

Product Range International 2017

PP/PE Plastic Piping Systems



List of abbreviations

ANSI	American National Standard	Tg	Malleable Iron
ASTM	American Society for Testing and	d	Pipe outside diameter
	Materials	FM	Fusion Method
BS	British Standard	DN	Nominal bore
DIN	Deutsche Industrie-Normen	PN	Nominal pressure at 20°C, water
IS0	International Standardization	kg	Weight in kilograms
	Organisation	g	Weight in grams
ABS	Acrylnitril Butadien Styrene	SP	Standard pack. The figure given
PVC-U	Polyvinyl Chloride		indicates the quantity of fittings
PVC-C	Polyvinyl Chloride chlorinated		contained in a standard pack
PP	Polypropylene, heat stabilised	GP	Gross pack. The figure given
PP-N	Polypropylene, Random		indicates the quantityof fittings
	copolymer unpigmented		contained in a gross pack
PE	Polyethylene	G	Pipe thread, not pressure tight
PVDF	Polyvinylidene fluoride		in the thread to ISO 228/1
EPDM	Ethylene Propylene Rubber	NPT	Taper male thread pressure tight in
FPM	Fluorine Rubber, e.g. Viton®		the thread to ANSI B 1.20.1
NBR	Nitrile Rubber	R	Taper male thread, pressure tight
IIR	Butyl Rubber		in the thread to ISO 7/DIN 2999/1
CSM	Chlore Sulphonyl Polythene, e.g.	Rc	Taper female thread, pressure tight
	Hypalon [®]		in the thread to ISO 7/1
CR	Chloroprene Rubber, e.g.	Rp	Parallel female thread, pressure
	Neoprene®		tight in the thread to ISO 7/DIN 999/1
PROGEF	GF of PP	Tr	Trapezoid thread
PTFE	Polytetrafluorethylene, e.g. Teflon®	SC	Size of hexagon bolts
UP-GF	Unsaturated polyester resin	S	A/F
	glassfibre reinforced	е	Wall thickness
St	Steel	AL	Number of bolt holes
Ms	Brass	®	Registered trade-mark

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PROGEF Standard



- PipesSocket Fusion SystemButt Fusion System

PROGEF® Standard

Pressure/temperature diagram for PP PP-H

The following pressure/temperature diagrams for PP-H pipes and fittings are valid for a lifetime of 25 years.

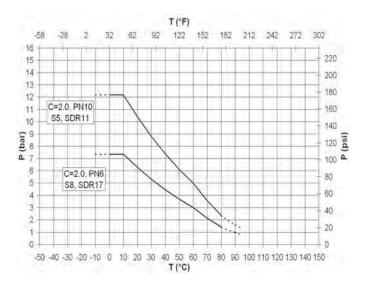
The design factor of 2.0 recommended by GF is incorporated.

They can be used for water or media resembling water, in other words, media which have no derating factor regarding the chemical resistance.

Remark: Please take into account the pressure/ temperature diagrams for valves and special fittings. Becauseof the construction and/or sealing material used, differences are possible when compared with pipes and fittings. This information can be found in the planning fundamentals of the relevant types of valves, respectively special fittings.

According to the 10 $^{\circ}$ C line in the hydrostatic strength curve for PP-H, a permissible pressure of 12.2 bar / 7.4 bar in the temperature range of -10 $^{\circ}$ to +10 $^{\circ}$ C for the PN10 / PN6 system can be applied.

In case of applications with temperatures in the range of the dotted lines please contact your GF representative.



- P Permissible pressure in bar, psi
- T Temperature in °C, °F

PROGEF Standard – System Specification

Material Beta PP-H 100 State-of-the-art PP (Beta Polypropylene Homopolymer) (Polypropylene) d 16 - d 225 d 250 - d 500 RAL 7032 pebble grey RAL 7032 pebble grey Colour Density ~0.90 g/cm3 (ISO 1183/ASTM D792) ~0.90 g/cm3 (ISO 1183 / ASTM D792) Surface tension 31 mJ/m² $24 \, mJ/m^2$ Linear expansion coefficient 0.16 mm/mK (DIN 53752) 0.16-0.18 mm/mK (DIN 53752) E-modulus 1300 N/mm² (ISO 527/ASTM D 790) 900 N/mm² (ISO 527/ASTM D 790) Thermal conductivity 0.23 W/mK (EN 12664) 0.23 W/mK (EN 12664) Surface resistivity > 10¹⁶ Ω (IEC 60093) $> 10^{16} \Omega$ (IEC 60093) Dimension d16-d500 in accordance to EN ISO 15494 Pipes/Fittings/Diaphragm and ball valves: Pressure Rating Pipes/Fittings: d 16 - d 225 SDR11, PN10, c = 2.0 d250 - d500 SDR11, PN10, c = 2.0d50-d225 SDR17.6, PN6, c=2.0d250-d500 SDR17.6, PN6, c=2.0Butterfly valves: d63-d225, PN10 / d280, PN8 / d315, PN8 From 0°C to 80°C (32°F-176°F) **Temperature Rating** Production Fittings: injection moulded or segment welded Pipes: extruded Valves: injection moulded Marking All components are embossed with a permanent identification during the production process to ensure full traceability: Lot No Material Dimension Pressure Rating Testing and Inspection Visual inspection (EN ISO 15494) Surface finish Dimension tolerance Pressure testing Full product range passed the Initial Type Test (ITT) FDA CFR 21 177.1520 Material- and Product USP 25 class VI (physiological non-toxic) Approvals/Conformance^[1] DIBt (Z-40.23-4, Z-40.23-264, Z - 40.23-265) DNV (K-2630, K - 2636) Loyd's Register (01/20030(E1)) Socket fusion (DVS 2207 - 11): d 16 - d 110 Welding Technology IR Plus, infrared fusion (DVS 2207-6): d20-d225 Butt fusion (DVS 2207-11): d20-d500 Documentation⁽²⁾ EN 10204 2.2 / EN 10204 3.1 Pipes and fittings bulk bagged **Packing Brand Name** Labeling **Product Description** Code Number Material Dimension CE-labeling (3) Approvals Main Applications PROGEF has been relied to be highly resistant to impact, abrasion and many chemicals. Suitable for industrial applications in chemical production, chemical distribution, galvanisation and power stations. [1] For thermoplastic material only (3) From 2008 on

(2) On request

PROGEF Standard Pipes, Fittings, Unions, Flanges and Flange Adaptors

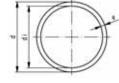
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PP-H Pipes

67 48 07

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PROGEF Standard pipe S5/SDR11 (PN10)

Model:

Material: PP-HDimension: DIN 8077

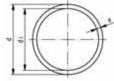
• Colour: RAL 7032 pebble grey

• Length: Lengths of 5 m

 * In these two sizes, stiffeners Code No. 727 900 006 (20 x 1.9) and 727 900 007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

d [mm]	PN	Code	kg/m	e [mm]	di [mm]
16		167 480 710	0.080	1.8	12.4
* 20	10		0.107	1.9	16.2
* 25	10		0.164	2.3	20.4
32	10		0.261	2.9	26.2
40	10	167 480 714	0.412	3.7	32.6
50	10		0.638	4.6	40.8
63	10		1.010	5.8	51.4
75	10		1.410	6.8	61.4
90	10		2.030	8.2	73.6
110	10	167 480 719	3.010	10.0	90.0
125	10		3.910	11.4	102.2
140	10		4.870	12.7	114.6
160	10		6.380	14.6	130.8
180	10		8.070	16.4	147.2
200	10	167 480 724	9.950	18.2	163.6
225		167 480 725	12.600	20.5	184.0
250	10		15.500	22.7	204.6
280	10		19.400	25.4	229.2
315	10		24.600	28.6	257.8
355	10	167 480 729	31.200	32.2	290.6
400	10		39.600	36.3	327.4
450	10		50.200	40.9	368.2
500	10	167 480 732	63.300	45.4	409.2

67 48 10



PROGEF Standard pipe S3.2/SDR7.4 (PN16)

Model:

• Material: Polypropylene (PP-H) DIN 8078

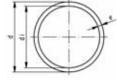
• Dimension: DIN 8077

• Colour: RAL 7032 pebble grey

• Length: Lengths of 5 m

· for socket fusion without stiffeners

67 48 06



PROGEF Standard pipe S8.3/SDR17.6 (PN6)

Model:

• Material: PP-H • Dimension: DIN 8077

Colour: RAL 7032 pebble grey
Length: Lengths of 5 m

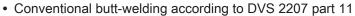
d	Code	kg/m	е	di
[mm]			[mm]	[mm]
50	167 480 680	0.422	2.9	44.2
63	167 480 681	0.659	3.6	55.8
75	167 480 682	0.935	4.3	66.4
90	167 480 683	1.330	5.1	79.8
110	167 480 684	1.990	6.3	97.4
125	167 480 685	2.550	7.1	110.8
140	167 480 686	3.200	8.0	124.0
160	167 480 687	4.170	9.1	141.8
180	167 480 688	5.250	10.2	159.6
200	167 480 689	6.500	11.4	187.2
225	167 480 690	8.190	12.8	199.4
250	167 480 691	10.100	14.2	221.6
280	167 480 692	12.600	15.9	248.2
315	167 480 693	16.000	17.9	279.2
355	167 480 694	20.300	20.1	314.8
400	167 480 695	25.700	22.7	354.6
450	167 480 696	32.500	25.5	399.0
500	167 480 697	40.200	28.4	443.2

Butt fusion fittings

PROGEF Standard bend 90° S5/SDR11

Model:





• IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

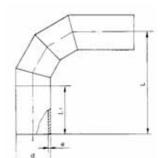
¹ Material: PP-R



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d	FM	Code	kg	L	L1	R	е
[mm]	"	Jour	Ng	[mm]	[mm]	[mm]	[mm]
20	IR	727 018 606	0.008	38	23	15	1.9
25	IR	727 018 607	0.013	42	23	19	2.3
32	IR	727 018 608	0.022	46	22	24	2.9
40	IR	727 018 609	0.040	51	21	30	3.7
50	IR	727 018 610	0.067	58	21	37	4.6
63	IR	727 018 611	0.117	66	21	45	5.8
75	IR	727 018 612	0.232	100	20	90	6.8
90	IR	727 018 613	0.337	100	20	90	8.2
110	IR	727 018 614	0.701	141	25	130	10.0
125	IR	727 018 490	0.927	140	15	125	11.4
140	IR	727 018 491	1.260	155	15	140	12.7
160	IR	727 018 492	2.035	175	15	160	14.6
180	IR	727 018 493	2.669	195	15	180	16.4
200	IR	727 018 494	3.574	215	15	200	18.2
225	IR	727 018 495	5.133	245	20	225	20.5
250		727 018 521	6.351	256	48	232	22.7
280		727 018 522	9.398	286	48	262	25.4
315		727 018 523	12.959	321	48	297	28.6
1 355		727 018 574	19.400	385	38	355	32.2
1400		727 018 575	28.453	438	41	400	36.3

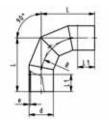
Bend 90°, PP-H S5/SDR11



- For IR, butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d	Code	L	L1	е
[mm]		[mm]	[mm]	[mm]
110	700 649 384	315	150	10,0
125	700 649 385	338	150	11,4
140	700 649 386	360	150	12,8
160	700 649 387	390	150	14,6
180	700 649 388	420	150	16,4
200	700 649 389	450	150	18,2
225	700 649 390	488	150	20,5
250	700 649 391	625	250	22,8
280	700 649 392	670	250	25,5
315	700 649 393	773	300	28,7
355	700 649 394	833	300	32,3
400	700 649 395	900	300	36,4





PROGEF Standard bend 90° S5/SDR11

Model:

Material: PP-H

• Conventional butt-welding according to DVS 2207 part 11

• Production process: segment welded

• Segment-welded fittings have a pressure reduction factor of 0.8

d [mm]	Code	kg	L [mm]	L1 [mm]	R [mm]	e [mm]
	727 018 576 727 018 577	85.300 121.940	975 1100		675 750	40,9 45,4





PROGEF Standard bend 90° S8.3/SDR17.6

Model:

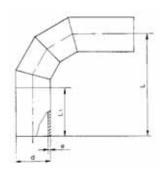
• Material: PP-H

· Conventional butt-welding according to DVS 2207 part 11

• IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

¹ Material: PP-R

d	FM	Code	kg	L	L1	R	e []
[mm]				[mm]	[mm]	[mm]	[mm]
50	IR	727 018 635	0.050	58	21	37	2.9
63	IR	727 018 636	0.081	66	21	45	3.6
75	IR	727 018 637	0.164	100	20	90	4.3
90	IR	727 018 638	0.241	100	20	90	5.1
110	IR	727 018 639	0.484	141	25	130	6.3
125	IR	727 018 440	0.638	140	15	125	7.1
140	IR	727 018 441	1.065	155	15	140	8.0
160	IR	727 018 442	1.309	175	15	160	9.1
180	IR	727 018 443	2.138	195	15	180	10.2
200	IR	727 018 444	2.378	215	15	200	11.4
225	IR	727 018 445	3.298	245	20	225	12.8
250		727 018 421	4.359	256	48	232	14.2
280		727 018 422	6.696	286	48	262	15.9
315		727 018 423	8.580	321	48	297	17.9
1355		727 018 549	13.300	355	15	355	20.1
1400		727 018 550	18.615	400	25	400	22.7

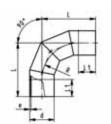


Bend 90°, PP-H S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d [mm]	Code	L [mm]	L1 [mm]	e [mm]
110	700 649 396	315	150	6,3
125	700 649 397	338	150	7,1
140	700 649 398	360	150	8,0
160	700 649 399	390	150	9,1
180	700 649 400	420	150	10,2
200	700 649 401	450	150	11,4
225	700 649 402	488	150	12,8
250	700 649 403	625	250	14,2
280	700 649 404	670	250	15,9
315	700 649 405	773	300	17,9
355	700 649 406	833	300	20,1
400	700 649 407	900	300	22,7



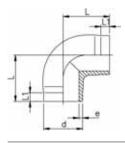


PROGEF Standard bend 90° S8.3/SDR17.6

Model:

- Material: PP-H
- · Conventional butt-welding according to DVS 2207 part 11
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

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PROGEF Standard elbow 90° S5/SDR11

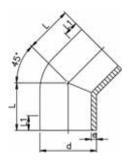
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

		-				
d	FM	Code	kg	L	L1	е
[mm]				[mm]	[mm]	[mm]
20	IR	727 108 506	0.008	38	25	1.9
25	IR	727 108 507	0.012	42	26	2.3
32	IR	727 108 508	0.022	46	27	2.9
40	IR	727 108 509	0.045	51	22	3.7
50	IR	727 108 510	0.080	58	23	4.6
63	IR	727 108 511	0.138	66	21	5.8

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PROGEF Standard elbow 45° S5/SDR11

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Long version for d250, d280 and d315
- ¹ Material: PP-R

· wate	riai: i	PP-K				
d	FM	Code	kg	L	L1	е
[mm]				[mm]	[mm]	[mm]
20	IR	727 158 506	0.006	32	24	1.9
25	IR	727 158 507	0.010	34	25	2.3
32	IR	727 158 508	0.021	36	25	2.9
40	IR	727 158 509	0.033	39	25	3.7
50	IR	727 158 510	0.054	42	26	4.6
63	IR	727 158 511	0.097	47	29	5.8
75	IR	727 158 512	0.137	49	29	6.8
90	IR	727 158 513	0.222	57	34	8.2
110	IR	727 158 514	0.412	70	43	10.0
125	IR	727 158 515	0.570	79	48	11.4
140	IR	727 158 516	0.854	88	55	12.7
160	IR	727 158 517	1.256	100	60	14.6
200	IR	727 158 519	2.448	124	75	18.2
225	IR	727 158 520	3.495	140	85	20.5
1 250		727 158 521	7.890	225	133	22.7
1 280		727 158 522	10.170	235	143	25.4
1 315		727 158 523	11.690	255	154	28.6

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PROGEF Standard bend 45° S5/SDR11

Model:

- · Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

d	Code	kg	L	L1	е	R
[mm]			[mm]	[mm]	[mm]	[mm]
355	727 158 524	32.300	520	300	32,2	532.5
400	727 158 525	43.200	548	300	36,3	600.0
450	727 158 526	57.700	580	300	40,9	675.0
500	727 158 527	87.200	665	350	45,4	750.0

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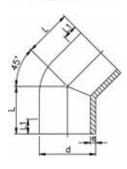


Model:



- · Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- ¹ Material: PP-R
- *Machined from S5/SDR11

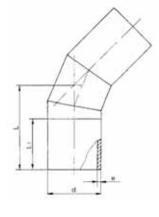
d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
* 50	IR	727 158 535	0.042	42	26	2,9
* 63	IR	727 158 536	0.081	47	29	3,6
75	IR	727 158 412	0.099	49	29	4,3
90	IR	727 158 413	0.164	57	34	5,1
110	IR	727 158 414	0.286	70	43	6,3
* 125	IR	727 158 540	0.570	79	48	7,1
* 140	IR	727 158 541	0.721	88	55	8,0
* 160	IR	727 158 542	1.107	100	60	9,1
* 200	IR	727 158 544	2.225	124	75	11,4
* 225	IR	727 158 545	3.194	140	85	12,8
1 250		727 158 546	4.970	225	133	14,2
1 280		727 158 547	7.130	235	143	15,9
1 315		727 158 548	9.600	255	154	17.9



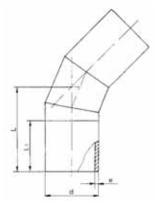
Bend 45°, PP-H S5/SDR11



- Reduction factor = 0,8
- · big dimensions on request



d	Code	L	L1	е
[mm]		[mm]	[mm]	[mm]
110	700 649 444	218	150	10,0
125	700 649 445	228	150	11,4
140	700 649 446	237	150	12,8
160	700 649 447	249	150	14,6
180	700 649 448	262	150	16,4
200	700 649 449	274	150	18,2
225	700 649 450	290	150	20,5
250	700 649 451	412	250	22,8
280	700 649 452	424	250	25,5
315	700 649 453	498	300	28,7
355	700 649 454	520	300	32,3
400	700 649 455	548	300	36,4



Bend 45°, PP-H S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,8
- · big dimensions on request

d	Code	L	L1	е
[mm]		[mm]	[mm]	[mm]
110	700 649 432	218	150	6,3
125	700 649 433	228	150	7,1
140	700 649 434	237	150	8,0
160	700 649 435	249	150	9,1
180	700 649 436	262	150	10,2
200	700 649 437	274	150	11,4
225	700 649 438	290	150	12,8
250	700 649 439	412	250	14,2
280	700 649 440	424	250	15,9
315	700 649 441	498	300	17,9
355	700 649 442	520	300	20,1
400	700 649 443	548	300	22,7

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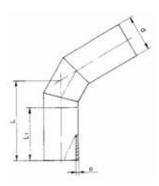




PROGEF Standard bend 45° S8.3/SDR17.6

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

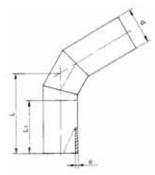
d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	R [mm]
	727 158 549 727 158 550	21.000 28.100	520 548	300 300	20,1	
450	727 158 551	37.400	580	300	22,7 25,5	675.0
500	727 158 552	52.600	665	350	28,4	750.0



Bend 60°, PP-H S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

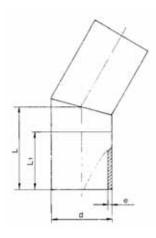
d	Code	L	L1	е
[mm]		[mm]	[mm]	[mm]
110	700 649 420	245	150	10,0
125	700 649 421	258	150	11,4
140	700 649 422	271	150	12,8
160	700 649 423	288	150	14,6
180	700 649 424	305	150	16,4
200	700 649 425	323	150	18,2
225	700 649 426	345	150	20,5
250	700 649 427	466	250	22,8
280	700 649 428	492	250	25,5
315	700 649 429	576	300	28,7
355	700 649 430	608	300	32,3
400	700 649 431	646	300	36,4



Bend 60°, PP-H S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0.8
- big dimensions on request

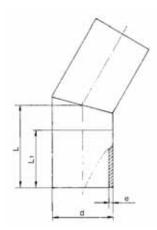
d	Code	L	L1	е
[mm]		[mm]	[mm]	[mm]
110	700 649 408	245	150	6,3
125	700 649 409	258	150	7,1
140	700 649 410	271	150	8,0
160	700 649 411	288	150	9,1
180	700 649 412	305	150	10,2
200	700 649 413	323	150	11,4
225	700 649 414	345	150	12,8
250	700 649 415	466	250	14,2
280	700 649 416	492	250	15,9
315	700 649 417	576	300	17,9
355	700 649 418	608	300	20,1
400	700 649 419	646	300	22,7



Bend 30°, PP-H S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d	Code	L	L1	е
[mm]		[mm]	[mm]	[mm]
110	700 649 469	194	150	10,0
125	700 649 470	200	150	11,4
140	700 649 471	206	150	12,8
160	700 649 472	214	150	14,6
180	700 649 473	222	150	16,4
200	700 649 474	230	150	18,2
225	700 649 475	241	150	20,5
250	700 649 476	350	250	22,8
280	700 649 477	362	250	25,5
315	700 649 478	428	300	28,7
355	700 649 479	443	300	32,3
400	700 649 480	461	300	36,4



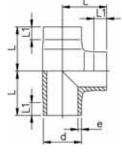
Bend 30°, PP-H S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d	Code	L	L1	е
[mm]		[mm]	[mm]	[mm]
110	700 649 457	194	150	6,3
125	700 649 458	200	150	7,1
140	700 649 459	206	150	8,0
160	700 649 460	214	150	9,1
180	700 649 461	222	150	10,2
200	700 649 462	230	150	11,4
225	700 649 463	241	150	12,8
250	700 649 464	350	250	14,2
280	700 649 465	362	250	15,9
315	700 649 466	428	300	17,9
355	700 649 467	443	300	20,1
400	700 649 468	461	300	22,7

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PROGEF Standard tee 90° equal S5/SDR11

Model:

• Material: PP-H

• Conventional butt-welding according to DVS 2207 part 11

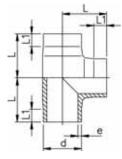
• IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

¹ Material: PP-R

		1				
d	FM	Code	kg	L	L1	е
[mm]				[mm]	[mm]	[mm]
	I.D.	707 000 500	0.044	20	0.4	4.0
20	IR	727 208 506	0.011	38	24	1.9
25	IR	727 208 507	0.018	42	26	2.3
32	IR	727 208 508	0.032	46	26	2.9
40	IR	727 208 509	0.062	51	22	3.7
50	IR	727 208 510	0.105	58	22	4.6
63	IR	727 208 511	0.186	66	21	5.8
75	IR	727 208 512	0.293	75	20	6.8
90	IR	727 208 513	0.521	90	20	8.2
110	IR	727 208 514	0.928	110	20	10.0
125	IR	727 208 515	1.347	125	25	11.4
140	IR	727 208 516	1.923	140	28	12.7
160	IR	727 208 517	2.844	160	28	14.6
180	IR	727 208 568	4.844	194	74	16.4
200	IR	727 208 519	5.579	200	35	18.2
225	IR	727 208 520	7.812	220	35	20.5
250		727 208 571	12.380	276	92	22.7
280		727 208 572	17.735	318	110	25.4
315		727 208 573	18.214	353	118	28.6
₁ 355		727 208 574	31.100	345	103	32.2
1400		727 208 575	38.000	360	105	36.3
450		727 208 576	58.000	419	135	40.9
500		727 208 577	73.000	465	160	45.4

27 20 85





PROGEF Standard tee 90° equal S8.3/SDR17.6

Model:

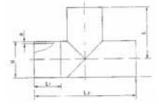
• Material: PP-H

• Conventional butt-welding according to DVS 2207 part 11

• IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

¹ Material: PP-R

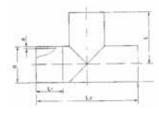
IVICIO	man.			,	,	,
d	FM	Code	kg	L	L1	е
[mm]				[mm]	[mm]	[mm]
50	IR	727 208 535	0.079	59	26	2,9
63	IR	727 208 536	0.178	73	31	3,6
75	IR	727 208 412	0.212	75	20	4,3
90	IR	727 208 413	2.200	90	20	5,1
110	IR	727 208 414	0.705	110	20	6,3
125	IR	727 208 540	1.077	125	30	7,1
140	IR	727 208 541	1.478	140	35	8,0
160	IR	727 208 542	2.264	160	43	9,1
180	IR	727 208 543	3.343	194	70	10,2
200	IR	727 208 544	4.902	210	70	11,4
225	IR	727 208 545	6.889	235	82	12,8
250		727 208 546	9.325	276	92	14,2
280		727 208 547	13.463	318	110	15,9
315		727 208 548	18.000	353	118	17,9
1 355		727 208 549	21.000	345	103	20,1
1400		727 208 550	26.000	360	105	22,7
450		727 208 551	44.400	419	135	25,5
500		727 208 552	60.284	476	165	28,4



Tees 90°, equal, PP-H S5/SDR11

- For IR, butt- and electro fusion
- Reducing factor = 0,6
- big dimensions on request

d [mm]	Code	L [mm]	L1 [mm]	L2 [mm]	e [mm]
225	700 649 481	265	150	530	20,5
250	700 649 482	375	250	750	22,8
280	700 649 483	390	250	780	25,5
315	700 649 484	460	300	920	28,7
355	700 649 485	480	300	960	32,3
400	700 649 486	500	300	1000	36,4



Tees 90°, equal, PP-H S8/SDR17.6

- For IR, butt- and electro fusion
- Reducing factor = 0,6
- big dimensions on request

d	Code	L	L1	L2	е
[mm]		[mm]	[mm]	[mm]	[mm]
225	700 649 487	265	150	530	12,8
250	700 649 488	375	250	750	14,2
280	700 649 489	390	250	780	15,9
315	700 649 490	460	300	920	17,9
355	700 649 491	480	300	960	20,1
400	700 649 492	500	300	1000	22,7

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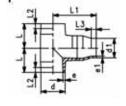
PROGEF Standard tee 90° reduced S5/SDR11

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

¹with IR welded reducer

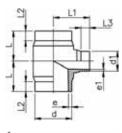
	r	
1	1 .	10.00
þ		_L3
1	11	10

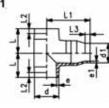


VVILII II	· wci	aca i	Caacci							
d	d1	FM	Code	kg	L	L1	L2	L3	е	e1
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
63	32	IR	727 208 351	0.161	65	70	25	25	5.8	2.9
63	50	IR	727 208 352	0.170	65	70	25	25	5.8	4.6
75	32	IR	727 208 353	0.238	70	75	25	25	6.8	2.9
75	50	IR	727 208 354	0.249	70	75	25	25	6.8	4.6
75	63	IR	727 208 355	0.258	70	75	25	25	6.8	5.8
90	50	IR	727 208 357	0.420	80	85	25	25	8.2	4.6
90	63	IR	727 208 358	0.428	80	85	25	25	8.2	5.8
90	75	IR	727 208 359	0.430	80	85	25	25	8.2	6.8
110	32	IR	727 208 360	0.652	90	95	30	25	10.0	2.9
110	50	IR	727 208 361	0.659	90	95	30	25	10.0	4.6
110	63	IR	727 208 362	0.665	90	95	30	25	10.0	5.8
110	75	IR	727 208 363	0.681	90	95	30	25	10.0	6.8
110	90	IR	727 208 364	0.701	90	95	30	25	10.0	8.2
1 125	63	IR	727 208 365	1.680	125	232	25	16	11.4	5.8
1 125	90	IR	727 208 366	1.520	125	228	25	22	11.4	8.2
1 125	110	IR	727 208 367	1.700	125	220	25	30	11.4	10.0
1 140	75	IR	727 208 368	2.140	140	258	28	19	12.7	6.8
1 140	90	IR	727 208 369	2.150	140	250	28	22	12.7	8.2
1 140	110	IR	727 208 370	2.380	140	245	28	33	12.7	10.0
160	63	IR	727 208 371	2.130	142	135	50	30	14.6	5.8
160	75	IR	727 208 372	2.143	142	135	50	30	14.6	6.8
160	90	IR	727 208 373	2.148	142	135	50	30	14.6	8.2
160	110	IR	727 208 374	2.186	142	135	50	30	14.6	10.0
1 160	125	IR	727 208 375	3.500	160	279	28	32	14.6	11.4
1 200	160	IR	727 208 385	6.632	200	295	35	40	18.2	14.6
1 200	180	IR	727 208 386	6.200	200	345	35	45	18.2	16.4
225	90	IR	727 208 388	4.576	155	165	40	30	20.5	8.2
225	110	IR	727 208 389	4.624	155	165	40	30	20.5	10.0
225	160	IR		4.685	155	165	40	30	20.5	14.6
1 250	160		727 208 393	4.530	276	424	92	55	22.7	14.6

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PROGEF Standard tee 90° reduced S8.3/SDR17.6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

¹with IR welded reducer

* Branch SDR11

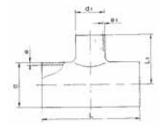
d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
	Liinii				firming	firming	[iiiiii]	[iiiiii]	firming	[iiiiii]
* 63	32	IR	727 208 301	0.120	65	70	25	25	3,6	2,9
63	50	IR	727 208 302	0.124	65	70	25	25	3,6	2,9
* 75	32	IR	727 208 303	0.178	70	75	25	25	4,3	2,9
75	50	IR	727 208 304	0.182	70	75	25	25	4,3	2,9
75	63	IR	727 208 305	0.190	70	75	25	25	4,3	3,6
90	50	IR	727 208 307	0.305	80	85	25	25	5,1	2,9
90	63	IR	727 208 308	0.315	80	85	25	25	5,1	3,6
90	75	IR	727 208 309	0.320	80	85	25	25	5,1	4,3
* 110	32	IR	727 208 310	0.489	90	95	30	25	6,3	2,9
110	50	IR	727 208 311	0.490	90	95	30	25	6,3	2,9
110	63	IR	727 208 312	0.491	90	95	30	25	6,3	3,6
110	75	IR	727 208 313	0.500	90	95	30	25	6,3	4,3
110	90	IR	727 208 314	0.514	90	95	30	25	6,3	5,1
160	63	IR	727 208 321	1.535	142	135	50	30	9,1	3,6
160	75	IR	727 208 322	1.550	142	135	50	30	9,1	4,3
160	90	IR	727 208 323	1.567	142	135	50	30	9,1	5,1
160	110	IR	727 208 324	1.577	142	135	50	30	9,1	6,3
225	90	IR	727 208 338	3.350	155	165	40	30	12,8	5,1
225	110	IR	727 208 339	3.330	155	165	40	30	12,8	6,3
225	160	IR	727 208 341	3.427	155	165	40	30	12,8	9,1

Tee 90°, reduced, PP-H S5/SDR11



- For IR, butt- and electro fusionReducing factor = 0,6
- big dimensions on request

d [mm]	d1 [mm]	Code	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
225 225 225 225 225 225	63 75 90 110 125	700 649 493 700 649 494 700 649 495 700 649 496 700 649 497	363 375 390 410 425	238 238 238 238 238	20,5 20,5 20,5 20,5 20,5	5,8 6,9 8,2 10,0 11,4	
225	140	700 649 498	440	238	20,5	12,8	
225	160	700 649 499	460	238	20,5	14,6	
250	75	700 649 500	475	250	22,8	6,9	
250	90	700 649 501	490	250	22,8	8,2	
250	110	700 649 502	510	250	22,8	10,0	
250	125	700 649 503	525	250	22,8	11,4	
250	140	700 649 504	540	250	22,8	12,8	
250	160	700 649 505	560	250	22,8	14,6	
250	180	700 649 506	580	275	22,8	16,4	
280	75	700 649 507	475	265	25,5	6,9	
280	90	700 649 508	490	265	25,5	8,2	
280	110	700 649 509	510	265	25,5	10,0	
280	125	700 649 510	525	265	25,5	11,4	
280	140	700 649 511	540	265	25,5	12,8	
280	160	700 649 512	560	265	25,5	14,6	
280	180	700 649 513	580	290	25,5	16,4	
280	200	700 649 514	600	290	25,5	18,2	
315	90	700 649 515	490	283	28,7	8,2	
315	110	700 649 516	510	283	28,7	10,0	
315	125	700 649 517	525	283	28,7	11,4	
315	140	700 649 518	540	283	28,7	12,8	
315	160	700 649 519	560	283	28,7	14,6	
315	180	700 649 520	580	308	28,7	16,4	
315	200	700 649 521	600	308	28,7	18,2	
315	225	700 649 523	625	308	28,7	20,5	
355	110	700 649 524	510	303	32,3	10,0	
355	125	700 649 525	525	303	32,3	11,4	
355	140	700 649 526	540	303	32,3	12,8	
355	160	700 649 527	560	303	32,3	14,6	
355	180	700 649 528	580	328	32,3	16,4	
355	200	700 649 529	600	328	32,3	18,2	
355	225	700 649 530	625	328	32,3	20,5	
355	250	700 649 531	650	378	32,3	22,8	
400	110	700 649 532	510	325	36,4	10,0	
400	125	700 649 533	525	325	36,4	11,4	
400	140	700 649 534	540	325	36,4	12,8	
400	160	700 649 535	560	325	36,4	14,6	
400	180	700 649 536	580	350	36,4	16,4	
400	200	700 649 537	600	350	36,4	18,2	
400	225	700 649 538	625	350	36,4	20,5	
400	250	700 649 539	650	400	36,4	22,8	
400	280	700 649 540	680	400	36,4	25,5	

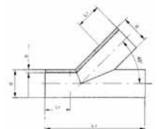


Tee 90°, reduced, PP-H S8/SDR17.6

- For IR, butt- and electro fusion
 Reducing factor = 0,6
 big dimensions on request

d	d1	Code	L	L1	е	e1	
[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	
225	63	700 649 541	363	238	12,8	3,6	
225	75	700 649 542	375	238	12,8	4,3	
225	90	700 649 543	390	238	12,8	5,1	
225	110	700 649 544	410	238	12,8	6,3	
225	125	700 649 545	425	238	12,8	7,1	
225		700 649 546	440	238	12,8	8,0	

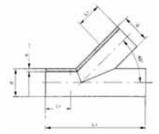
	-14	Ondo		1.4		-4				
d [mm]	d1 [mm]	Code	[mm]	L1 [mm]	e [mm]	e1 [mm]				
225	160	700 649 547	460	238	12,8	9,1				
250	75	700 649 548	475	250	14,2	4,3				
250	90	700 649 549	490	250	14,2	5,1	1			
250	110	700 649 550	510	250	14,2	6,3				
250	125	700 649 551	525	250	14,2	7,1				
250	140	700 649 552	540	250	14,2	8,0				
250	160	700 649 553	560	250	14,2	9,1				
250	180	700 649 554	580	275	14,2	10,2				
280	75	700 649 555	475	265	15,9	4,3				
280	90	700 649 556	490	265	15,9	5,1				
280	110	700 649 557	510	265	15,9	6,3				
280	125	700 649 558	525	265	15,9	7,1				
280	140	700 649 559	540	265	15,9	8,0)			
280	160	700 649 560	560	265	15,9	9,1				
280	180	700 649 561	580	290	15,9	10,2	2			
280	200	700 649 562	600	290	15,9	11,4				
315	90	700 649 563	490	283	17,9	5,1				
315	110	700 649 564	510	283	17,9	6,3				
315	125	700 649 565	525	283	17,9	7,1				
315	140	700 649 566	540	283	17,9	8,0				
315	160	700 649 567	560	283	17,9	9,1				
315	180	700 649 568	580	308	17,9	10,2				
315	200	700 649 569	600	308	17,9	11,4				
315	225	700 649 570	625	308	17,9	12,8				
355	110	700 649 571	510	303	20,1	6,3				
355	125	700 649 571	525	303	20,1	7,1				
355	140	700 649 573	540	303	20,1	8,0				
355	160	700 649 574	560	303	20,1	9,1				
355	180	700 649 575	580	328	20,1	10,2				
355	200	700 649 576	600	328	20,1	11,4				
355	200	700 649 576	625	328	20,1	11,4				
355	250	700 649 577	650	378	20,1	14,2				
400	110	700 649 576	510	325	22,7	6,3				
400	125	700 649 579	525	325	22,7	7,1				
400	140	700 649 581	540	325	22,7	8,0				
400	160	700 649 582	560	325	22,7	9,1				
400	180	700 649 583	580	350	22,7	10,2				
400 400	200	700 649 584	600	350	22,7	11,4				
	225	700 649 585	625	350	22,7	12,8				
400 400	250	700 649 586 700 649 587	650 680	400	22,7	14,2 15.0				
400	280	700 649 587	680	400	22,7	15,9	'			



Branch 45°, PP-H S5/SDR11

- For IR, butt- and electro fusionReduction factor = 0,5

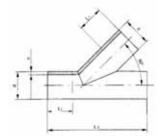
d	Code	L1	L2	е
[mm]		[mm]	[mm]	[mm]
110	700 649 636	150	520	10,0
125	700 649 637	150	520	11,4
140	700 649 638	150	570	12,8
160	700 649 639	150	640	14,6
180	700 649 640	150	700	16,4
200	700 649 641	150	800	18,2
225	700 649 642	150	800	20,5
250	700 649 643	250	1000	22,8
280	700 649 644	250	1000	25,5
315	700 649 645	300	1300	28,7
355	700 649 646	300	1500	32,3
400	700 649 647	300	1500	36,4



Branch 45°, PP-H S8/SDR17.6

- For IR, butt- and electro fusion
 Reduction factor = 0,5

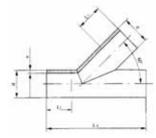
d	Code	L1	L2	е
[mm]		[mm]	[mm]	[mm]
110	700 649 648	150	520	6,3
125		150	520	7,1
140	700 649 650	150	570	8,0
160	700 649 651	150	640	9,1
180	700 649 652	150	700	10,2
200	700 649 653	150	800	11,4
225	700 649 654	150	800	12,8
250	700 649 655	250	1000	14,2
280	700 649 656	250	1000	15,9
315	700 649 657	300	1300	17,9
355	700 649 658	300	1500	20,1
400	700 649 659	300	1500	22,7



Branch 60°, PP-H S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,5

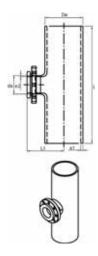
	110440111140101 0,0										
d [mm]	Code	L1 [mm]	L2 [mm]	e [mm]							
[]		[ri]	[]	[ri]							
110	700 649 660	150	520	10,0							
125	700 649 661	150	520	11,4							
140	700 649 662	150	570	12,8							
160	700 649 663	150	640	14,6							
180	700 649 664	150	700	16,4							
200	700 649 665	150	800	18,2							
225	700 649 666	150	800	20,5							
250	700 649 667	250	1000	22,8							
280	700 649 668	250	1000	25,5							
315	700 649 669	300	1300	28,7							
355	700 649 670	300	1500	32,3							
400	700 649 671	300	1500	36,4							
	1	1	1	1							



Branch 60°, PP-H S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,5

d	Code	L1	L2	е
[mm]		[mm]	[mm]	[mm]
110	700 649 672	150	520	6,3
125	700 649 673	150	520	7,1
140	700 649 674	150	570	8,0
160	700 649 675	150	640	9,1
180	700 649 676	150	700	10,2
200	700 649 677	150	800	11,4
225	700 649 678	150	800	12,8
250	700 649 679	250	1000	14,2
280	700 649 680	250	1000	15,9
315	700 649 681	300	1300	17,9
355	700 649 682	300	1500	20,1
400	700 649 683	300	1500	22,7

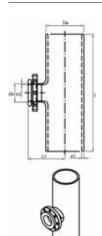


Revision Tees 90°, PP-H SDR11

Model

- Flued and butt fusion according to DVS2207
- Backing Flanges to ISO 7005, EN 1092, DIN 2501, bolt circle PN 10
- Reducing factor = 0,6
- · big dimensions on request

d [mm]	d1 [mm]	PN	Code	L [mm]	L1 [mm]	e1 [mm]	e2 [mm]
110	110	10	700 665 628	500	236	10,0	10,0
125	125	10	700 665 629	500	248	11,4	11,4
140	140	10	700 665 630	500	265	12,7	12,7
160	110	10	700 665 631	500	278	14,6	10,0
180	110	10	700 665 632	500	350	16,4	10,0
200	140	10	700 665 633	500	350	18,2	12,7
225	140	10	700 665 634	560	400	20,5	12,7
250	160	10	700 665 635	750	450	22,7	14,6
280	225	10	700 665 636	750	350	25,4	20,5
315	225	10	700 665 637	850	400	28,6	20,5
355	225	10	700 665 638	950	450	32,2	20,5
400	225	10	700 665 639	1000	450	36,3	20,5

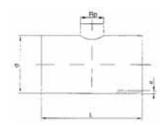


Revision Tees 90°, PP-H SDR17.6

Model:

- Flued and butt fusion according to DVS2207
- Backing Flanges to ISO 7005, EN 1092, DIN 2501, bolt circle PN 10
- Reducing factor = 0,6
- big dimensions on request

d [mm]	d1 [mm]	PN	Code	L [mm]	L1 [mm]	e1 [mm]	e2 [mm]
110	110	6	700 647 267	500	236	6,3	6,3
125	125	6	700 647 268	500	248	7,1	7,1
140	140	6	700 647 269	500	265	8,0	8,0
160	110	6	700 647 270	500	278	9,1	6,3
180	110	6	700 665 644	500	350	10,2	6,3
200	140	6	700 665 645	500	350	11,4	8,0
225	140	6	700 665 646	560	400	12,8	8,0
250	160	6	700 665 647	750	450	14,2	9,1
280	225	6	700 665 648	750	350	15,9	12,8
315	225	6	700 665 649	850	400	17,9	12,8
355	225	6	700 665 650	950	450	20,1	12,8
400	225	6	700 665 651	1000	450	22,7	12,8
450	315	6	700 665 652	1100	500	25,5	17,9
500	315	6	700 665 653	1200	500	28,4	17,9
560	315	6	700 665 654	1300	550	31,7	17,9
630	315	6	700 665 655	1450	550	35,7	17,9



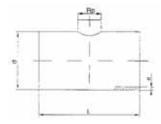
Saddle-Tee, PP-H S5/SDR11 Outlet with female thread Rp, welded

- For IR, butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d [mm]	Thread 1 Code	Thread 11/4 Code	L [mm]	e [mm]
110	700 649 588	700 649 600	260	10,0
125	700 649 589	700 649 601	260	11,4
140	700 649 590	700 649 602	260	12,8
160	700 649 591	700 649 603	260	14,6
180	700 649 592	700 649 604	360	16,4
200	700 649 593	700 649 605	360	18,2
225	700 649 594	700 649 606	360	20,5
250	700 649 595	700 649 607	360	22,8
280	700 649 596	700 649 608	360	25,5

+GF+

d [mm]	Thread 1 Code	Thread 11/4 Code	L [mm]	e [mm]
355	700 649 597 700 649 598	700 649 610	360 460	28,7 32,3
400	700 649 599	700 649 611	460	36,4



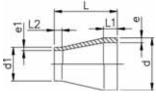
Saddle-Tee, PP-H S8/SDR17.6 Outlet with female thread Rp, welded

- For IR, butt- and electro fusion
- Reduction factor = 0.8
- big dimensions on request

d	Thread 1"	Thread 11/4"	L	е
[mm]	Code	Code	[mm]	[mm]
110	700 649 612	700 649 624	260	6,3
125	700 649 613	700 649 625	260	7,1
140	700 649 614	700 649 626	260	8,0
160	700 649 615	700 649 627	260	9,1
180	700 649 616	700 649 628	360	10,2
200	700 649 617	700 649 629	360	11,4
225	700 649 618	700 649 630	360	12,8
250	700 649 619	700 649 631	360	14,2
280	700 649 620	700 649 632	360	15,9
315	700 649 621	700 649 633	360	17,9
355	700 649 622	700 649 634	460	20,1
400	700 649 623	700 649 635	460	22,7

27 90 89

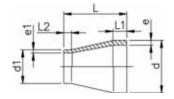




PROGEF Standard reducer S5/SDR11

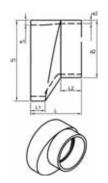
- Material: PP-H
- · Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- ¹ Material: PP-R

d	d1	FM	Code	kg	L	L1	L2	е	e1	
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	
25	20	IR	727 908 537	0.007	50	20	20	2.3	1.9	
32	20	IR	727 908 542	0.010	50	20	20	2.9	1.9	
32	25	IR	727 908 541	0.010	50	20	20	2.9	2.3	
40	20	IR	727 908 548	0.016	58	20	23	3.7	1.9	
40	25	IR	727 908 547	0.016	55	20	20	3.7	2.3	
40	32	IR	727 908 546	0.018	55	20	20	3.7	2.9	
50	25	IR		0.024	60	20	20	4.6	2.3	
50	32	IR		0.027	60	20	20	4.6	2.9	
50	40	IR		0.030	60	20	20	4.6	3.7	
63	32	IR	727 908 560	0.043	65	20	20	5.8	2.9	
63	40	IR	727 908 559	0.047	65	20	20	5.8	3.7	
63	50	IR	727 908 558	0.051	65	20	20	5.8	4.6	
75	40	IR		0.062	68	20	20	6.8	3.7	
75	50	IR		0.071	65	20	20	6.8	4.6	
75	63	IR	727 908 564	0.075	65	20	20	6.8	5.8	
90	63	IR	727 908 571	0.115	75	22	19	8.2	5.8	
90	75	IR	727 908 570	0.130	75	22	19	8.2	6.8	
110	75	IR	727 908 577	0.215	90	28	18	10.0	6.8	
110	90	IR	727 908 576	0.225	90	28	30	10.0	8.2	
125	110	IR	727 908 580	0.335	100	32	30	11.4	10.0	
140	110	IR	727 908 585	0.423	110	33	29	12.7	10.0	
140	125	IR	727 908 584	0.462	110	34	30	12.7	11.4	
160	110	IR		0.586	120	39	27	14.6	10.0	
160	140	IR		0.647	120	40	35	14.6	12.7	
180	90	IR	727 908 978	0.968	157	45	22	16.4	8.8	
180	110	IR	727 908 977	0.987	157	45	28	16.4	10.0	
180	125	IR	727 908 976	0.890	136	45	32	16.4	11.4	
180	140	IR	727 908 975	0.917	136	45	35	16.4	12.7	
180	160	IR		1.031	136	45	35	16.4	14.6	
200	160	IR	727 908 592	1.149	145	50	40	18.2	14.6	
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d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]	
200	180	IR	727 908 979	1.350	151	50	45	18.2	16.4	
225	110	IR	727 908 595	1.485	160	55	35	20.5	10.0	
225	160	IR	727 908 596	1.563	160	55	40	20.5	14.6	
225	180	IR	727 908 983	1.893	171	55	45	20.5	16.4	
225	200	IR	727 908 597	1.723	160	55	50	20.5	18.2	
250	160		727 908 990	1.483	194	60	55	22.7	14.6	
250	225		727 908 987	2.592	182	60	55	22.7	20.5	
1280	225		727 908 992	1.854	105	30	20	25.4	20.5	
1 280	250		727 908 991	1.311	70	30	18	25.4	22.7	
₁315	225		727 908 997	2.857	130	30	20	28.6	20.5	
₁315	250		727 908 996	3.500	100	30	20	28.6	22.7	
₁315	280		727 908 995	1.577	63	30	18	28.6	25.4	
¹ 355	250		727 908 963	5.490	245	90	60	32.3	22.7	
1355	280		727 908 962	5.462	245	90	70	32.2	25.4	
₁355	315		727 908 961	3.700	245	90	80	32.2	28.6	
1400	315		727 908 966	5.300	260	95	80	36.3	28.6	
1400	355		727 908 965	4.800	260	95	90	36.3	32.2	
450	280		727 908 960	9.000	230	60	70	40.9	25.4	
450	315		727 908 948	8.000	230	60	80	40.9	28.6	
450	355		727 908 950	7.400	230	60	90	40.9	32.2	
450	400		727 908 951	6.000	230	60	95	40.9	36.3	
500	315		727 908 953	12.000	230	60	80	45.4	28.6	
500	355		727 908 954	10.800	230	60	90	45.4	32.2	
500	400		727 908 956	10.000	230	60	95	45.4	36.3	
500	450		727 908 964	8.300	230	60	60	45.4	40.9	

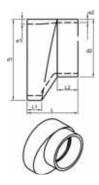




Reducing Bushes eccentric, PP-H SDR11

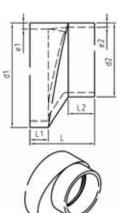
- Conventional butt fusion according to DVS2207Machined

d1	d2	PN	Code	kg	L	L1	L2	e1	e2	
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	
63	50	10	700 647 700	1.000	120	35	35	5,8	4,6	
75	50	10	700 647 701	1.000	120	40	35	6,8	4,6	
75	63	10	700 647 702	1.000	120	40	35	6,8	5,8	
90	63	10	700 647 703	0.253	140	50	50	8,2	5,8	
90	75	10	700 647 704	1.000	140	50	50	8,2	6,8	
110	75	10	700 647 705	0.378	140	50	50	10	6,8	
110	90	10	700 647 706	1.000	140	50	50	10	8,2	
125 125	90	10	700 647 707 700 647 708	1.000 1.000	140 140	50 50	50 50	11,4	5,1 10	
140	90	10 10	700 647 708	1.000	140	50	50	11,4 12,7	8,2	
140	110	10	700 647 710	1.000	140	50	50	12,7	10	
160 160	90	10 10	700 647 711 700 647 712	1.000 1.000	140 120	50 40	54 45	14,6 14,6	8,2 10	
160	125	10	700 647 712	1.000	110	40	44	14,6	11,4	
160	140	10	700 647 713	1.000	90	40	33	14,6	12,7	
180	125	10	700 647 715	1.000	130	40	52	16,4	11,4	
180	140	10	700 647 716	1.000	110	40	41	16,4	12,7	
180	160	10	700 647 717	1.000	90	40	33	16,4	16,4	
200	140	10	700 647 718	1.000	140	40	50	18,2	12,7	
200	160	10	700 647 719	1.000	120	40	41	18,2	14,6	
200	180	10	700 647 720	1.000	100	40	43	18,2	16,4	
225	160	10	700 647 721	1.000	140	40	57	20,5	14,6	
225	180	10	700 647 722	1.000	120	40	48	20,5	16,4	
225	200	10	700 647 723	1.000	100	40	40	20,5	18,2	
250	180	10	700 647 724	1.000	150	40	54	22,7	16,4	
250	200	10	700 647 725	1.000	130	40	55	22,7	18,2	
250	225	10	700 647 726	1.000	110	40	40	22,7	20,5	
280	200	10	700 647 727	1.000	160	40	58	25,4	18,2	
280	225	10	700 647 728	1.000	130	40	52	25,4	20,5	
280	250	10	700 647 729	1.000	110	40	47	25,4	22,7	
315	225	10	700 647 730	1.000	160	40	62	28,6	20,5	
315	250	10	700 647 731	1.000	140	40	57	28,6	22,7	
315	280	l	700 647 732	1.000	120	40	54	28,6	25,4	
table c	ontinue	u nex	u page							



d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]	
355	250	10	700 647 733	1.000	180	40	74	32,2	22,7	
355	280	10	700 647 734	1.000	150	40	61	32,2	25,4	
355	315	10	700 647 735	1.000	120	40	51	32,2	28,6	
400	280	10	700 647 736	1.000	200	40	85	36,3	25,4	
400	315	10	700 647 737	4.793	170	40	75	36,3	28,6	
400	355	10	700 647 738	1.000	130	40	58	36,3	32,2	
450	315	10	700 647 739	1.000	210	40	86	40,9	28,6	
450	355	10	700 647 740	1.000	180	40	79	40,9	32,2	
450	400	10	700 647 741	1.000	140	40	65	40,9	36,3	
500	315	10	700 647 742	12.810	260	40	107	45,4	28,6	
500	355	10	700 647 743	8.550	220	40	91	45,4	32,2	
500	400	10	700 647 744	10.063	190	40	86	45,4	36,3	
500	450	10	700 647 745	1.000	140	40	65	45,4	40,9	
560	450	10	700 647 746	1.000	200	40	91	50,8	40,9	
560	500	10	700 647 747	1.000	150	40	70	50,8	45,4	
630	500	10	700 647 748	1.000	220	40	99	57,2	45,4	
630	560	10	700 647 749	1.000	170	40	84	57,2	50,8	



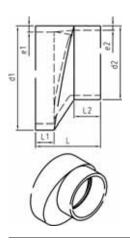


Reducing Bushes eccentric, PP-H SDR17.6

Model

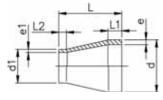
- Conventional butt fusion according to DVS2207
- Machined

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d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]	
63	50	6	700 647 750	1.000	120	35	35	3,6	2,9	
75 75	50	6	700 647 751	1.000	120	40 40	35	4,3	2,9	
75 90	63 63	6	700 647 752 700 647 753	1.000	120 140	50	35 50	4,3 5,1	3,6 3,6	
90	75	6	700 647 754	1.000	140	50	50	5,1	4,3	
110	75	6	700 647 755	0.300	140	50	50	6,3	4,3	
110	90	6	700 647 756	1.000	140	50	50	6,3	5,1	
125 125	90	6 6	700 647 757 700 647 758	1.000 1.000	140 140	50 50	50 50	7,1 7,1	5,1 6,3	
140	90	6	700 647 758	1.000	140	50	50	8,0	5,1	
140	110	6	700 647 760	1.000	140	50	50	8,0	6,3	
160	90	6	700 647 761	1.000	140	50	54	9,5	5,4	
160	90	6	700 647 762	1.000	120	40	45	9,5	6,6	
160 160	125 140	6	700 647 763 700 647 764	1.000 1.000	110 90	40 40	44 33	9,5 9,5	7,4 8,3	
180 180	125 140	6	700 647 765 700 647 766	1.000 1.000	130 110	40 40	52 41	10,7 10,7	7,4 8,3	
180	160	6	700 647 767	1.000	90	40	33	10,7	9,5	
200	140	6	700 647 768	1.000	140	40	50	11,9	8,3	
200	160	6	700 647 769	1.000	120	40	41	11,9	9,5	
200	180	6	700 647 770	1.000	100	40	43	11,9	10,7	
225	160 180	6	700 647 771 700 647 772	1.000	140 120	40 40	57	13,4 13,4	9,5 10,7	
225 225	200	6	700 647 772	1.000	100	40	48 40	13,4	11,9	
250	180	6	700 647 774	1.000	150	40	54	14,8	10,7	
250	200	6	700 647 775	1.000	130	40	55	14,8	11,9	
250	225	6	700 647 776	1.000	110	40	40	14,8	13,4	
280	200	6	700 647 777	1.000	160	40	58	16,6	11,9	
280 280	225 250	6	700 647 778 700 647 779	1.000 1.000	130 110	40 40	52 47	16,6 16,6	13,4 14,8	
315	225	6	700 647 780	1.000	160	40	62	18,7	13,4	
315	250	6	700 647 781	1.000	140	40	57	18,7	14,8	
315	280	6	700 647 782	1.000	120	40	54	18,7	16,6	
355	250	6	700 647 783	1.000	180	40	74	21,1	14,8	
355	280	6	700 647 784	1.000	150	40	61	21,1	16,6	
355 400	315 280	6	700 647 785 700 647 786	1.000 1.000	120 200	40 40	51 85	21,1 23,7	18,7 16,6	
400	315	6	700 647 786	1.000	170	40	75	23,7	18,7	
400	355	6	700 647 788	1.000	130	40	58	23,7	21,1	
450	315	6	700 647 789	1.000	210	40	86	26,7	18,7	
450	1	6	700 647 789	l						



d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
450	355	6	700 647 790	1.000	180	40	79	26,7	21,1
450	400	6	700 647 791	1.000	140	40	65	26,7	23,7
500	315	6	700 647 792	1.000	260	40	107	29,7	18,7
500	355	6	700 647 793	1.000	220	40	91	29,7	21,1
500	400	6	700 647 794	1.000	190	40	86	29,7	23,7
500	450	6	700 647 795	1.000	140	40	65	29,7	26,7
560	450	6	700 647 796	1.000	200	40	91	33,2	26,7
560	500	6	700 647 797	1.000	150	40	70	33,2	29,7
630	500	6	700 647 798	1.000	220	40	99	37,4	29,7
630	560	6	700 647 799	1.000	170	40	84	37,4	33,2

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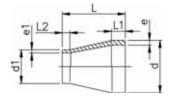


PROGEF Standard reducer \$8.3/SDR17.6

Model:

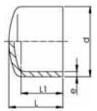
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- ¹ Material: PP-R

	-14		O a d a	l		1.4			-4	
d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]	
50	40	IR	727 908 949	0.010	55	12	12	2,9	2,3	
63	40	İR	727 908 901	0.020	65	16	12	3,6	2,3	
63	50	IR	727 908 900	0.020	65	16	12	3,6	2,9	
75	40	IR	727 908 904	0.041	65	20	20	4,3	2,3	
75	50	IR	727 908 465	0.047	65	20	20	4,8	3,2	
75	63	IR	727 908 464	0.053	65	20	20	4,3	3,6	
90	63	IR	727 908 471	0.079	75	22	19	5,1	3,6	
90	75	IR	727 908 470	0.090	75	21	19	5,1	4,3	
110	75	IR	727 908 477	0.144	90	28	18	6,3	4,3	
110	90	IR	727 908 476	0.158	90	28	20	6,3	5,1	
125	110	IR	727 908 912	0.190	108	32	28	7,1	6,3	
140	110	IR	727 908 917	0.322	115	35	28	8,0	6,3	
140 160	125 110	IR IR	727 908 916 727 908 922	0.353 0.454	115 124	35 40	32 28	8,0 9,1	7,1 6,3	
160	140	IR	727 908 920	0.482	124	40	35	9,1	8,0	
180	90	IR	727 908 928	0.866	157	45	22	10,2	5,1	
180	110	IR	727 908 927	0.698	157	45	28	10,2	6,3	
180	125	IR	727 908 926	0.596	136	45	32	10,2	7,1	
180	140	IR	727 908 925	0.632	136	45	35	10,2	8,0	
180	160	IR	727 908 924	0.677	136	45	40	10,2	9,1	
200	160	IR	727 908 930	0.805	151	50	40	11,4	9,1	
200	180	IR	727 908 929	0.895	151	50	45	11,4	10,2	
225	110	IR	727 908 936	1.001	171	55	40	12,8	6,3	
225 225	160	IR IR	727 908 934	1.082	171	55 55	45 45	12,8	9,1	
	180		727 908 933	1.337	171			12,8	10,2	
225 250	200 160	IR 	727 908 932 727 908 940	1.184 2.062	184 194	60 60	40 40	12,8 14,2	11,4 9,1	
250	225		727 908 937	1.792	182	60	55	14,2	12,8	
1 280	225		727 908 942	1.365	105	30	20	15,9	12,8	
1 280	250		727 908 941	0.858	70	30	18	15,9	14,2	
1 315	225		727 908 947	2.062	130	30	20	17,9	12,8	
1 315	250		727 908 946	1.578	100	30	20	17,9	14,2	
1 315	280		727 908 945	1.156	63	30	18	17,9	15,9	
1 355	250		727 908 959	3.000	245	90	60	20,1	14,2	
1 355	280		727 908 958	2.700	245	90	70	20,1	15,9	
1 355	315		727 908 957	2.400	245	90	80	20,1	17,9	
1 400	315		727 908 972	3.600	260	95	80	22,7	17,9	
1 400 450	355 280		727 908 971 727 908 967	3.100 6.000	260 230	95 60	90 70	22,7 25,5	20,1 15,9	
450	315		727 908 984	5.400	230	60	80	25,5	17,9	
450	355		727 908 988	5.000	230	60	90	25,5	20,1	
450	400		727 908 989	5.000	230	60	95	25,5	20,1	
500	315		727 908 993	8.100	230	60	80	28,4	17,9	
table co		next	1	'	1	1	ı			I



d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]	
500 500	355 400	l	727 908 994 727 908 998	7.300 6.700	230 230	60 60	95 95	28,4	20,1 22.7	
500	450	1	727 908 998	5.500	230	60	60	28,4 28,4	25,7	

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PROGEF Standard end cap S5/SDR11

Model:

- Material: PP-H
- · Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

d	FM	Code	kg	L	L1	е
[mm]				[mm]	[mm]	[mm]
20	IR	727 968 931	0.005	42	30	1.9
25	İR		0.005	50	35	2.3
	1					
32	IR	727 968 933	0.013	55	40	2.9
40	IR		0.018	65	45	3.7
50	IR	727 968 935	0.043	70	50	4.6
63	IR	727 968 936	0.080	80	55	5.8
75	IR	727 968 937	0.126	90	60	6.8
90	IR	727 968 938	0.107	105	70	8.2
110	IR	727 968 939	0.384	120	80	10.0
125	IR	727 968 940	0.237	50	25	11.4
140	IR	727 968 941	0.350	60	30	12.7
160	IR	727 968 942	0.684	76	40	14.6
180	IR	727 968 943	1.103	125	88	16.4
200	IR	727 968 944	1.089	100	50	18.2
225	IR	727 968 945	1.531	103	60	20.5

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PROGEF Standard end cap S5/SDR11

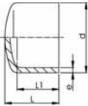
Model:

- Material: PP-R
- Machined
- Conventional butt-welding according to DVS 2207 part 11

d	Code	kg	L	е
[mm]			[mm]	[mm]
250	727 968 846	1.900	60	22,7
280	727 968 847	2.600	65	25,4
315	727 968 848	3.600	70	28,6
355	727 968 849	5.100	80	32,2
400	727 968 850	7.200	85	36,3
450	727 968 851	10.200	95	40,9
500	727 968 852	14.000	105	74,5

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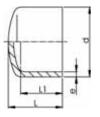


PROGEF Standard end cap S8.3/SDR17.6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

		`		•		
d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
50	IR	727 968 910	0.054	75	53	2,9
63	IR	727 968 911	0.056	85	58	3,6
75	IR	727 968 912	0.045	90	60	4,3
90	IR	727 968 913	0.145	105	70	5,1
110	IR	727 968 914	0.262	120	80	6,3
125	IR	727 968 915	0.161	50	25	7,1
140	IR	727 968 916	0.251	60	30	8,0
160	IR	727 968 917	0.401	76	40	9,1



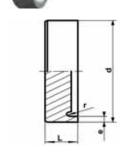
d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
180 200	IR	727 968 918 727 968 919	0.769 0.751	100	88 50	10,2 11,4
225	IR	727 968 920	1.060	103	60	12,8
180 200	IR	727 968 919	0.751	125 100	88	10,2 11,4

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PROGEF Standard end cap S8.3/SDR17.6

• Material: PP-R

Conventional butt-welding according to DVS 2207 part 11
Machined



d	Code	kg	L	е
[mm]			[mm]	[mm]
250	727 968 821	1.600	55	14,2
280	727 968 822	2.100	60	15,9
315	727 968 823	3.000	65	17,9
355	727 968 824	4.200	70	20,1
400	727 968 825	6.000	75	22,7
450	727 968 826	8.600	85	25,5
500	727 968 827	11.600	90	28,3

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Adaptor fittings for butt fusion

PROGEF Standard adaptor socket metric Rp

Model

- Material: PP-H
- With butt fusion spigot SDR11 and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- · Connection to plastic or metal threads
- · Do not use thread sealing pastes that are harmful to PP
- · Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	Rp [inch]	PN	FM	Code	kg	L [mm]	L1 [mm]	S [mm]	e [mm]
20	1/2	10	IR	727 910 266	0.017	49	23	32	1,9
25	3/4	10	IR	727 910 267	0.022	50	23	36	2,3
32	1	10	IR	727 910 268	0.038	54	23	46	2,9
40	1 1/4	10	IR	727 910 269	0.066	56	23	55	3,7
50	1 ½	10	IR	727 910 270	0.090	60	23	65	4,6
63	2	10	IR	727 910 271	0.123	62	23	80	5,8

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PROGEF Standard adaptor socket metric NPT

Model:

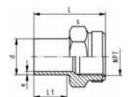


- With butt fusion spigot SDR11and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- · Connection to plastic or metal threads
- · Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	NPT	PN	FM	Code	kg	L	L1	s	е
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]
20	1/2	10	IR	727 914 356	0.017	49	23	32	1.9
25	3/4	10	IR	727 914 357	0.022	51	23	36	2.3
32	1	10	IR	727 914 358	0.039	54	23	46	2.9
40	1 1/4	10	IR	727 914 359	0.057	56	23	55	3.7
50	1 ½	10	IR	727 914 360	0.085	60	23	65	4.6
63	2	10	IR	727 914 361	0.122	62	23	80	5.8

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27 91 02

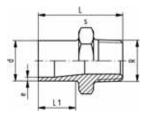


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PROGEF Standard adaptor nipple metric R



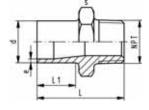
- Material: PP-H
- With butt fusion spigotand BSP tapered male thread
- · Do not use thread sealing pastes that are harmful to PP
- · Install with low mechanical stress and avoid large cyclic temperature changes



d	R	PN	FM	Code	kg	L	L1	s	е
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]
20	1/2	10	IR	727 910 556	0.013	51	23	32	1,9
25	3/4	10	IR	727 910 557	0.014	52	23	36	2,3
32	1	10	IR	727 910 558	0.027	55	23	46	2,9
40	1 1/4	10	IR	727 910 559	0.041	58	23	55	3,7
50	1 ½	10	IR	727 910 560	0.062	60	23	65	4,6
63	2	10	IR	727 910 561	0.096	67	26	80	5,8

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PROGEF Standard adaptor nipple metric NPT

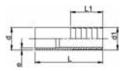
Model:

- Material: PP-H
- With butt fusion spigot SDR11 and NPT tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	NPT	PN	FM	Code	kg	L	L1	s	е
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]
20	1/2	10	IR	727 914 656	0.013	51	23	32	1.9
25	3/4	10	IR	727 914 657	0.026	52	23	36	2.3
32	1	10	IR	727 914 658	0.026	55	23	46	2.9
40	1 1/4	10	IR	727 914 659	0.041	58	24	55	3.7
50	1 ½	10	IR	727 914 660	0.062	60	23	65	4.6
63	2	10	IR	727 914 661	0.097	67	26	80	5.8

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PROGEF Standard hose connector metric

Model:

- Material: PP-H
- With butt fusion spigot SDR11 and parallel hose connection

d	d1	PN	FM	Code	kg	L	L1	е
[mm]	[mm]					[mm]	[mm]	[mm]
20	20	10	IR	727 968 606	0.007	64	27	1.9
25	25	10	IR	727 968 607	0.014	75	36	2.3
32	32	10	IR	727 968 608	0.022	82	36	2.9
40	40	10	IR	727 968 609	0.032	84	42	3.7
50	50	10	IR	727 968 610	0.053	90	48	4.6
63	60	10	IR	727 968 611	0.088	100	50	5.8





End Cap PP-H, SDR11 with female thread

- · Conventional butt fusion according to DVS2207
- Machined
- metric Rp
- other thread-dimensions and NPT-thread available on request

d [mm]	Rp [inch]	PN	Code	kg	L [mm]	L1 [mm]	e [mm]	r [mm]	
63	1/2	10	700 647 924	1.000	35	10	5,8	5	
75	1/2	10	700 647 925	1.000	35	10	6,8	5	
90	1/2	10	700 647 926	1.000	35	10	8,2	5	
110	1/2	10	700 647 927	1.000	35	10	10	5	
125	1/2	10	700 647 928	1.000	36	10	11,4	5	
140	1/2	10	700 647 929	1.000	38	10	12,7	5	
160	1/2	10	700 647 930	1.000	40	10	14,6	6	
180	1/2	10	700 647 931	1.000	41	10	16,4	6	
200	1/2	10	700 647 932	1.000	45	11	18,2	6	
225	1/2	10	700 647 933	1.000	52	12	20,5	10	
250	1/2	10	700 647 934	1.000	57	14	22,7	11	
280	1/2	10	700 647 935	1.000	63	15	25,4	13	
315	1/2	10	700 647 936	1.000	72	17	28,6	14	
355	1/2	10	700 647 937	1.000	80	19	32,2	16	
400	1/2	10	700 647 938	1.000	90	22	36,3	18	
450	1/2	10	700 647 939	1.000	102	25	40,9	20	
500	1/2	10	700 647 940	1.000	113	27	45,4	23	
560	1/2	10	700 647 941	1.000	127	30	50,8	25	
630	1/2	10	700 647 942	1.000	143	34	57,2	29	





End Cap PP-H, SDR17.6 with female thread

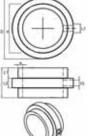
Model:

- Conventional butt fusion according to DVS2207
- Machined
- metric Rp
- other thread-dimensions and NPT-thread available on request

d	Rp	PN	Code	kg	L	L1	е	r	
[mm]	[inch]				[mm]	[mm]	[mm]	[mm]	
63	1/2	6	700 665 127	1.000	35	10	3,6	5	
75	1/2	6	700 665 128	1.000	35	10	4,3	5	
90	1/2	6	700 665 129	1.000	35	10	5,1	5	
110	1/2	6	700 665 130	1.000	35	10	6,3	5	
125	1/2	6	700 665 131	1.000	35	10	7,1	5	
140	1/2	6	700 665 132	1.000	35	10	8,0	5	
160	1/2	6	700 665 133	1.000	35	10	9,1	6	
180	1/2	6	700 665 134	1.000	35	10	10,2	6	
200	1/2	6	700 665 135	1.000	35	10	11,4	6	
225	1/2	6	700 665 136	1.000	35	10	12,8	8	
250	1/2	6	700 665 137	1.000	35	10	14,2	8	
280	1/2	6	700 665 138	1.000	40	10	15,9	8	
315	1/2	6	700 665 139	1.000	45	11	17,9	8	
355	1/2	6	700 665 140	1.000	50	12	20,1	8	
400	1/2	6	700 665 141	1.000	57	14	22,7	10	
450	1/2	6	700 665 142	1.000	67	16	26,7	10	
500	1/2	6	700 665 143	1.000	75	18	29,7	10	
560	1/2	6	700 665 144	1.000	83	20	33,2	10	
630	1/2	6	700 665 145	1.000	93	22	37,2	10	





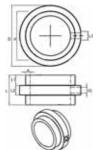


Instrument Installation Fittings PP-H, SDR11 with female thread

- Conventional butt fusion according to DVS2207
- Machined
- metric Rp
- other thread-dimensions and NPT-thread available on request

d [mm]	Rp [inch]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	D [mm]	e [mm]	
63	1/2	10	700 665 351	1.000	90	30	30	90	5,8	
75	1/2	10	700 665 352	1.000	90	30	30	110	6,8	
90	1/2	10	700 665 353	1.000	100	30	40	125	8,2	
110	1/2	10	700 665 354	1.000	100	30	40	140	10	
125	1/2	10	700 665 355	1.000	110	35	40	160	11,4	
140	1/2	10	700 665 356	1.000	125	40	45	180	12,7	
160	1/2	10	700 665 357	1.000	125	40	45	200	14,6	
180	1/2	10	700 665 358	1.000	135	45	45	225	16,4	
200	1/2	10	700 665 359	1.000	135	45	45	250	18,2	
225	1/2	10	700 665 360	1.000	135	45	45	280	20,5	
250	1/2	10	700 665 361	1.000	145	50	45	280	22,7	
280	1/2	10	700 665 362	1.000	155	50	55	315	25,4	
315	1/2	10	700 665 363	1.000	155	50	55	355	28,6	
355	1/2	10	700 665 364	1.000	115	30	55	400	32,2	
400	1/2	10	700 665 365	1.000	130	30	70	450	36,3	

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Instrument Installation Fittings PP-H, SDR17.6 with female thread

- Conventional butt fusion according to DVS2207
- Machined
- metric Rp
- other thread-dimensions and NPT-thread available on request

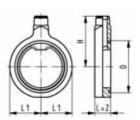
d [mm]	Rp [inch]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	D [mm]	e [mm]
	[IIICII]				firming	[iiiiii]	[iiiiii]	[iiiiii]	firming
63	1/2	6	700 665 388	1.000	90	30	30	90	3,6
75	1/2	6	700 665 389	1.000	90	30	30	110	4,3
90	1/2	6	700 665 390	1.000	100	30	40	125	5,1
110	1/2	6	700 665 391	1.000	100	30	40	140	6,3
125	1/2	6	700 665 392	1.000	110	35	40	160	7,1
140	1/2	6	700 665 393	1.000	125	40	45	180	8,0
160	1/2	6	700 665 394	1.000	125	40	45	200	9,1
180	1/2	6	700 665 395	1.000	135	45	45	225	10,2
200	1/2	6	700 665 396	1.000	135	45	45	250	11,4
225	1/2	6	700 665 397	1.000	135	45	45	280	12,8
250	1/2	6	700 665 398	1.000	145	50	45	280	14,2
280	1/2	6	700 665 399	1.000	155	50	55	315	15,9
315	1/2	6	700 665 400	1.000	155	50	55	355	17,9
355	1/2	6	700 665 401	1.000	115	30	55	400	20,1
400	1/2	6	700 665 402	1.000	130	30	70	450	22,7

SIGNET Sensor installation fittings

PROGEF Standard installation fitting type 311

27 31 10





Model:

- Material: PP-H
- Threaded outlet 1 1/4" NPSM
- Suitable for backing flanges metric and inchSuitable for SDR 11 SDR 17.6
- Delivered with profile O-ring

Range of use:

• compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

Attention:

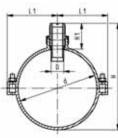
· sensor length depends on installation fitting

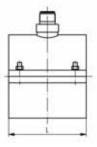
d [mm]	DN [mm]	d [inch]	PN	EPDM Code	FPM Code	kg
75	65	2 ½	16	727 311 012	727 311 042	0.460
90	80	3	16	727 311 013	727 311 043	0.542
110	100	4	16	727 311 014	727 311 044	0.668
125	100		16	727 311 015	727 311 045	0.595
140	125	5	16	727 311 016	727 311 046	0.842
160	150	6	16	727 311 017	727 311 047	1.023
180	150		16	727 311 018	727 311 048	0.868
200	200	8	16	727 311 019	727 311 049	1.578
225	200	8	16	727 311 020	727 311 050	1.332
250	250	10	16	727 311 021	727 311 051	2.209
280	250	10	16	727 311 022	727 311 052	1.836
315	300	12	16	727 311 023	727 311 053	2.495

		1		1	
d	D	Н	L	L1	Sensor Type
[mm]	[mm]	[mm]	[mm]	[mm]	
75	88	133	48	61	flow X1
90	102	140	48	69	flow X1
110	132	149	48	79	flow X1
125	132	144	48	79	flow X1
140	157	149	48	94	flow X1
160	182	156	48	106	flow X1
180	182	163	48	106	flow X1
200	236	170	48	134	flow X1
225	236	178	48	134	flow X1
250	289	263	48	160	flow X2
280	289	273	48	160	flow X2
315	329	285	48	185	flow X2

27 31 20







PROGEF Standard installation fitting type 312 metric

- Material: PP-H
- Threaded outlet 1 1/4" NPSM
- · Top saddle with EPDM gasket
- · Stainless steel bolts and nuts

Range of use:

compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

Attention:

- · sensor length depends on installation fitting
- working temperature max. +40°C (water)

d [mm]	DN [mm]	PN	Code	kg	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	Sensor Type
75	65	8	727 312 072	0.488	34	78	62	172	88	flow X1
90	80	8	727 312 073	0.514	34	86	69	186	87	flow X1
110	100	8	727 312 074	0.602	34	98	79	206	86	flow X1
125	100	8	727 312 075	0.667	34	101	85	212	78	flow X1
140	125	6	727 312 076	0.949	34	114	104	227	75	flow X1
160	150	6	727 312 077	0.985	34	114	114	243	72	flow X1
180	150	6	727 312 078	2.118	34	168	134	348	144	flow X2
200	200	6	727 312 079	2.045	34	168	132	357	142	flow X2
225	200	5	727 312 080	2.211	34	174	146	375	136	flow X2
250	250	5	727 312 081	2.616	34	179	159	397	131	flow X2
280	250	5	727 312 082	3.583	34	179	167	426	127	flow X2
315	300	5	727 312 083	4.311	34	248	202	450	120	flow X2



PROGEF Standard installation fitting type 314

Model:

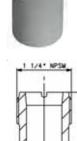
- · Material: PP-H
- Threaded outlet 1 1/4" NPSM
- for conventional hot gas back welding according to DVS 2207 part 3

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

Attention:

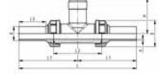
- only for pressureless or low pressure application
- · pressure rate depends on quality of hot gas back welding
- please consult the instruction manual
- · Installation by trained and certified welders only
- · sensor length depends on installation fitting

d [mm]	DN	PN* [bar]	Code	kg	D [mm]	L [mm]	Sensor Type
75 - 180			727 314 000	0.050	37.5		
200 - 355			727 314 001	0.057			flow X1
400 - 630	350 - 600	-	727 314 002	0.885	37.5	178	flow X2



27 31 80





PROGEF Standard installation fitting type 318 S5/SDR11 for butt fusion systems metric

Model:

- Material: PP-H
- Threaded outlet 1 1/4" NPSM
- Union end with butt fusion spigot PP-H

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

Attention:

• sensor length depends on installation fitting

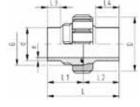
d [mm]	DN [mm]	PN	FM	EPDM Code	FPM Code	kg
20	15	10	IR	727 318 006	727 318 036	0.136
25	20	10	IR	727 318 007	727 318 037	0.208
32	25	10	IR	727 318 008	727 318 038	0.250
40	32	10	IR	727 318 009	727 318 039	0.356
50	40	10	IR	727 318 010	727 318 040	0.510
63	50	10	IR	727 318 011	727 318 041	0.800

d	е	D	L	L1	L2	L3	Н	Sensor Type
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
20	1.9	48	224	112	90	52	76	flow X0, pH XX
25	2.3	58	242	121	100	53	78	flow X0, pH XX
32	2.9	65	256	128	110	55	81	flow X0, pH XX
40	3.7	79	272	136	110	60	85	flow X0, pH XX
50	4.6	91	294	147	120	66	89	flow X0, pH XX
63	5.8	105	316	158	130	70	95	flow X0, pH XX

Unions for butt fusion

EPDM 27 51 85 FPM 27 52 85





PROGEF Standard union S5/SDR11

Model

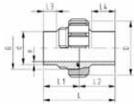
- Material: PP-H
- With butt fusion ends
- Conventional butt fusion and (IR Plus®) compatible
- Gasket: O-Ring EPDM No. 48 41 00
- For the dimensions d75-110 please see instructions for the installation

d [mm]	PN	FM	EPDM Code	FPM Code	kg
20	10	IR	727 518 506	727 528 506	0.047
25	10	IR	727 518 507	727 528 507	0.072
32	10	IR	727 518 508	727 528 508	0.100
40	10	IR	727 518 509	727 528 509	0.145
50	10	IR	727 518 510	727 528 510	0.190
63	10	IR	727 518 511	727 528 511	0.332
75	10	IR	727 518 512	727 528 512	0.520
90	10	IR	727 518 513	727 528 513	0.539
110	10	IR	727 518 514	727 528 514	0.758

d [mm]	D [mm]	G [inch]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	e [mm]
		4						
20	48	1	107	54.0	53.0	13	26	1.9
25 32	58 65	1 1/4 1 1/2	113 119	57.0 60.0	56.0 59.0	12 14	26 26	2.3 2.9
40	79	2	126	63.0	63.0	16	26	3.7
50	91	2 1/4	131	65.5	65.5	19	26	4.6
63	111	2 3/4	137	69.0	68.0	20	26	5.8
75	135	S107,5x3,6	131	66.0	65.5	22	24	6.8
90	135	S107,5x3,6	131	65.5	65.5	22	24	8.2
110	158	S127,5x3,6	131	65.5	65.5	22	25	10.0

EPDM 27 51 84 FPM 27 52 84





PROGEF Standard union S8.3/SDR17.6

- Material: PP-H
- With butt fusion ends
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- · Jointing face: With O-ring groove
- For the dimensions d75-110 please see instructions for the installation

d [mm]	PN	FM	EPDM Code		FPM Code		kg
75 90			727 518 4 727 518 4				0.476 0.483
110			727 518 4	- 1			0.664
d [mm]	D [mm]	G	-1	L [mm]	L1	L2	e [mm]

d [mm]	D [mm]	G [inch]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
75		S107,5x3,6				
90 110		S107,5x3,6 S127,5x3,6		I		- ,

Instructions for the installation of unions in PP, PE d 75, d 90 and d 110

The newest generation of plastic unions in the above materials and dimensions has been fitted with a state-of-the-art, plastics-oriented buttress thread. You therefore have a product in which the nominal pressure and the safety reserve have been dramatically increased. Also new are the butt fusion versions. In this connection, there are a few points which you must be aware of.

Caution



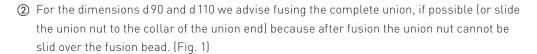
① The threads of the union nut and bush have been reworked for PP, PVDF and PE! When using individual parts, please check prior to installation if the threads of the union bush and the union nut coincide.

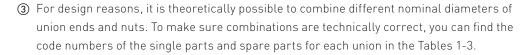
Union bush with trapezoid thread on union nut with trapezoid thread or

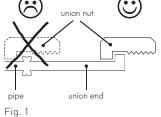
Union bush with buttress thread on union nut with buttress thread

Tip

To make installation of the union easier, wet the union nut.







butt fusion union nut d 75 union end d 90 insufficient butt fusion

union bush d 75

Fig. 2

Caution

Only use union bushes and union ends with the same nominal diameter!

A butt fusion union bush d75 may not be combined with a butt fusion union end d90 to form a reducer because this can cause leakage, as illustrated to the left. (Fig. 2)

Markings on the union nuts SF/MS = socket fusion, BF/ST = butt fusion

SF/MS 75 specified for socket fusion d 75

BF/ST 75–90 specified for butt fusion d 75–75 and d 90–90

SF/MS 90 specified socket fusion d 90 BF/ST 110 specified butt fusion d 110

110 specified for socket fusion d 110

Tip

We recommend changing materials only for the union end for installation reasons.

Selection tables for single parts and spare parts



Table 1
Single parts for **PP-H** unions d75, d90 and d110

J				,			
d	BF/ST	SF/MS	SDR	PN	Code union end	Code union bush	Code union nut*
75	==		11	10	727 608 512	727 648 512	727 690 422
	==		17.6	6	727 608 412	727 648 412	727 690 422
		=	_	10	727 600 112	727 640 172	727 690 422
90	==		11	10	727 608 513	727 648 513	727 690 422
	==		17.6	6	727 608 413	727 648 413	727 690 422
		==	_	10	727 600 113	727 640 173	727 690 423
110	==		11	10	727 608 514	727 648 514	727 690 423
	===		17.6	6	727 608 414	727 648 414	727 690 423
		===	_	10	727 600 114	727 640 174	727 690 424

Table 2 Single parts for $\textbf{PE100}\$ unions d75, d90 and d110

9						
d	BF/ST	SF/MS SDR	PN	Code union end	Code union bush	Code union nut*
75	==	11	10	753 608 612	753 648 612	727 690 442
	==	17.6	10	753 608 412	753 648 412	727 690 442
90	==	11	10	753 608 613	753 648 613	727 690 442
	==	17.6	10	753 608 413	753 648 413	727 690 442
110	==	11	10	753 608 614	753 648 614	727 690 443
	==	17.6	10	753 608 414	753 648 414	727 690 443

Table 3 O-Rings for PP-H, PE 100

	5	,			
d	BF/ST	SF/MS SDR	PN	Code O-Ring EPDM ¹	Code O-Ring FPM ¹
75	==		16	748 410 013	749 410 013
		==	16	748 410 014	749 410 014
90	==		16	748 410 014	749 410 014
		==	16	748 410 015	749 410 015
110	==		16	748 410 015	749 410 015
		==	16	748 410 016	749 410 016

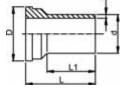
^{*} Union nuts overlap several dimensions

+GF+

¹ Flange adaptor O-rings, one size smaller in nominal dimensions, are used for the d75–110 butt-fusion unions

27 60 85





PROGEF Standard union end IR plus SDR11

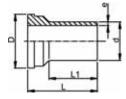
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- For the dimensions d75-110 please see instructions for the installation

d [mm]	PN	FM	Code	kg	D	L [mm]	L1 [mm]	e [mm]
	40			0.000				
20	10	IR		0.009	30	54	38	1.9
25	10	IR	727 508 507	0.017	39	57	42	2.3
32	10	IR	727 508 508	0.026	45	60	41	2.9
40	10	IR	727 508 509	0.043	57	63	42	3.7
50	10	IR	727 508 510	0.058	63	66	44	4.6
63	10	IR	727 508 511	0.095	78	69	45	5.8
75	10	IR	727 508 512	0.146	101	66	34	6.8
90	10	IR	727 508 513	0.158	101	66	45	8.2
110	10	IR	727 508 514	0.233	121	66	40	10.0

27 60 84





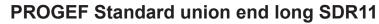
PROGEF Standard union end IR plus SDR17.6

Model:

- · Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- For the dimensions d75-110 please see instructions for the installation

d [mm]	PN	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	e [mm]
75	6	IR	727 608 412	0.121	101	66	34	4,3
90	6	IR	727 608 413	0.113	101	66	45	5,1
110	6	IR	727 608 414	0.163	121	66	40	6,3

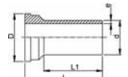
27 60 85



Model:







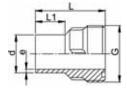
- · Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- · Spigot for electro fusion
- Suitable for unions, diaphragm valves Type 314 and Vortex sensors

d	PN	FM	Code	kg	D [mm]	L	L1	e [mm]
[mm]					[mm]	[mm]	[mm]	[mm]
20	10	IR	727 608 516	0.011	30	67	52	1,9
25	10	IR	727 608 517	0.018	39	71	53	2,3
32	10	IR	727 608 518	0.024	45	73	55	2,9
40	10	IR	727 608 519	0.041	57	81	60	3,7
50	10	IR	727 608 520	0.054	63	87	66	4,6
63	10	IR	727 608 521	0.122	78	93	70	5,8

27 64 85

PROGEF Standard union bush SDR11



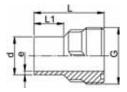


Model:

- · Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- · Spigot for electro fusion

d	PN	FM	Code	kg	G	L	L1	е					
[mm]					[inch]	[mm]	[mm]	[mm]					
20	10	IR	727 848 506	0.012	1	54	26	1.9					
25	10	IR	727 848 507	0.020	1 1/4	57	26	2.3					
32	10	IR	727 848 508	0.029	1 1/2	60	25	2.6					
40	10	IR	727 848 509	0.047	2	63	25	3.7					
50	10	IR	727 848 510	0.062	21/4	66	25	4.6					
63	10	IR	727 848 511	0.107	23/4	69	25	5.8					

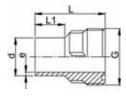
table continued next page



d [mm]	PN	FM	Code	kg	G [inch]	L [mm]	L1 [mm]	e [mm]
75	10	IR	727 848 512	0.172	S107.5x3.6	66	24	6.8
90	10	IR	727 848 513	0.182	S107.5x3.6	66	24	8.2
110	10	IR	727 848 514	0.258	S127.5x3.6	66	25	10.0







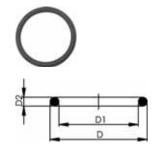
Union Bushes, PP-H SDR17,6

Model:

- · Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Gasket: O-Ring EPDM No. 48 41 00
- For the dimensions d75-110 please see instructions for the installation

d [mm]	PN	FM	Code	kg	G [inch]	L [mm]	L1 [mm]	e [mm]
75	6	IR	727 648 412	0.150	S127.5x3.6	65.5	24	4.3
90	6	IR	727 648 413	0.147	S107.5x3.6	66.0	24	5.1
110	6	IR	727 648 414	0.200	S127.5x3.6	66.0	24	6.3

EPDM 48 41 00 FPM 49 41 00

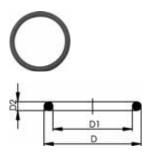


O-Ring gasket

Model:

- · For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C
- * for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

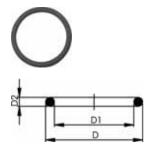
d [mm]	DN [mm]	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	D2 [mm]	
10 - 12	8	748 410 004	749 410 004	0.001	18	12	2.62	
16	10	748 410 005	749 410 005	0.001	21	16	2.62	
20	15	748 410 006	749 410 006	0.001	27	20	3.53	
25	20	748 410 007	749 410 007	0.002	35	28	3.53	
32	25	748 410 008	749 410 008	0.002	40	33	3.53	
40	32	748 410 009	749 410 009	0.007	51	41	5.34	
50	40	748 410 010	749 410 010	0.060	58	47	5.34	
63	50	748 410 011	749 410 011	0.003	70	60	5.34	
75	65	748 410 014	749 410 014	0.012	93	82	5.34	
90	80	748 410 015	749 410 015	0.015	112	101	5.34	
* 90	80	748 410 248	749 410 248	0.020	105	95	5.34	
110	100	748 410 016	749 410 016	0.031	134	120	6.99	



O-Ring Gasket, FPM black

- for unions PP-H, PE100 and PVDF butt fusion
- d75 748 410 013 (EPDM), 749 410 013 (FPM) d90 748 410 014 (EPDM), 749 410 014 (FPM) d110 748 410 015 (EPDM), 749 410 015 (FPM)

EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	D2 [mm]	
748 410 014	749 410 013 749 410 014 749 410 015	0.011 0.012 0.015	80 93 112			



O-Ring Gaskets

- For unions and adaptor unions
- Hardness approx. 75° Shore
 FFPM minimum temperature -20°C

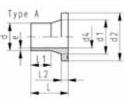
d [mm]	DN [mm]	FFPM Code	kg	D [mm]	D1 [mm]	D2 [mm]
20	15	700 245 481	0.002	27	20	4
25	20	700 245 482	0.002	35	28	4
32	25	700 245 483	0.002	40	33	4
40	32	700 245 484	0.006	51	41	5
50	40	700 245 485	0.007	58	47	5
63	50	700 245 486	0.010	70	60	5

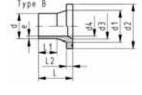
Flange Adaptors, Flanges and Gaskets for Butt Fusion

27 79 87









PROGEF Standard flange adaptor S5/SDR11 Combined jointing face: flat and serrated

Model

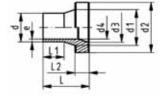
- · Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/568
 Above use PROGEF Standard Adaptor for butterfly valves SDR11 (d355-d500)
- Up to d280, suitable for butterfly valve type 037/038/039
- Above use PROGEF Standard Adaptor for butterfly valves SDR11 (d315-d500)

 Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Type A without chamfer, Type B with chamfer

d [mm]	DN [mm]	FM	Code	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Туре
													_
20	15	IR	727 798 706	0.015	26	45		16	50	29	7	1.9	Α
25	20	IR	727 798 707	0.029	32	58		20	52	27	9	2.3	Α
32	25	IR	727 798 708	0.042	40	68		26	54	28	10	2.9	Α
40	32	IR	727 798 709	0.064	49	78		32	56	25	11	3.7	Α
50	40	IR	727 798 710	0.091	60	88		40	62	32	12	4.6	Α
63	50	IR	727 798 711	0.144	75	102		51	68	38	14	5.8	Α
75	65	IR	727 798 712	0.243	89	122	66	61	80	43	16	6.9	В
90	80	IR	727 798 713	0.324	105	138	78	73	80	41	17	8.2	В
110	100	IR	727 798 714	0.441	125	158	100	90	80	40	18	10.0	В
125	100	IR	727 798 715	0.487	132	158	114	102	82	35	25	11.4	В
140	125	IR	727 798 716	0.800	155	188	127	114	89	39	25	12.8	В
160	150	IR	727 798 717	0.920	175	212	151	131	92	45	25	14.6	В
180	150	IR	727 798 718	0.892	180	212	154	147	80	45	30	16.4	В
200	200	IR	727 798 719	1.670	232	268	203	163	100	30	32	18.2	В
225	200	IR	727 798 720	1.665	235	268	210	184	100	35	32	20.5	В
250	250		727 798 721	2.630	285	320	250	204	100	25	35	22.7	В
280	250		727 798 722	2.521	291	320	265	229	100	35	35	25.4	В
315	300		727 798 723	3.247	335	370	300	257	100	25	35	28.6	В
355	350		727 798 724	7.572	373	430	340	290	180	40	40	32.2	В
400	400		727 798 725	10.201	427	482	385	327	187	46	46	36.3	В
450	500		727 798 726	13.800	514	585	400	368	141	64	60	40.9	В
500	500		727 798 727	12.553	530	587	440	409	138	62	61	45.4	В

277986





PROGEF Standard adaptor for butterfly valves SDR11 Jointing face flat metric

Model:

- Material: Polypropylene, PP-R
- Conventional butt-welding according to DVS 2207 part 11
- Suitable for butterfly valves type 567/568 and 037/038/039

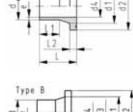
Note:

* available starting Q1 2013

d [mm]	DN [mm]	Code	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
* 315	300	727 798 623									
355	350	727 798 624	7.435	373	430	346	312	180	90	65	32.2
400	400	727 798 625	9.618	427	482	404	352	196	95	69	36.3
450	450	727 798 626	12.810	467	533	460	396	195	60	108	40.9
500	500	727 798 627	14.267	530	585	500	440	188	60	90	45.4

Type A





PROGEF Standard flange adaptor S5/SDR11 Combined jointing face: flat and serrated

Model:

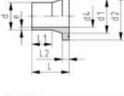
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to ANSI/ASME B 16.5
- Up to d280, suitable for butterfly valve type 567/568 and 037/038/039
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

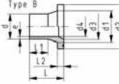
* Type B with chamfer

d	DN	FM	Code	kg	d1	d2	d3	d4	L	L1	L2	е
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	15	IR	727 798 706	0.015	26	45		16	50	29	7	1.9
25	20	IR	727 798 757	0.022	33	54		20	52	27	9	2.3
32	25	IR	727 798 758	0.039	40	63		26	54	28	10	3.0
40	32	IR	727 798 759	0.056	50	73		32	56	25	11	3.7
50	40	IR	727 798 760	0.087	61	82		40	62	32	12	4.6
63	50	IR	727 798 711	0.144	75	102		51	68	38	14	5.8
75	65	IR	727 798 712	0.243	89	122	66	61	80	43	16	6.9
* 90	80	IR	727 798 763	0.310	105	133	78	73	80	41	17	8.2
110	100	IR	727 798 714	0.441	125	158	100	90	80	40	18	10.0
125	100	IR	727 798 715	0.487	132	158	114	102	82	35	25	11.4
140	125	IR	727 798 716	0.800	155	188	127	114	89	39	25	12.8
160	150	IR	727 798 717	0.920	175	212	151	131	92	45	25	14.6
180	150	IR	727 798 718	0.892	180	212	154	147	80	45	30	16.4
200	200	IR	727 798 719	1.670	232	268	203	163	100	30	32	18.2
225	200	IR	727 798 720	1.665	235	268	210	184	100	35	32	20.5
250	250		727 798 721	2.630	285	320	250	204	100	25	35	22.7
280	250		727 798 722	2.521	291	320	265	229	100	35	35	25.4
315	300		727 798 723	3.247	335	370	300	257	100	25	35	28.6
355	350		727 798 724	7.572	373	430	340	290	180	40	40	32.2
400	400		727 798 725	10.201	427	482	385	327	187	46	46	36.3









PROGEF Standard flange adaptor \$8.3/SDR17.6 Combined jointing face: flat and serrated

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/568 Above use PROGEF Standard Adaptor for butterfly valves SDR17.6 (d355-d500)
- Up to d280, suitable for butterfly valve type 037/038/039 Above use PROGEF Standard Adaptor for butterfly valves SDR17.6 (d315-d500)
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

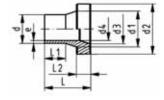
			t chan	_					/, FFI	71 NO. 49 44 07
d [mm]	DN [mm]	FM	Code		kg					
50 63 75 90 110	40 50 65 80 100	IR IR IR IR IR	727 79 727 79 727 79 727 79 727 79	8 786 8 787 8 788	0. 0.: 0.:	077 116 204 273 361				
125 140 160 180 200	100 125 150 150 200	IR IR IR IR IR	727 79 727 79 727 79 727 79 727 79	8 791 8 792 8 793	0.9 0.0	356 526 761 630 462				
225 250 280 315 355	200 250 250 300 350	IR	727 79 727 79 727 79 727 79 727 79	8 796 8 797 8 798	1.0 1.0 2.4	330 800 785 499 251				
400 450 500	400 500 500		727 79 727 79 727 79	8 801	10.	700 200 300				
d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Туре	
50 63 75	61 75 89	88 102 122		42 53 65	50 50 80	21 16 43	12 14 16	2.9 3.6 4.3	A A A	

d	d1	d2	d3	d4	L	L1	L2	е	Туре
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
50	61	88		42	50	21	12	2.9	Α
63	75	102		53	50	16	14	3.6	Α
75	89	122		65	80	43	16	4.3	A
90	105	138		78	80	41	17	5.1	A
110	125	158		96	80	40	18	6.3	A
125	132	158	114	107	80	42	18	7.4	В
140	155	188	127	120	80	34	18	8.0	В
160	175	212	158	142	92	45	25	9.1	В
180	180	212		156	80	30	20	10.2	A
200	232	268	203	177	100	30	32	11.4	В
225	235	268	210	199	100	35	32	12.8	В
250	285	320	250	216	100	25	25	14.2	В
280	291	320	265	243	100	45	25	15.9	В
315	335	370	300	274	100	35	25	17.9	В
355	374	431	340	314	182	100	30	20.1	В
400	428	484	385	353	199	110	33	22.7	В
450	514	585		396	140	586	46	25.5	Α
500	530	585		440	141	585	47	28.3	A

+GF+

277986





PROGEF Standard adaptor for butterfly valves SDR17.6 Jointing face flat metric

Model:

- · Material: Polypropylene, PP-R
- Conventional butt-welding according to DVS 2207 part 11
- Suitable for butterfly valves type 567/568 and 037/038/039

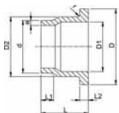
Note:

* available starting Q1 2013

d [mm]	DN [mm]	Code	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
* 315	300	727 798 648									
355	350	727 798 649	6.010	373	430	346	312	180	90	65	20.1
400	400	727 798 650	7.884	427	482	404	352	196	95	69	22.7
450	450	727 798 651	8.951	467	533	460	396	195	60	108	25.5
500	500	727 798 652	7.737	530	585	500	440	144	60	90	28.3

27 80 80





PROGEF Standard outlet flange adaptor S5/SDR11

Model:

- · Material: Polypropylene, PP-R
- Conventional butt-welding according to DVS 2207 part 11
- To wafer check valves Type 369

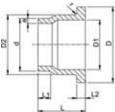
Attention:

 In conjunction with outlet flange adaptors, flange rings for socket systems must be used.

d	DN	Code	kg	D	D1	D2	L	L1	L2	е	r
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
40	32	727 808 034	0.064	80	37	50	64	30	11	3,7	3
50	40	727 808 035	0.096	90	43	61	67	30	12	4,6	3
63	50	727 808 036	0.157	105	54	76	74	30	14	5,8	4
75	65	727 808 037	0.223	125	70	90	78	30	16	6,8	4
90	80	727 808 038	0.325	140	82	108	87	35	17	8,2	4
110	100	727 808 039	0.475	160	105	131	102	41	18	10,0	4
140	125	727 808 041	0.899	190	130	165	124	47	25	12,7	4
160	150	727 808 042	1.246	215	158	188	149	52	25	14,6	4
225	200	727 808 045	2.638	270	206	248	180	55	32	20,5	4
280	250	727 808 047	4.088	325	259	308	240	63	35	25,4	4
315	300	727 808 048	4.960	375	308	346	272	66	35	28,6	4

27 80 80





PROGEF Standard outlet flange adaptor \$8.3/SDR17.6

Model:

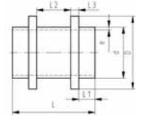
- Material: Polypropylene, PP-R
- Conventional butt-welding according to DVS 2207 part 11
- To wafer check valves Type 369

Attention:

 In conjunction with outlet flange adaptors, flange rings for socket systems must be used.

d [mm]	DN [mm]	Code	kg	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	r [mm]
40	32	727 808 009	0.048	80	37	50	64	30	11	2,3	3
50	40	727 808 010	0.091	90	43	61	67	30	12	2,9	3
63	50	727 808 011	0.096	105	54	76	74	30	14	3,6	4
75	65	727 808 012	0.170	125	70	90	78	30	16	4,3	4
90	80	727 808 013	0.260	140	82	108	87	35	17	5,1	4
110	100	727 808 014	0.355	160	105	131	102	41	18	6,3	4
140	125	727 808 016	0.808	190	130	165	124	47	18	8,0	4
160	150	727 808 017	1.107	215	158	188	149	52	18	9,1	4
225	200	727 808 020	1.225	270	206	248	180	55	24	12,7	4
280	250	727 808 022	3.563	325	259	308	240	63	25	15,9	4
315	300	727 808 023	2.450	375	308	346	272	66	25	17,9	4



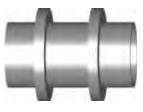


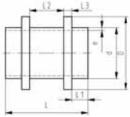
PROGEF Standard fixed point fitting S5/SDR11

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Machined

d [mm]	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
63	IR	727 665 520	0.175	90	122	30	42	10	5.8
75	IR	727 665 521	0.254	110	122	30	42	10	6.8
90	IR	727 665 522	0.342	125	122	30	42	10	8.2
110	IR	727 665 523	0.567	140	142	30	52	15	10.0
125	IR	727 665 524	0.777	160	152	35	52	15	11.4
140	IR	727 665 525	1.023	180	162	40	52	15	12.7
160	IR	727 665 526	1.292	200	162	40	52	15	14.6
180	IR	727 665 527	1.917	225	182	45	52	20	16.4
200	IR	727 665 528	2.365	250	182	45	52	20	18.2
225	IR	727 665 529	3.294	280	192	45	52	25	20.5
250		727 665 530	3.695	280	212	50	62	25	22.7
280		727 665 531	4.997	315	222	50	62	30	25.4
315		727 665 532	6.348	355	222	50	62	30	28.6
355		727 665 533	7.405	400	192	30	62	35	32.2
400		727 665 534	10.432	450	212	30	72	40	36.3
450		727 665 535	14.153	500	232	35	72	45	40.9
500		727 665 536	19.414	560	252	40	72	50	45.4



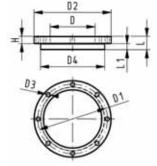


PROGEF Standard fixed point fitting S8 3/SDR17 6

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Machined

d [mm]	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
63	IR	727 665 539	0.138	90	122	30	42	10	3.8
75	IR	727 665 540	0.203	110	122	30	42	10	4.5
90	IR	727 665 541	0.267	125	122	30	42	10	5.4
110	IR	727 665 542	0.438	140	142	30	52	15	6.6
125	IR	727 665 543	0.592	160	152	35	52	15	7.4
140	IR	727 665 544	0.781	180	162	40	52	15	8.3
160	IR	727 665 545	0.971	200	162	40	52	15	9.5
180	IR	727 665 546	1.464	225	182	45	52	20	10.7
200	IR	727 665 547	1.808	250	182	45	52	20	11.9
225	IR	727 665 548	2.549	280	192	45	52	25	13.4
250		727 665 549	2.678	280	212	50	62	25	14.8
280		727 665 550	3.668	315	222	50	62	30	16.6
315		727 665 551	4.666	355	222	50	62	30	18.7
355		727 665 552	5.567	400	192	30	62	35	21.1
400		727 665 553	7.835	450	212	30	72	40	23.7
450		727 665 554	10.552	500	232	35	72	45	26.7
500		727 665 555	14.608	560	252	40	72	50	29.7





Blanking flange set PP-H Combined jointing face flat and serrated metric

Model:

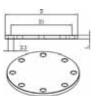
- d63 d315: Backing Flange PP-V with End Blank PP-H
 d355 d630: Backing Flange PP/Steel with End Blank PP-H
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- Bolt circle PN 10

AL: number of holes

L: length of the End Blank

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	H [mm]	L [mm]	L1 [mm]	AL
63	50	10	727 700 611	0.531	75	125	165	18	102	24	30	14	4
75	65	10	727 700 612	0.901	89	145	185	18	122	26	30	16	4
90	80	10	727 700 613	1.054	105	160	200	18	138	27	30	17	8
110	100	10	727 700 614	1.199	125	180	220	18	158	28	30	18	8
125	100	10	727 700 615	1.201	132	180	220	18	158	28	35	25	8
140	125	10	727 700 616	1.748	155	210	250	18	188	30	40	25	8
160	150	10	727 700 617	2.312	175	240	285	22	212	32	40	25	8
180	150	10	727 700 618	2.443	180	240	285	22	212	32	45	30	8
200	200	10	727 700 619	3.961	232	295	340	22	268	34	50	32	8
225	200	10	727 700 620	3.956	235	295	340	22	268	34	50	32	8
250	250	10	727 700 621	5.425	285	350	395	22	320	38	55	35	12
280	250	10	727 700 622	19.781	291	350	395	22	320	38	60	35	12
315	300	10	727 700 623	8.602	335	400	445	22	370	42	65	35	12
355	350	10	727 700 624	23.184	373	460	515	22	430	40	70	40	16
400	400	10	727 700 625	30.304	427	515	574	26	482	40	75	46	16
450	500	10	727 700 626	43.485	510	620	684	26	585	49	80	60	20
500	500	10	727 700 627	46.203	530	620	684	26	585	49	90	60	20
560	600	10	727 700 628	65.823	615	725	796	30	685	58	100	60	20
630	600	10	727 700 629	67.056	642	725	796	30	685	68	110	60	20





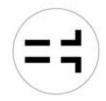
Blanking Flanges PP-H

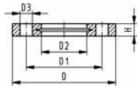
- made out of sheet material
- Bolt circle PN 10

d	DN	PN	Code	L	D	D1	D3	AL
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	
63	50	2,5	700 647 829	15	165	125	18	4
75	65	2,5	700 647 830	15	185	145	18	4
90	80	2,5	700 647 831	15	200	160	18	8
110	100	2,5	700 647 832	15	220	180	18	8
125	100	2,5	700 647 833	20	220	180	18	8
140	125	2,5	700 647 834	25	250	210	18	8
160	150	2,5	700 647 835	25	285	240	22	8
180	150	2,5	700 647 836	30	285	240	22	8
200	200	2,5	700 647 837	35	340	295	22	8
225	200	2,5	700 647 838	35	340	295	22	8
250	250	2,5	700 647 839	40	395	350	22	12
280	250	2,5	700 647 840	45	395	350	22	12
315	300	2,5	700 647 841	50	445	400	22	12
355	350	2,5	700 647 842	55	515	460	22	16
400	400	2,5	700 647 843	65	574	515	26	16
450	500	2,5	700 647 844	65	670	620	26	20
500	500	2,5	700 647 845	75	670	620	26	20
560	600	2,5	700 647 846	85	780	725	30	20
630	600	2,5	700 647 847	95	780	725	30	20

27 70 04 27 70 05







Backing flange PP-V For butt fusion systems metric

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**
- * Combined version, metric-ANSI

AL: number of holes

1) Suitable for socket- and butt fusion systems (no pictograph on flange)

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1) 20	15	16	727 700 406	0.093	95	65.0	28	14	16	4	M12
1) 25	20	16	727 700 407	0.120	105	75.0	34	14	17	4	M12
1) 32	25	16	727 700 408	0.151	115	85.0	42	14	18	4	M12
1) 40	32	16	727 700 409	0.244	140	100.0	51	18	20	4	M16
1) 50	40	16	727 700 410	0.297	150	110.0	62	18	22	4	M16
1) 63	50	16	727 700 411	0.362	165	125.0	78	18	24	4	M16
1) 75	65	16	727 700 412	0.487	185	145.0	92	18	26	4	M16
90	80	16	727 700 513	0.544	200	160.0	108	18	27	8	M16
110	100	16	727 700 514	0.643	220	180.0	128	18	28	8	M16
125	100	16	727 700 515	0.635	220	180.0	135	18	28	8	M16
140	125	16	727 700 516	0.842	250	210.0	158	18	30	8	M16
180	150	16	727 700 518	1.200	285	240.0	188	22	32	8	M20
250	250	16	727 700 521	2.052	395	350.0	288	22	38	12	M20
280	250	16	727 700 522	1.700	395	350.0	294	22	38	12	M20
315	300	16	727 700 523	2.400	445	400.0	338	22	42	12	M20
355	350	10		4.440	515	460.0	376	22	46	16	M20
400	400	10	727 700 525	5.624	574	515.0	430	26	50	16	M24

27 70 04







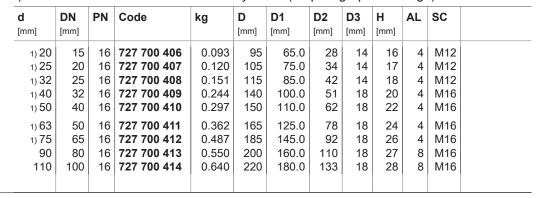
Backing flange PP-V



- With V-groove which applies force evenly on collar
- · With integrated bolt retainers as an assembly aid
- · UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10
- * Combined version, metric-ANSI

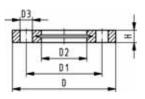
AL: number of holes

1) Suitable for socket- and butt fusion systems (no pictograph on flange)



27 70 05

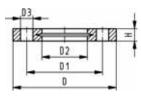




27 70 14 27 70 15







Backing flange PP-V For butt fusion systems Inch ANSI

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- 1) Suitable for socket- and butt fusion systems (no pictograph on flange) AL: number of holes
- * Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
1 1/2	15	20	16	727 701 406	0.091	95	60.0	28	16	16	4	M12
1 3/4	20	25	16	727 701 407	0.120	105	70.0	34	16	17	4	M12
11	25	32	16	727 701 408	0.147	115	79.0	42	16	18	4	M12
1 1 1/4	32	40	16	727 701 409	0.246	140	89.0	51	16	20	4	M16
1 1 ½	40	50	16	727 701 410	0.299	150	98.0	62	16	22	4	M16
12	50	63	16	727 701 411	0.361	165	121.0	78	19	24	4	M16
1 2 1/2	65	75	16	727 701 412	0.492	185	140.0	92	19	26	4	M16
3	80	90	16	727 701 513	0.607	200	152.0	108	19	27	4	M16
4	100	110	16	727 701 514	0.736	229	190.0	128	19	28	8	M16
10	250	250	16	727 701 521	2.241	406	362.0	288	26	38	12	M20
10	250	280	16	727 701 522	2.173	406	362.0	294	26	38	12	M20
12	300	315	16	727 701 523	3.627	483	432.0	338	26	42	12	M20

27 70 14 27 70 15



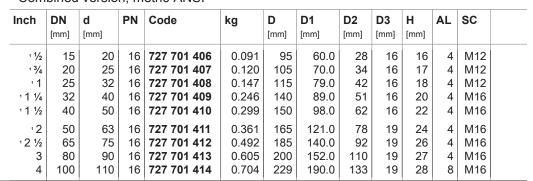
Model:



- With V-groove which applies force evenly on collar
- · With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150
- 727701414, 727700417, 727700419: only for use with original metric flange adaptors
- 1) Suitable for socket- and butt fusion systems (no pictograph on flange)

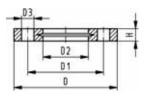
AL: number of holes

* Combined version, metric-ANSI



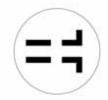


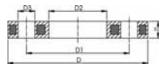




27 70 02 27 70 03







Backing flange PP-Steel For butt fusion systems metric

Model:

- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10

AL: number of holes

32 25 16 727 700 208 0.429 115 85 42 14 16 4 M12 40 32 16 727 700 209 0.621 140 100 51 18 16 4 M16 50 40 16 727 700 210 0.722 150 110 62 18 20 4 M16 63 50 16 727 700 211 1.084 165 125 78 18 20 4 M16 75 65 16 727 700 212 1.349 185 145 92 18 20 4 M16 90 80 16 727 700 313 1.390 200 160 108 18 20 8 M16 110 100 16 727 700 314 1.407 220 180 128 18 20 8 M16 125 16 727 700 316 2.318 250												
25 20 16 727 700 207 0.279 105 75 34 14 12 4 M12 32 25 16 727 700 208 0.429 115 85 42 14 16 4 M12 40 32 16 727 700 209 0.621 140 100 51 18 16 4 M16 50 40 16 727 700 210 0.722 150 110 62 18 20 4 M16 63 50 16 727 700 211 1.084 165 125 78 18 20 4 M16 75 65 16 727 700 212 1.349 185 145 92 18 20 4 M16 90 80 16 727 700 313 1.390 200 160 108 18 20 8 M16 110 100 16 727 700 314 1.407 <td< th=""><th></th><th></th><th>PN</th><th>Code</th><th>kg</th><th> -</th><th></th><th></th><th>-</th><th> </th><th>AL</th><th>sc</th></td<>			PN	Code	kg	-			-		AL	sc
25 20 16 727 700 207 0.279 105 75 34 14 12 4 M12 32 25 16 727 700 208 0.429 115 85 42 14 16 4 M12 40 32 16 727 700 209 0.621 140 100 51 18 16 4 M16 50 40 16 727 700 210 0.722 150 110 62 18 20 4 M16 63 50 16 727 700 211 1.084 165 125 78 18 20 4 M16 75 65 16 727 700 212 1.349 185 145 92 18 20 4 M16 90 80 16 727 700 313 1.390 200 160 108 18 20 8 M16 110 10 16 727 700 314 1.407												
32 25 16 727 700 208 0.429 115 85 42 14 16 4 M12 40 32 16 727 700 209 0.621 140 100 51 18 16 4 M16 50 40 16 727 700 210 0.722 150 110 62 18 20 4 M16 63 50 16 727 700 211 1.084 165 125 78 18 20 4 M16 75 65 16 727 700 212 1.349 185 145 92 18 20 4 M16 90 80 16 727 700 313 1.390 200 160 108 18 20 8 M16 110 100 16 727 700 314 1.407 220 180 128 18 20 8 M16 125 100 16 727 700 315 1.408	20	15	16	727 700 206	0.216	95	65	28	14	12	4	M12
40 32 16 727 700 209 0.621 140 100 51 18 16 4 M16 50 40 16 727 700 210 0.722 150 110 62 18 20 4 M16 63 50 16 727 700 211 1.084 165 125 78 18 20 4 M16 75 65 16 727 700 212 1.349 185 145 92 18 20 4 M16 90 80 16 727 700 313 1.390 200 160 108 18 20 8 M16 110 100 16 727 700 314 1.407 220 180 128 18 20 8 M16 125 100 16 727 700 315 1.408 220 180 135 18 20 8 M16 140 125 16 727 700 316 2.318	25	20	16	727 700 207	0.279	105	75	34	14	12	4	M12
50 40 16 727 700 210 0.722 150 110 62 18 20 4 M16 63 50 16 727 700 211 1.084 165 125 78 18 20 4 M16 75 65 16 727 700 212 1.349 185 145 92 18 20 4 M16 90 80 16 727 700 313 1.390 200 160 108 18 20 8 M16 110 100 16 727 700 314 1.407 220 180 128 18 20 8 M16 125 100 16 727 700 315 1.408 220 180 135 18 20 8 M16 140 125 16 727 700 316 2.318 250 210 158 18 24 8 M16 180 150 16 727 700 318 3.108	32	25	16	727 700 208	0.429	115	85	42	14	16	4	M12
63 50 16 727 700 211 1.084 165 125 78 18 20 4 M16 75 65 16 727 700 212 1.349 185 145 92 18 20 4 M16 90 80 16 727 700 313 1.390 200 160 108 18 20 8 M16 110 100 16 727 700 314 1.407 220 180 128 18 20 8 M16 125 100 16 727 700 315 1.408 220 180 135 18 20 8 M16 140 125 16 727 700 316 2.318 250 210 158 18 24 8 M16 180 150 16 727 700 318 3.108 285 240 188 22 24 8 M20 225 200 16 727 700 320 5.533 <td>40</td> <td>32</td> <td>16</td> <td>727 700 209</td> <td>0.621</td> <td>140</td> <td>100</td> <td>51</td> <td>18</td> <td>16</td> <td>4</td> <td>M16</td>	40	32	16	727 700 209	0.621	140	100	51	18	16	4	M16
75 65 16 727 700 212 1.349 185 145 92 18 20 4 M16 90 80 16 727 700 313 1.390 200 160 108 18 20 8 M16 110 100 16 727 700 314 1.407 220 180 128 18 20 8 M16 125 100 16 727 700 315 1.408 220 180 135 18 20 8 M16 140 125 16 727 700 316 2.318 250 210 158 18 24 8 M16 180 150 16 727 700 318 3.108 285 240 188 22 24 8 M20 200 200 16 727 700 320 5.533 340 295 235 22 27 8 M20 250 250 16 727 700 321 6.632	50	40	16	727 700 210	0.722	150	110	62	18	20	4	M16
90 80 16 727 700 313 1.390 200 160 108 18 20 8 M16 110 100 16 727 700 314 1.407 220 180 128 18 20 8 M16 125 100 16 727 700 315 1.408 220 180 135 18 20 8 M16 140 125 16 727 700 316 2.318 250 210 158 18 24 8 M16 180 150 16 727 700 318 3.108 285 240 188 22 24 8 M20 200 200 16 727 700 319 5.600 340 295 235 22 27 8 M20 250 250 16 727 700 321 6.632 395 350 288 22 30 12 M20 280 250 16 727 700 322 6	63	50	16	727 700 211	1.084	165	125	78	18	20	4	M16
110 100 16 727 700 314 1.407 220 180 128 18 20 8 M16 125 100 16 727 700 315 1.408 220 180 135 18 20 8 M16 140 125 16 727 700 316 2.318 250 210 158 18 24 8 M16 180 150 16 727 700 318 3.108 285 240 188 22 24 8 M20 200 200 16 727 700 319 5.600 340 295 235 22 27 8 M20 250 250 16 727 700 320 5.533 340 295 238 22 27 8 M20 250 250 16 727 700 321 6.632 395 350 288 22 30 12 M20 280 250 16 727 700 322 <td< td=""><td>75</td><td>65</td><td>16</td><td>727 700 212</td><td>1.349</td><td>185</td><td>145</td><td>92</td><td>18</td><td>20</td><td>4</td><td>M16</td></td<>	75	65	16	727 700 212	1.349	185	145	92	18	20	4	M16
110 100 16 727 700 314 1.407 220 180 128 18 20 8 M16 125 100 16 727 700 315 1.408 220 180 135 18 20 8 M16 140 125 16 727 700 316 2.318 250 210 158 18 24 8 M16 180 150 16 727 700 318 3.108 285 240 188 22 24 8 M20 200 200 16 727 700 319 5.600 340 295 235 22 27 8 M20 225 200 16 727 700 320 5.533 340 295 238 22 27 8 M20 250 250 16 727 700 321 6.632 395 350 288 22 30 12 M20 280 250 16 727 700 322 <td< td=""><td>90</td><td>80</td><td>16</td><td>727 700 313</td><td>1.390</td><td>200</td><td>160</td><td>108</td><td>18</td><td>20</td><td>8</td><td>M16</td></td<>	90	80	16	727 700 313	1.390	200	160	108	18	20	8	M16
125 100 16 727 700 315 1.408 220 180 135 18 20 8 M16 140 125 16 727 700 316 2.318 250 210 158 18 24 8 M16 180 150 16 727 700 318 3.108 285 240 188 22 24 8 M20 200 200 16 727 700 319 5.600 340 295 235 22 27 8 M20 250 250 16 727 700 320 5.533 340 295 238 22 27 8 M20 250 250 16 727 700 321 6.632 395 350 288 22 30 12 M20 280 250 16 727 700 322 6.573 395 350 294 22 30 12 M20 315 300 16 727 700 323 <t< td=""><td></td><td></td><td>16</td><td>727 700 314</td><td></td><td></td><td></td><td>128</td><td>1</td><td>20</td><td>8</td><td>M16</td></t<>			16	727 700 314				128	1	20	8	M16
180 150 16 727 700 318 3.108 285 240 188 22 24 8 M20 200 200 16 727 700 319 5.600 340 295 235 22 27 8 M20 225 200 16 727 700 320 5.533 340 295 238 22 27 8 M20 250 250 16 727 700 321 6.632 395 350 288 22 30 12 M20 280 250 16 727 700 322 6.573 395 350 294 22 30 12 M20 315 300 16 727 700 323 7.903 445 400 338 22 34 12 M20		100	16	727 700 315	1.408	220	180	135	18	20	8	M16
200 200 16 727 700 319 5.600 340 295 235 22 27 8 M20 225 200 16 727 700 320 5.533 340 295 238 22 27 8 M20 250 250 16 727 700 321 6.632 395 350 288 22 30 12 M20 280 250 16 727 700 322 6.573 395 350 294 22 30 12 M20 315 300 16 727 700 323 7.903 445 400 338 22 34 12 M20	140	125	16	727 700 316	2.318	250	210	158	18	24	8	M16
200 200 16 727 700 319 5.600 340 295 235 22 27 8 M20 225 200 16 727 700 320 5.533 340 295 238 22 27 8 M20 250 250 16 727 700 321 6.632 395 350 288 22 30 12 M20 280 250 16 727 700 322 6.573 395 350 294 22 30 12 M20 315 300 16 727 700 323 7.903 445 400 338 22 34 12 M20	180	150	16	727 700 318	3.108	285	240	188	22	24	8	M20
225 200 16 727 700 320 5.533 340 295 238 22 27 8 M20 250 250 16 727 700 321 6.632 395 350 288 22 30 12 M20 280 250 16 727 700 322 6.573 395 350 294 22 30 12 M20 315 300 16 727 700 323 7.903 445 400 338 22 34 12 M20		200	16	727 700 319	1		295	235	l	27	8	M20
250 250 16 727 700 321 6.632 395 350 288 22 30 12 M20 280 250 16 727 700 322 6.573 395 350 294 22 30 12 M20 315 300 16 727 700 323 7.903 445 400 338 22 34 12 M20				727 700 320					1		8	_
315 300 16 727 700 323 7.903 445 400 338 22 34 12 M20									1			_
315 300 16 727 700 323 7.903 445 400 338 22 34 12 M20	280	250	16	727 700 322	6.573	395	350	294	22	30	12	M20
									l			_
	355	350	16	727 700 324	14.587	515	460	376	22	40	16	M20
						1			1			M24

27 70 12



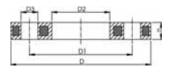
Backing flange PP-Steel For butt fusion systems Inch ANSI

Model:

- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150

AL: number of holes



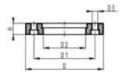


d [inch]	DN [mm]	d [mm]	PN	Code	kg	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	SC	
						-							
1/2	15	20	16	727 701 206	0.213	60	28	16	95	12	4	M12	
3/4	20	25	16	727 701 207	0.260	70	34	16	105	12	4	M12	
1	25	32	16	727 701 208	0.416	79	42	16	115	16	4	M12	
1 1/4	32	40	16	727 701 209	0.730	89	51	16	140	16	4	M16	
1 ½	40	50	16	727 701 210	0.809	98	62	16	150	18	4	M16	
2	50	63	16	727 701 211	0.866	121	78	19	165	18	4	M16	
2 1/2	65	75	16	727 701 212	1.117	140	92	19	185	18	4	M16	
3	80	90	16	727 701 313	1.499	152	108	19	200	20	4	M16	
4	100	110	16	727 701 314	1.739	190	128	19	229	20	8	M16	
8	200	200	16	727 701 319	5.440	298	235	22	340	27	8	M20	
8	200	225	16	727 701 320	5.621	298	238	22	340	27	8	M20	

24 70 04







Profiled backing flange PP/Steel For butt fusion systems metric

Model:

- PP with glass-fibre reinforcement and GGG 50 insert
- · UV-resistant. Applicable for outside applications
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- Bolt circle PN 10

Note:

flat side = bolt side profiled side = flange adaptor side

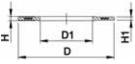
AL: number of holes

* Galvanized steel, suitable for underground laying

					-						
d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
450	500	10	724 700 426	25.600	685	620	517	26	54	20	M24
500	500	10	724 700 427	21.061	685	620	533	26	54	20	M24
560	600	10	724 700 428	35.000	796	725	618	30	64	20	M27
630	600	10	724 700 429	32.500	800	725	645	30	58	20	M27
710	700	6	724 700 430	28.600	912	840	740	30	49	24	M27
800	800	6	724 700 431	39.300	1026	950	843	33	58	24	M30
900	900	6	724 700 432	48.500	1129	1050	947	33	62	28	M30

EPDM 48 44 07 FPM 49 44 07





Profile flange gasket metric

Model:

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore EPDM, 75° Shore FPM
- EPDM: approved acc. to DVGW W 270, KTW recommendation
- · Centering on the inner diameter of the screw crown
- · material steel insert: carbon steel

di FA are the suitable inner diameters of flange adaptors

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
16	10	16	748 440 705	749 440 705	0.012	46	16	4	3	6 - 16
20	15	16	748 440 706	749 440 706	0.013	51	20	4	3	10 - 20
25	20	16	748 440 707	749 440 707	0.014	61	22	4	3	12 - 22
32	25	16	748 440 708	749 440 708	0.019	71	28	4	3	18 - 28
40	32	16	748 440 709	749 440 709	0.026	82	40	4	3	30 - 40
50	40	16	748 440 710	749 440 710	0.039	92	46	4	3	36 - 46
63	50	16	748 440 711	749 440 711	0.050	107	58	5	4	48 - 58
75	65	16	748 440 712	749 440 712	0.082	127	69	5	4	59 - 69
90	80	16	748 440 713	749 440 713	0.083	142	84	5	4	73 - 84
110	100	16	748 440 714	749 440 714	0.127	162	104	6	5	94 - 104
125	100	16	748 440 715	749 440 715	0.105	162	123	6	5	113 - 123
140	125	16	748 440 716	749 440 716	0.173	192	137	6	5	127 - 137
160 / 180	150	16	748 440 717	749 440 717	0.207	218	160	8	6	150 - 160
200	200	16	748 440 719	749 440 719	0.263	273	203	8	6	192 - 203
225	200	16	748 440 720	749 440 720	0.255	273	220	8	6	207 - 220
250	250	16	748 440 721	749 440 721	0.482	328	252	8	6	238 - 252
280	250	16	748 440 722	749 440 722	0.323	328	274	8	6	264 - 274
315	300	16	748 440 723	749 440 723	0.549	378	306	8	6	296 - 306
355	350	16	748 440 724	749 440 724	0.870	438	355	10	7	340 - 355
400	400	16	748 440 725	749 440 725	1.088	489	400	10	7	385 - 400
450	500	16	748 440 726	749 440 726	0.718	594	403	10	7	393 - 403
500	500	16	748 440 727	749 440 727	0.718	594	447	10	7	437 - 447
560	600	16	748 440 728	749 440 728	0.923	695	494	10	7	484 - 494
630	600	16	748 440 729	749 440 729	0.923	695	555	10	7	545 - 555

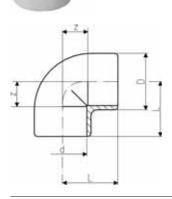
Fittings for Socket Fusion

PROGEF Standard elbow 90°

Model

Material: PP-H

* use pipe SDR 7.4



	P P -	ODIT 7.4				
d	PN	Code	kg	D	L	z
[mm]				[mm]	[mm]	[mm]
* 16	10	727 100 105	0.014	26	25	12
20		727 100 106	0.020	31	28	14
25	10	727 100 107	0.029	36	32	16
32	10	727 100 108	0.044	44	38	20
40	10	727 100 109	0.071	54	44	24
50	10	727 100 110	0.121	66	51	28
63	10	727 100 111	0.228	82	62	35
75	10	727 100 112	0.301	93	76	45
90	10	727 100 113	0.477	110	88	53
110	10	727 100 114	0.869	134	106	65

27 15 01

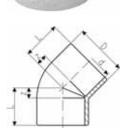
27 10 01

PROGEF Standard elbow 45°

Model:

Material: PP-H

* use pipe SDR 7.4



	10.10.0	_				
d	PN	Code	kg	D	L	z
[mm]				[mm]	[mm]	[mm]
* 16	10	727 150 105	0.009	23	20	7
20	10	727 150 106	0.016	31	21	7
25	10	727 150 107	0.024	36	24	8
32	10	727 150 108	0.036	44	28	10
40	10	727 150 109	0.059	53	33	13
50	10	727 150 110	0.084	64	36	13
63	10	727 150 111	0.183	82	43	16
75	10	727 150 112	0.219	93	51	20
90	10	727 150 113	0.336	114	58	23
110	10	727 150 114	0.657	134	68	27

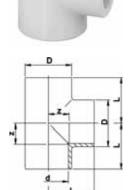
27 20 01

PROGEF Standard tee 90° equal

Model:

Material: PP-H

* use pipe SDR 7.4



d	PN	Code	kg	D	L	z
[mm]				[mm]	[mm]	[mm]
* 16	10	727 200 105	0.020	26	25	12
20	10	727 200 106	0.027	31	28	14
25	10	727 200 107	0.039	36	32	16
32	10	727 200 108	0.057	44	38	20
40	10	727 200 109	0.095	54	44	24
50	10	727 200 110	0.161	66	51	28
63	10	727 200 111	0.286	82	62	35
75	10	727 200 112	0.390	93	76	45
90	10	727 200 113	0.727	114	88	53
110	10	727 200 114	1.062	134	106	65

27 91 01





PROGEF Standard socket equal

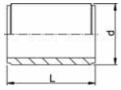
Model:

Material: PP-H* use pipe SDR 7.4

				,		
d [mm]	PN	Code	kg	D [mm]	L [mm]	Z [mm]
* 40	40	707 040 405	0.040	- 00	00	
* 16	10	727 910 105	0.010	26	33	7
20	10	727 910 106	0.013	31	35	7
25	10	727 910 107	0.019	36	39	7
32	10	727 910 108	0.026	44	43	7
40	10	727 910 109	0.041	54	48	8
50	10	727 910 110	0.072	66	54	8
63	10	727 910 111	0.118	82	62	8
75	10	727 910 112	0.147	93	70	8
90	10	727 910 113	0.238	112	81	11
110	10	727 910 114	0.425	134	96	14

27 91 09





PROGEF Standard barrel nipple

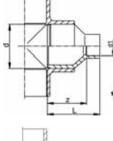
Model:

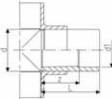
- Material: PP-H
- · With fusion sockets on both sides
- For the shortest possible distance between fittings
- Overall length L = 2 x fusion length
- * In these two sizes, stiffeners Code No. 727 900 006 (20 x 1.9) and 727 900 007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

d [mm]	PN	Code	kg	L [mm]	e [mm]
[]				[]	[]
* 20	10	727 910 906	0.005	37	1.9
* 25	10	727 910 907	0.006	41	2.3
32	10	727 910 908	0.010	45	2.9
40	10	727 910 909	0.017	50	3.7
50	10	727 910 910	0.029	55	4.6
63	10	727 910 911	0.058	64	5.8
75	10	727 910 912	0.095	76	6.8
90	10	727 910 913	0.163	90	8.2
110	10	727 910 914	0.305	108	10.0

27 91 03







PROGEF Standard reducer

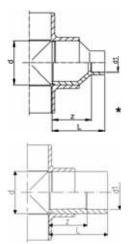
Model:

• Material: PP-H

Note:

* Fusion spigot and socket

	J J	901	and occitor			·
d	d1	PN	Code	kg	L	z
[mm]	[mm]				[mm]	[mm]
20	16	10	727 910 334	0.013	35	22
25	16	10	727 910 338	0.010	38	25
25	20	10	727 910 337	0.012	37	23
32	20	10	727 910 342	0.016	43	29
32	25	10	727 910 341	0.019	43	27
* 40	20	10	727 910 348	0.022	48	34
						_
* 40	25	10	727 910 347	0.025	48	32
40	32	10	727 910 346	0.030	48	30
* 50	20	10	727 910 355	0.034	54	40
* 50	25	10	727 910 354	0.034	54	38
* 50	32	10	727 910 353	0.039	54	36
50	40	10	727 910 352	0.048	54	34
* 63	25	10	727 910 361	0.054	64	46
* 63	32	10	727 910 360	0.062	64	46
* 63	40	10	727 910 359	0.069	64	44
	40	10				
63	50	10	727 910 358	0.083	64	41
75	63	10	727 910 364	0.098	62	35



27 96 01





PROGEF Standard end cap

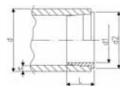
Model:

Material: PP-H* use pipe SDR 7.4

P.P 0	0			
PN	Code	kg	D [mm]	L [mm]
10	727 960 105	0.006	25	20
				27
10	727 960 107	0.015	36	30
10	727 960 108	0.023	44	34
10	727 960 109	0.035	53	38
10	727 960 110	0.061	65	44
10	727 960 111	0.102	80	51
10	727 960 112	0.149	91	65
10	727 960 113	0.277	111	77
10	727 960 114	0.411	137	93
	10 10 10 10 10 10 10 10 10	10 727 960 105 10 727 960 106 10 727 960 107 10 727 960 108 10 727 960 109 10 727 960 110 10 727 960 111 10 727 960 112 10 727 960 113	PN Code kg 10 727 960 105 0.006 10 727 960 106 0.009 10 727 960 107 0.015 10 727 960 108 0.023 10 727 960 109 0.035 10 727 960 110 0.061 10 727 960 111 0.102 10 727 960 112 0.149 10 727 960 113 0.277	PN Code kg D [mm] 10 727 960 105 0.006 25 10 727 960 106 0.009 30 10 727 960 107 0.015 36 10 727 960 108 0.023 44 10 727 960 109 0.035 53 10 727 960 110 0.061 65 10 727 960 111 0.102 80 10 727 960 112 0.149 91 10 727 960 113 0.277 111

27 90 00





PROGEF Standard stiffener

Model:

• Material: PP-H

 Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing suring the heating and jointing process.

d	е	Code	kg	L	d1	d2
[mm]	[mm]			[mm]	[mm]	[mm]
20	1,9	727 900 006	0.001	10	14	18
25	2,3	727 900 007	0.004	11	18	23

Adaptor fittings for socket fusion

PROGEF Standard elbow 90° metric Rp

Model

- Material: PP-H
 With fusion see
 - With fusion socket metric and parallel female thread Rp, reinforced
 - · Reinforcing ring stainless (A2)
 - · Connection to plastic or metal threads
 - · Do not use thread sealing pastes that are harmful to PP
 - · Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	Rp [inch]	PN	Code	kg	D [mm]	L [mm]	z1 [mm]	z2 [mm]
20	1/2	10	727 100 206	0.022	30	28	14	14
25	3/4	10	727 100 207	0.035	35	32	16	16
32	1	10	727 100 208	0.057	44	38	20	20
40	1 1/4	10	727 100 209	0.087	54	44	24	24

27 20 02

27 10 02

PROGEF Standard tee 90° metric Rp

Model:

- WIOGE
- Material: PP-H
 Line with fusion seek
- Line, with fusion socket metric
- Branch, with BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- · Connection to plastic or metal threads
- · Do not use thread sealing pastes that are harmful to PP
- · Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	Rp [inch]	PN	Code	kg	D [mm]	D1 [mm]	L [mm]	z1 [mm]	z2 [mm]
20 25	1/ ₂ 3/ ₄	10	727 200 206 727 200 207	0.030 0.042	31 36	30 35	28 32	14 16	_
32 40	1 1/4	_	727 200 208 727 200 209	0.071 0.107	44 54	45 55	38 44	20 24	20 24



27 91 30

PROGEF Standard adaptor socket Metric Inch BS

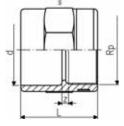
- Material: PP-H
- · With fusion socket metric and BS Inch (ASTM)

	d	d1
	[mm]	[inch]
1 + -1	20	1/
	25	3/
	32	
- Z	40	1 1
	50	1 ½
	63	2

d	d1	PN	Code	kg	d2	L	Z
[mm]	[inch]				[mm]	[mm]	[mm]
20	1/2	10	727 913 006	0.014	31	35	7
25	3/4	10	727 913 007	0.019	36	39	7
32	1	10	727 913 008	0.025	44	43	7
40	1 1/4	10	727 913 009	0.040	54	48	8
50	1 ½	10	727 913 010	0.100	66	54	8
63	2	10	727 913 011	0.130	82	62	8
90	3	10	727 913 013	0.260	112	81	10
110	4	10	727 913 014	0.389	134	96	12

27 91 02





PROGEF Standard adaptor socket metric Rp

Model:

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- · Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	Rp	PN	Code	kg	L	s	z
[mm]	[inch]				[mm]	[mm]	[mm]
20	3/8	10	727 910 205	0.017	35	32	7
20	1/2	10	727 910 206	0.018	40	32	7
25	3/4	10	727 910 207	0.025	42	36	7
32	1	10	727 910 208	0.040	48	46	7
40	1 1/4	10	727 910 209	0.064	53	55	7
50	1 1/2	10	727 910 210	0.089	54	65	9
63	2	10	727 910 211	0.144	62	80	9

27 91 42





Adaptor Sockets, PP-H metric - NPT

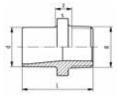
Model:

- · Material: PP-H
- · With fusion socket metric and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- · Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	NPT	PN	Code	kg	L	s	z
[mm]	[inch]				[mm]	[mm]	[mm]
20	1/2	10	727 914 266	0.018	40	32	7
25	3/4	10	727 914 267	0.023	42	36	7
32	1	10	727 914 268	0.039	48	46	7
40	1 1/4	10	727 914 269	0.056	53	55	7
50	1 ½	10	727 914 270	0.095	54	65	9
63	2	10	727 914 271	0.145	62	80	9

27 91 05





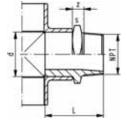
PROGEF Standard adaptor nipple metric R

- Material: PP-H
- With fusion spigot metric and R tapered male thread
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	R	PN	Code	kg	L	s	z
[mm]	[inch]				[mm]	[mm]	[mm]
16	3/8	10	727 910 505	0.008	37	27	13
20	1/2	10	727 910 506	0.011	42	32	13
25	3/4	10	727 910 507	0.015	46	36	13
32	1	10	727 910 508	0.027	52	46	12
40	1 1/4	10	727 910 509	0.040	56	55	14
50	1 ½	10	727 910 510	0.061	60	65	15
63	2	10	727 910 511	0.100	69	80	16

27 91 45





PROGEF Standard adaptor nipple metric NPT

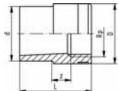
Model:

- Material: PP-H
- With fusion spigot metric and NPT tapered male thread
- · Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	NPT	PN	Code	kg	s	L	z
[mm]	[inch]				[mm]	[mm]	[mm]
16	3/8	10	727 914 555	0.008	27	37	13
20	1/2	10	727 914 556	0.013	32	42	13
25	3/4	10	727 914 557	0.015	36	46	13
32	1	10	727 914 558	0.026	46	52	12
40	1 1/4	10	727 914 559	0.041	55	56	14
50	1 ½	10	727 914 560	0.061	65	60	15
63	2	10	727 914 561	0.185	80	69	16

27 91 04





PROGEF Standard reducing bush metric Rp

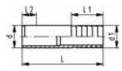
Model:

- · Material: PP-H
- With fusion spigot metric and BSP parallel female thread, reinforced
- Reinforcing ring stainless (A2)
- · Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	Rp [inch]	PN	Code	kg	L [mm]	z [mm]
20	1/4	10	727 910 433	0.011	36	7
20	3/8	10	727 910 434	0.011	36	7
25	1/2	10	727 910 437	0.015	45	6
32	3/4	10	727 910 441	0.022	47	8
40	1	10	727 910 446	0.039	53	9
50	1 1/4	10	727 910 452	0.061	55	10

27 96 04





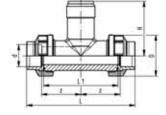
PROGEF Standard hose connector metric

- Material: PP-H
- With socket fusion spigot metric and parallel hose connection

d	d1	PN	Code	kg	L	L1	L2
[mm]	[mm]				[mm]	[mm]	[mm]
20	20	10	727 960 406	0.008	78	27	14
25	25	10	727 960 407	0.014	91	36	16
32	32	10	727 960 408	0.025	100	36	18
40	40	10	727 960 409	0.038	104	42	20
50	50	10	727 960 410	0.061	90	48	23
63	60	10	727 960 411	0.084	100	50	27

27 31 00





PROGEF Standard installation fitting type 310 S5/SDR11 for socket systems metric

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- · Union end with fusion socket PP-H

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

Attention:

· sensor length depends on installation fitting

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg
20	15	10	727 310 006	727 310 036	0.136
25	20	10	727 310 007	727 310 037	0.190
32	25	10	727 310 008	727 310 038	0.250
40	32	10	727 310 009	727 310 039	0.356
50	40	10	727 310 010	727 310 040	0.510
63	50	10	727 310 011	727 310 041	0.645

d [mm]	D [mm]	z [mm]	L [mm]	L1 [mm]	H [mm]	Sensor Type
20	48	55	128	90	76	flow X0, pH XX
25	58		142	100	78	flow X0, pH XX
32	65		156	110	81	flow X0, pH XX
40	79	65	160	110	85	flow X0, pH XX
50	91		176	120	89	flow X0, pH XX
63	105		194	130	95	flow X0, pH XX

27 31 20

PROGEF Standard installation fitting type 312 metric

Model:



- Material: PP-H
- Threaded outlet 1 1/4" NPSM
- Top saddle with EPDM gasket
- · Stainless steel bolts and nuts

Range of use:

• compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

Attention:

- · sensor length depends on installation fitting
- working temperature max. +40°C (water)

		İ
-		-
B		-
_[1	
	<u>A</u>	

d [mm]	DN [mm]	PN	Code	kg	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	Sensor Type	
75 90 110	80	8 8 8	727 312 073	0.488 0.514 0.602	34 34 34	78 86 98	62 69 79	172 186 206	88 87 86	flow X1	

Unions for socket fusion

EPDM 27 51 01 FPM 27 52 01

PROGEF Standard union metric

Model:



- Material: PP-H Fusion socket metric
- D75-110 with new thread geometry, now rated PN10 up to d110
- Jointing face: With O-ring groove
- For the dimensions d75-110 please see instructions for the installation

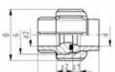
										_
d	PN	EPDM	FPM	kg	D	G	L1	L2	z	z1
[mm]		Code	Code		[mm]	[inch]	[mm]	[mm]	[mm]	[mm]
16	10	727 510 155	727 520 155	0.020	35	3/4	18	24	5	11
20	10	727 510 156	727 520 156	0.038	48	1	19	26	5	12
25	10	727 510 157	727 520 157	0.062	58	1 1/4	21	28	5	12
32	10	727 510 158	727 520 158	0.080	65	1 1/2	23	30	5	12
40	10	727 510 159	727 520 159	0.137	79	2	25	34	5	14
50	10	727 510 160	727 520 160	0.136	91	2 1/4	28	39	5	16
63	10	727 510 161	727 520 161	0.251	111	2 3/4	32	47	5	20
75	10	727 510 172	727 520 172	0.432	135	S107,5x3,6	36	51	5	20
90	10	727 510 173	727 520 173	0.625	158	S127,5x3,6	42	55	7	20
110	10	727 510 174	727 520 174	1.009	188	S152,5x3,6	49	54	7	12
	1	1	1	1	1	1	1	1	1	1

27 51 30

PROGEF Standard adapter union metric BS Inch / ASTM

Model:





•	Material: PP-H
•	Fusion socket metric

· Jointing face: With O-ring groove

	_		Ū	•						
d	d2	PN	Code	kg	D	G	L1	L2	z1	z2
[mm]					[mm]	[inch]	[mm]	[mm]	[mm]	[mm]
20	1/2	10	727 513 006	0.041	48	1	19	26	5	12
25	3/4	10	727 513 007	0.061	58	1 1/4	21	28	5	12
32	1	10	727 513 008	0.028	65	1 1/2	23	30	5	12
40	1 1/4	10	727 513 009	0.108	79	2	25	34	5	14
50	1 ½	10	727 513 010	0.133	91	2 1/4	28	39	5	16
63	2	10	727 513 011	0.252	111	2 3/4	32	47	5	20

67 05 02

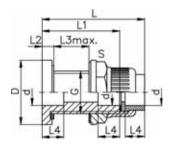
PROGEF Standard tank adaptor





• End connection: Union with fusion socket metric

· Gasket: flat gasket EPDM



d [mm]	Code	kg	G [inch]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 max [mm]	L4 [mm]	s [mm]	Diameter of bore in tank side [mm]	
20	167 050 226	0.098	1	56	89	67	11	30	16	38	35	
25	167 050 227	0.153	1 1/4	65	96	72	12	32	18	47	43	
32	167 050 228	0.185	1 1/2	70	100	75	12	33	20	53	49	
40	167 050 229	0.292	2	95	106	78	12	32	22	75	61	
50	167 050 230	0.308	2 1/4	95	112	82	13	32	25	75	67	
63	167 050 231	0.493	2 3/4	115	112	87	13	33	29	101	83	

Instructions for the installation of unions in PP, PE d 75, d 90 and d 110

The newest generation of plastic unions in the above materials and dimensions has been fitted with a state-of-the-art, plastics-oriented buttress thread. You therefore have a product in which the nominal pressure and the safety reserve have been dramatically increased. Also new are the butt fusion versions. In this connection, there are a few points which you must be aware of.

Caution



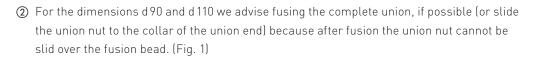
① The threads of the union nut and bush have been reworked for PP, PVDF and PE! When using individual parts, please check prior to installation if the threads of the union bush and the union nut coincide.

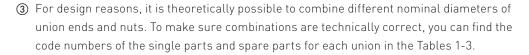
Union bush with trapezoid thread on union nut with trapezoid thread or

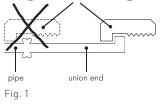
Union bush with buttress thread on union nut with buttress thread

Tip

To make installation of the union easier, wet the union nut.







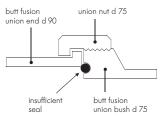


Fig. 2

Caution

Only use union bushes and union ends with the same nominal diameter!

A butt fusion union bush d75 may not be combined with a butt fusion union end d90 to form a reducer because this can cause leakage, as illustrated to the left. (Fig. 2)

Markings on the union nuts SF/MS = socket fusion, BF/ST = butt fusion

SF/MS 75 specified for socket fusion d 75

BF/ST 75–90 specified for butt fusion d 75–75 and d 90–90

SF/MS 90 specified socket fusion d 90 BF/ST 110 specified butt fusion d 110

110 specified for socket fusion d 110

Tip

We recommend changing materials only for the union end for installation reasons.

Selection tables for single parts and spare parts



Table 1
Single parts for **PP-H** unions d75, d90 and d110

J				,			
d	BF/ST	SF/MS	SDR	PN	Code union end	Code union bush	Code union nut*
75	==		11	10	727 608 512	727 648 512	727 690 422
	==		17.6	6	727 608 412	727 648 412	727 690 422
		=	_	10	727 600 112	727 640 172	727 690 422
90	==		11	10	727 608 513	727 648 513	727 690 422
	==		17.6	6	727 608 413	727 648 413	727 690 422
		==	_	10	727 600 113	727 640 173	727 690 423
110	==		11	10	727 608 514	727 648 514	727 690 423
	===		17.6	6	727 608 414	727 648 414	727 690 423
		===	_	10	727 600 114	727 640 174	727 690 424

Table 2 Single parts for $\textbf{PE100}\$ unions d75, d90 and d110

d	BF/ST	SF/MS SDF	R PN	Code union end	Code union bush	Code union nut*
75	==	11	10	753 608 612	753 648 612	727 690 442
	==	17.6	5 10	753 608 412	753 648 412	727 690 442
90	==	11	10	753 608 613	753 648 613	727 690 442
	==	17.6	5 10	753 608 413	753 648 413	727 690 442
110	==	11	10	753 608 614	753 648 614	727 690 443
	==	17.6	5 10	753 608 414	753 648 414	727 690 443

Table 3 O-Rings for PP-H, PE 100

d	BF/ST	SF/MS SDR	PN	Code O-Ring EPDM ¹	Code O-Ring FPM ¹
75	==		16	748 410 013	749 410 013
		=	16	748 410 014	749 410 014
90	==		16	748 410 014	749 410 014
		=	16	748 410 015	749 410 015
110	==		16	748 410 015	749 410 015
		=	16	748 410 016	749 410 016

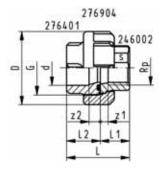
^{*} Union nuts overlap several dimensions

¹ Flange adaptor O-rings, one size smaller in nominal dimensions, are used for the d75–110 butt-fusion unions

Adaptor Unions for Socket Fusion

27 53 03





PROGEF Standard adaptor union PP-H/malleable iron galvanised **Metric Rp**

Model:

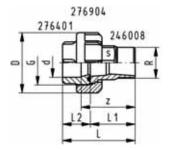
- Union End: malleable iron with parallel female thread Rp
- Union Bush: fusion socket PP-H metric
- Union Nut: PP-H
- Gasket: O-Ring EPDM No. 48 41 00

d	Rp	PN	Code	kg	D	L	L1	L2	z1	z2	G	s
[mm]	[inch]				[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[inch]	[mm]
20	1/2	10	727 530 306	0.073	43	48	22	26	9	10	1	25
25	3/4	10	727 530 307	0.118	51	50	22	28	7	10	1 1/4	31
32	1	10	727 530 308	0.199	58	56	26	30	9	10	1 1/2	38
40	1 1/4	10	727 530 309	0.276	72	65	31	34	12	12	2	48
50	1 ½	10	727 530 310	0.317	83	72	33	39	14	14	2 1/4	54
63	2	10	727 530 311	0.579	100	82	35	47	11	18	2 3/4	67

27 53 08







PROGEF Standard adaptor union PP-H/malleable iron galvanised **Metric R**

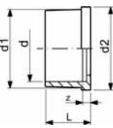
Model:

- Union End: Malleable iron with taper male thread R
- · Union Bush: fusion socket PP-H metric
- Union Nut: PP-H
- Gasket: O-Ring EPDM No. 48 41 00

d [mm]	R [inch]	PN	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	G [inch]	S [mm]
20	1/2	10	727 530 806	0.112	43	66	40	26	50	1	25
25	3/4	10	727 530 807	0.171	51	71	43	28	53	1 1/4	31
32	1	10	727 530 808	0.236	58	78	48	30	58	1 1/2	38
40	1 1/4	10	727 530 809	0.379	72	91	57	34	69	2	48
50	1 ½	10	727 530 810	0.512	83	98	59	39	73	2 1/4	54
63	2	10	727 530 811	0.763	100	109	62	47	80	2 3/4	67

34 60 01





Union Ends, PE80

- · With fusion socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

d	PN	Code	kg	d1	d2	L	L1	z
[mm]				[mm]	[mm]	[mm]	[mm]	[mm]
20	10	734 600 106	0.006	28	30	19	5	5
25	10	734 600 107	0.013	36	39	21	5	5
32	10	734 600 108	0.015	42	45	23	6	5
40	10	734 600 109	0.026	53	57	25	6	5
50	10	734 600 110	0.025	59	63	28	7	5
63	10	734 600 111	0.044	74	79	32	8	5

24 60 08

2 d d d

Union end malleable iron galvanized R

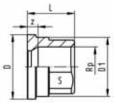
Model

• Union End: Malleable iron with taper male thread R

			_					
d	R	Code	kg	D	D1	L	z	s
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]	[mm]
20	1/2	724 600 806	0.069	30	27	40	25	23
25	3/4	724 600 807	0.115	39	36	43	27	30
32	1	724 600 808	0.161	44	41	48	29	36
40	1 1/4	724 600 809	0.294	56	52	57	36	48
50	1 1/2	724 600 810	0.353	62	58	59	37	54
63	2	724 600 811	0.570	78	73	62	36	66

24 60 02





Union end malleable iron galvanized Rp

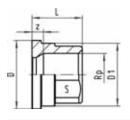
Model:

• Union End: malleable iron with parallel female thread Rp

d	Rp	PN	Code	kg	D	D1	L	z	s
[mm]	[inch]				[mm]	[mm]	[mm]	[mm]	[mm]
20	1/2	16	724 600 206	0.037	30	27	22	9	25
25	3/4	16	724 600 207	0.072	39	36	22	7	31
32	1	16	724 600 208	0.088	44	41	26	9	38
40	1 1/4	16	724 600 209	0.172	56	52	31	12	48
50	1 ½	16	724 600 210	0.210	62	58	33	14	54
63	2	16	724 600 211	0.331	78	73	35	11	67

20 60 02





Union end brass Rp

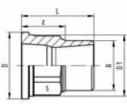
Model.

• Union End: Brass with parallel female thread Rp

			•					
d [mm]	Rp [inch]	Code	kg	D [mm]	D1 [mm]	z [mm]	L [mm]	s [mm]
20	1/	720 600 236	0.059	30	28	5	22	25
	1/2	1				_		
25	3/4	720 600 237	0.100	39	36	6	25	30
32	1	720 600 238	0.128	45	42	6	27	36
40	1 1/4	720 600 239	0.211	56	53	7	31	46
50	1 1/2	720 600 240	0.324	62	59	7	35	55
63	2	720 600 241	0.510	78	74	8	40	65
75	2 ½	720 600 242	0.893	100	92	10	47	85
90	3	720 600 243	1.395	121	110	11	52	95
							1	

20 60 02





Union end brass R

Model:

• Union End: Brass with taper male thread R

d [mm]	R [inch]	Code	kg	D [mm]	D1 [mm]	L [mm]	z [mm]	s [mm]
20	1/2	720 600 246	0.092	30	28	37	22	25
25	3/4	720 600 247	0.151	39	36	42	25	30
32	1	720 600 248	0.216	45	42	46	28	36
40	1 1/4	720 600 249	0.408	56	53	52	32	46
50	1 ½	720 600 250	0.538	62	59	56	36	55
63	2	720 600 251	0.859	78	74	67	42	65
75	2 ½	720 600 252	1.446	100	92	77	49	85
90	3	720 600 253	2.063	121	110	86	54	95
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27 69 04





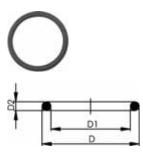
Union Nut, PP-GF

Model:

• Material: PP glass-fibre reinforced

Socket Fusion d	Butt Fusion d [mm]	PN	G [inch]	Code	kg	D [mm]	L [mm]
16	16	10	3/4	727 890 405	0.007	35	21
20	20	10	1	727 890 406	0.023	48	24
25	25	10	1 1/4	727 890 407	0.035	58	26
32	32	10	1 1/2	727 890 408	0.044	65	28
40	40	10	2	727 890 409	0.044	77	27
50	50	10	2 1/4	727 890 410	0.062	84	30
63	63	10	2 3/4	727 890 411	0.119	111	39
75	75 - 90	10	S107,5x3,6	727 890 422	0.205	135	40
90	110	10	S127,5x3,6	727 890 423	0.730	158	43
110	-	10	S152,5x3,6	727 890 424	0.499	188	48

EPDM 48 41 00 FPM 49 41 00

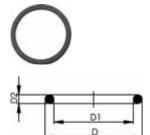


O-Ring gasket

Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C
- * for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

d [mm]	DN [mm]	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	D2 [mm]
16	10	748 410 005	749 410 005	0.001	21	16	2.62
20	15	748 410 006	749 410 006	0.001	27	20	3.53
25	20	748 410 007	749 410 007	0.002	35	28	3.53
32	25	748 410 008	749 410 008	0.002	40	33	3.53
40	32	748 410 009	749 410 009	0.007	51	41	5.34
50	40	748 410 010	749 410 010	0.060	58	47	5.34
63	50	748 410 011	749 410 011	0.003	70	60	5.34
75	65	748 410 014	749 410 014	0.012	93	82	5.34
90	80	748 410 015	749 410 015	0.015	112	101	5.34
110	100	748 410 016	749 410 016	0.031	134	120	6.99



O-Ring Gaskets

- For unions and adaptor unions
- Hardness approx. 75° Shore
- FFPM minimum temperature -20°C

d	DN	FFPM	kg	D	D1	D2
[mm]	[mm]	Code		[mm]	[mm]	[mm]
20	15	700 245 481	0.002	27	20	4
25	20	700 245 482	0.002	35	28	4
32	25	700 245 483	0.002	40	33	4
40	32	700 245 484	0.006	51	41	5
50	40	700 245 485	0.007	58	47	5
63	50	700 245 486	0.010	70	60	5

Flange Adaptors, Flanges and Gaskets for Socket Fusion

27 79 02





PROGEF Standard flange adaptor Jointing face flat/serrated

Model:

- Material: PP-H
- · Counterpart: Flange Adaptor flat/serrated or with O-ring groove
- Connection: according to EN ISO 15494-1
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Flanges: PP with steel core, No. 27 70 02, PP-V, No. 27 70 04

d	DN	PN	Code	kg	D	D1	L	L1	z
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]
20	15	10	727 790 206	0.011	27	45	19	7	5
25	20	10	727 790 207	0.022	33	58	21	9	5
32	25	10	727 790 208	0.033	41	68	23	10	5
40	32	10	727 790 209	0.046	50	78	25	11	5
50	40	10	727 790 210	0.060	61	88	28	12	5
63	50	10	727 790 211	0.090	76	102	32	14	5
75	65	10	727 790 212	0.155	90	122	36	16	5
90	80	10	727 790 213	0.204	108	138	42	17	7
110	100	10	727 790 214	0.286	131	158	48	18	7

27 79 02





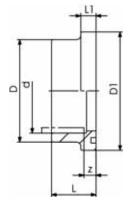
PROGEF Standard flange adaptor Jointing face serrated ANSI

- Material: PP-H
- · Counterpart: Flange adaptor serrated
- Gasket: Profile flange gasket EPDM No. 48 44 05, FPM No. 49 44 05
- Flanges: PP with steel core, No. 27 70 02, PP-V, No 27 70 04

d	PN	Code	kg	D	D1	L	L1	z
[mm]				[mm]	[mm]	[mm]	[mm]	[mm]
25	10	727 790 257	0.018	33	54	21	7	5
32	10	727 790 258	0.026	41	63	23	7	5
40	10	727 790 259	0.041	50	73	25	8	5
50	10	727 790 260	0.055	61	82	28	8	5
90	10	727 790 263	0.189	108	133	36	16	5

27 81 01





PROGEF Standard flange adaptor Jointing face with o-ring groove

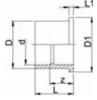
Model:

- Material: PP-H
- Counterpart: Flange adaptor flat/serrated, No. 27 79 02
- Gasket: O-ring EPDM No. 48 41 01, FPM No. 49 41 01
- Flanges: PP with steel core, No. 27 70 02 (mm) or No. 27 70 12 (ANSI), PP-V, No. 27 70 04

d	DN	PN	Code	kg	D	D1	L	L1	z
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]
20	15	10	727 810 106	0.007	27	34	22	9	8
25	20	10	727 810 107	0.012	33	41	24	10	8
32	25	10	727 810 108	0.018	41	50	26	10	8
40	32	10	727 810 109	0.027	50	61	30	13	10
50	40	10	727 810 110	0.043	61	73	33	13	10
63	50	10	727 810 111	0.070	76	90	37	14	10
75	65	10	727 810 112	0.105	90	106	40	15	10
90	80	10	727 810 113	0.170	108	125	47	16	12
110	100	10	727 810 114	0.263	131	150	55	18	13

27 80 00





PROGEF Standard outlet flange adaptor Jointing face flat

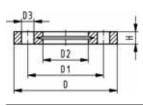
- · Material: PP-H
- With fusion socket metric
- Suitable for wafer check valves Type 369
- To be installed on the outlet side of the valve
- Use flanges PP-V 27 70 04

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	L [mm]	L1 [mm]	Z [mm]	
40	32	6	727 800 009	0.068	50	78	55	11	35	
50	40	6	727 800 010	0.087	61	88	61	12	38	
63	50	6	727 800 011	0.136	76	102	69	14	41	
75	65	6	727 800 012	0.214	90	122	79	16	49	
90	80	6	727 800 013	0.350	107	138	100	17	65	
110	100	6	727 800 014	0.468	130	158	105	18	62	

27 70 04 27 70 05







Backing Flanges, PP-V For socket systems metric

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**
- * Combined version, metric-ANSI

AL: number of holes

1) Suitable for socket- and butt fusion systems (no pictograph on flange)

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
firmin	[iiiiii]				firming	Limin	firming	Limin	Limin		
1) 20	15	16	727 700 406	0.093	95	65.0	28	14	16	4	M12
1) 25	20	16	727 700 407	0.120	105	75.0	34	14	17	4	M12
1) 32	25	16	727 700 408	0.151	115	85.0	42	14	18	4	M12
1) 40	32	16	727 700 409	0.244	140	100.0	51	18	20	4	M16
1) 50	40	16	727 700 410	0.297	150	110.0	62	18	22	4	M16
1) 63	50	16	727 700 411	0.362	165	125.0	78	18	24	4	M16
1) 75	65	16	727 700 412	0.487	185	145.0	92	18	26	4	M16
90	80	16	727 700 413	0.550	200	160.0	110	18	27	8	M16
110	100	16	727 700 414	0.640	220	180.0	133	18	28	8	M16

27 70 14

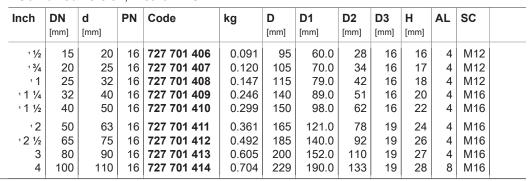




- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150
- 727701414, 727700417, 727700419: only for use with original metric flange adaptors
- 1) Suitable for socket- and butt fusion systems (no pictograph on flange)

AL: number of holes

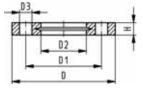
Combined version, metric-ANSI



27 70 15



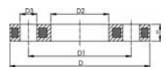




27 70 02







Backing Flanges, PP/Steel For socket systems metric

Model:

- PP-GF (30% glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10
- ¹ Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor
- ² Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250

AL: number of holes

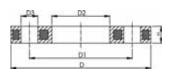
d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20	15	16	727 700 206	0.216	95	65	28	14	12	4	M12
25	20	16	727 700 207	0.279	105	75	34	14	12	4	M12
32	25	16	727 700 208	0.429	115	85	42	14	16	4	M12
40	32	16	727 700 209	0.621	140	100	51	18	16	4	M16
50	40	16	727 700 210	0.722	150	110	62	18	20	4	M16
63	50	16	727 700 211	1.084	165	125	78	18	20	4	M16
75	65	16	727 700 212	1.349	185	145	92	18	20	4	M16
90	80	16	727 700 213	1.369	200	160	110	18	20	8	M16
110	100	16	727 700 214	1.522	220	180	133	18	20	8	M16

27 70 12









Backing Flanges, PP/Steel For socket systems Inch/ANSI

Model:

- For Flange Adaptors BS/ANSI
- Material: PP (30 % glass-fibre reinforced) with steel ring
- · UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150
- 727701214, 727700217: only for use with original metric flange adaptors

AL: number of holes

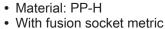
d [inch]	DN [mm]	d [mm]	PN	Code	kg	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	sc
1/2	15	20	16	727 701 206	0.213	60	28	16	95	12	4	M12
3/4	20	25	16	727 701 207	0.260	70	34	16	105	12	4	M12
1	25	32	16	727 701 208	0.416	79	42	16	115	16	4	M12
1 1/4	32	40	16	727 701 209	0.730	89	51	16	140	16	4	M16
1 ½	40	50	16	727 701 210	0.809	98	62	16	150	18	4	M16
2	50	63	16	727 701 211	0.866	121	78	19	165	18	4	M16
2 1/2	65	75	16	727 701 212	1.117	140	92	19	185	18	4	M16
3	80	90	16	727 701 213	1.492	152	110	19	200	20	4	M16
4	100	110	16	727 701 214	1.695	190	133	19	229	20	8	M16

27 30 10 27 40 10

Fixed Flanges, PP-H metric Jointing face flat

Model:





 Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10



	Ī	D1	1	_ D4
Ξ ^N ,	ald			I
•		D2 D3	-	•

d [mm]	DN [mm]	Inch	PN	Code	kg	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	AL	z [mm]
20	15	1/2	10	727 730 106	0.069	27	65	94	14	12	19	4	5
25	20	3/4	10	727 730 107	0.094	33	75	103	14	13	21	4	5
32	25	1	10	727 730 108	0.129	40	85	115	14	14	23	4	5
40	32	11/4	10	727 730 109	0.203	50	100	138	18	15	25	4	5
50	40	11/2	10	727 730 110	0.246	61	110	148	18	16	27	4	5
63	50	2	10	727 730 111	0.330	76	125	163	18	18	31	4	5

27 30 10 27 40 10

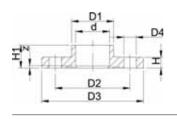
Fixed Flanges, PP-H metric Combined jointing face: flat and serrated

Model:

....

- Material: PP-H
- · With fusion socket metric
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

AL: number of holes



d [mm]	DN [mm]	Inch	PN	Code	kg	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	AL	Z [mm]
20	15	1/2	10	727 740 106	0.065	27	65	94	14		19	4	5
25	20		10		0.003	33	75	103	14	13		4	5
32	25	1	10	727 740 108	0.115	40	85	115	14	14	23	4	5
40	32	11/4	10	727 740 109	0.175	50	100	138	18	15	25	4	5
50	40	11/2	10	727 740 110	0.210	61	110	148	18	16	27	4	5
63	50	2	10	727 740 111	0.286	76	125	163	18	18	31	4	5
													1

EPDM 48 41 01 FPM 49 41 01

O-Ring gasket

- For Flange Adaptors
- · Hardness approx. 65° Shore

)		
•			
2		-	
1		DI	
	1.16	n	125.5

d [mm]	DN [mm]	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	D2 [mm]
20	15	748 410 001	749 410 001	0.002	31	23	3.53
25	20	748 410 007	749 410 007	0.002	35	28	3.53
32	25	748 410 002	749 410 002	0.003	43	36	3.53
40	32	748 410 003	749 410 003	0.001	55	44	5.34
50	40	748 410 012	749 410 012	0.008	64	53	5.34
63	50	748 410 013	749 410 013	0.011	80	69	5.34
75	65	748 410 014	749 410 014	0.012	93	82	5.34
90	80	748 410 015	749 410 015	0.015	112	101	5.34
110	100	748 410 016	749 410 016	0.031	134	120	6.99

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PROGEF Standard Hand-Operated and Actuated Valves

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Hand-Operated Valves

General Information

Material

The material PP-H conforms with the corresponding recommendations of the German Federal board of Health.

Standards

All the main dimensions, such as nominal bore, z dimensions, socket depth and diameter, are in accordance with ISO Recommendations, ISO Draft Resolutions for millimetre pipes and DIN 3442.

Fusion joints
EN 558-1 DIN 3442

Thread joint	Flange joint	
ISO 7/1 DIN 2999 BSI 21	DIN 2501/8063	on request ANSI B 16.5 JIS

Jointing

Fusion jointing:

Pipes with outside diameter tolerances in accordance with DIN 8077 can be readily jointed with GF Piping Systems Valves.

Threaded joint:

BSP parallel female threads are in accordance with ISO 7/1 or DIN 2999. Threaded plastic Valves should be jointed to plastics pipe or to other plastics parts. Jointing to metal pipe or fittings is permissible only where there is little stress, and should be carried out with great care.

Nominal Pressure

see column PN

Marking

GF Piping Systems valves are marked as follows:

- +GF+
- pipe o.d.
- · pipe nominal bore
- material
- · pressure rating: PN ...

Overall length

When used with flange adaptors or union ends from GF Piping Systems, the lengths of volves correspond to EN 558-1 (org. DIN 3202) or VSM standard 19431 and NF.E 29492.

Dimensions

All dimensions are given in mm.

Information Service

For detailed information see our Catalogue "Plastic Piping Systems".

Quality control conforming to DIN 3442, Part 1

The function and tightness of every valve are factory-tested. Testing is carried out with air under water.

Orders

Always quote the GF Piping Systems code number when placing orders.

Ordering example

8 ball valves 167 346 005

Ball Valves 546

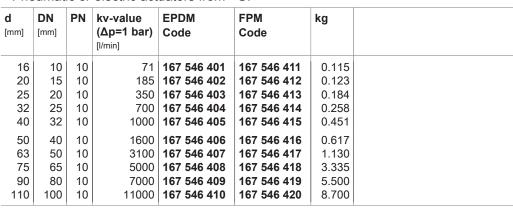
Ball valve type 546 PP-H With mounting inserts With fusion sockets metric

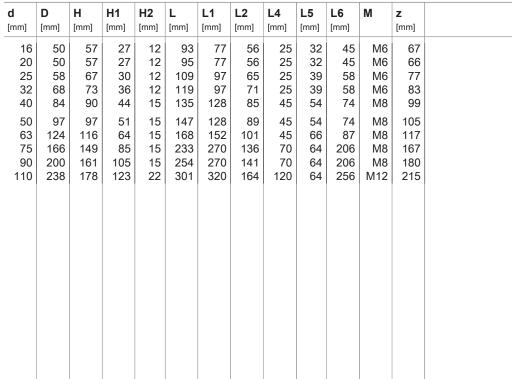
Model:

- · Material: PP-H
- · For easy installation and removal
- · Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346 (DN10/15-50) resp. type 370 (DN65-100)

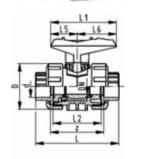


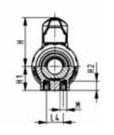
- · Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

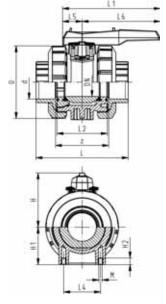






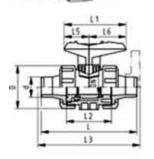


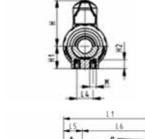


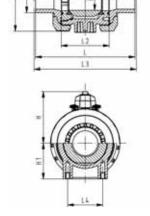




DN10/15 - 50







Ball valve type 546 PP-H With mounting inserts With socket fusion spigots metric

Model:

- · Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- · Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

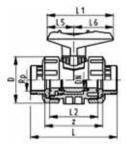
- Individual configuration of the valve (see diagram)Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

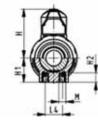
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	71	167 546 041	167 546 051	0.120	
20	15	10	185	167 546 042	167 546 052	0.120	
25	20	10	350	167 546 043	167 546 053	0.180	
32	25	10	700	167 546 044	167 546 054	0.260	
40	32	10	1000	167 546 045	167 546 055	0.450	
50	40	10	1600	167 546 046	167 546 056	0.640	
63	50	10	3100	167 546 047	167 546 057	1.210	
75	65	10	5000	167 546 048	167 546 058	3.800	
90	80	10	7000	167 546 049	167 546 059	5.600	
110	100	10	11000	167 546 050	167 546 060	8.800	

110	100	100 10 11000		1000	167 54	16 050	167	167 546 060 8.800					
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]		L5 [mm]	L6 [mm]	M
16 20	50 50	57 57	27 27	12 12	110 120	77 77	56 56	130		25	32 32	45 45	M6 M6
25 32 40		67 73 90	30 36 44	12 12 15	139 150 170	97 97 128	65 71 85	150 160 180	2	.5 .5	39 39 54	58 58 74	M6 M6 M8
50 63 75 90	97 124 166 200	97 116 149 161	51 64	15 15 15 15	190 220 280	128 152 270 270	89 101 136 141	200 230 290 310	4 4 7	5.5	54 66 64 64	74 87 206 206	M8 M8 M8 M8
110	238	178	123	22		320	164	350	12	- 1	64	256	M12



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Ball valve type 546 PP-H With mounting inserts With threaded sockets reinforced Rp

Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

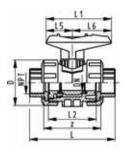
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

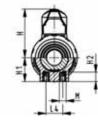
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3/8	10	10	71	167 546 021	167 546 031	0.120	
1/2	15	10	185	167 546 022	167 546 032	0.120	
3/4	20	10	350	167 546 023	167 546 033	0.180	
1	25	10	700	167 546 024	167 546 034	0.270	
1 1/4	32	10	1000	167 546 025	167 546 035	0.460	
1 1/2	40	10	1600	167 546 026	167 546 036	0.635	
2	50	10	3100	167 546 027	167 546 037	1.190	

Rp	D	Н	H1	H2	L	L1	L2	L4	L5	L6	М	z
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
3/8	50	57	27	12	96	77	56	25	32	45	M6	69
1/2	50	57	27	12	99	77	56	25	32	45	M6	67
3/4	58	67	30	12	111	97	65	25	39	58	M6	78
1	68	73	36	12	127	97	71	25	39	58	M6	85
1 1/4	84	90	44	15	146	128	85	45	54	74	M8	100
1 1/2	97	97	51	15	157	128	89	45	54	74	M8	106
2	124	116	64	15	183	152	101	45	66	87	M8	121



DN10/15 - 50





Ball valve type 546 PP-H With mounting inserts With threaded sockets reinforced NPT

Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- · Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

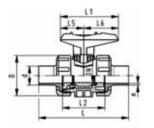
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

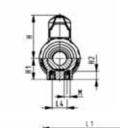
NPT [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3/8	10	10	71	167 546 321	167 546 331	0.120	
1/2	15	10	185	167 546 322	167 546 332	0.120	
3/4	20	10	350	167 546 323	167 546 333	0.180	
1	25	10	700	167 546 324	167 546 334	0.270	
1 1/4	32	10	1000	167 546 325	167 546 335	0.460	
1 ½	40	10	1600	167 546 326	167 546 336	0.635	
2	50	10	3100	167 546 327	167 546 337	1.190	

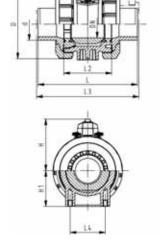
NPT D H H1 H2 L L1 L2 L4 L5 L6 M z [inch] [mm] [mm] [mm] [mm] [mm] [mm] [mm] [mm] % 50 57 27 12 96 77 56 25 32 45 M6 7
3/2 50 57 27 12 96 77 56 25 32 45 M6 7
78 30 31 21 12 30 11 30 23 32 43 WO 1
1/2 50 57 27 12 99 77 56 25 32 45 M6 6
34 58 67 30 12 111 97 65 25 39 58 M6 7
1 68 73 36 12 127 97 71 25 39 58 M6 8
1 1/4 84 90 44 15 146 128 85 45 54 74 M8 10
1 ½ 97 97 51 15 157 128 89 45 54 74 M8 11
2 124 116 64 15 183 152 101 45 66 87 M8 13



DN10/15 - 50







Ball valve type 546 PP-H With mounting inserts With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346 (DN10/15-50) resp. type 370 (DN65-100)

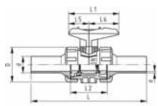
Option:

- Individual configuration of the valve (see diagram)Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	185	167 546 442	167 546 452	0.123	
25	20	10	350	167 546 443	167 546 453	0.185	
32	25	10	700	167 546 444	167 546 454	0.263	
40	32	10	1000	167 546 445	167 546 455	0.456	
50	40	10	1600	167 546 446	167 546 456	0.642	
63	50	10	3100	167 546 447	167 546 457	1.180	
75	65	10	5000	167 546 448	167 546 458	2.602	
90	80	10	7000	167 546 449	167 546 459	5.500	
110	100	10	11000	167 546 450	167 546 460	8.700	

		. •								000		
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	М	e [mm]
20 25 32 40	50 58 68 84 97	57 67 73 90 97	27 30 36 44 51	12 12 12 15 15	130 143 150 171 191	77 97 97 128	56 65 71 85 89	25 25 25 45 45	32 39 39 54 54	45 58 58 74 74	_	1.9 2.3 2.9 3.7
50 63 75 90 110	124 166 200 238	116 149 161 178	64 85 105 123	15 15 15 15 22	220 266 264 301	128 152 270 270 320	101 136 141 164	45 70 70 120	66 64 64 64	87 206 206 256	M8 M8 M8 M8	4.6 5.8 6.8 8.2 10.0







Ball valve type 546 PP-H With mounting inserts With butt fusion spigots long SDR11 metric

Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- · Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

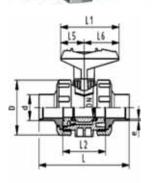
Option:

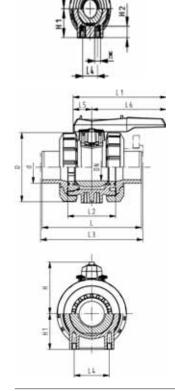
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]		kv-val (∆p=1 [l/min]		EPDM Code		FPM		ŀ	(g			
20	15	10		185	167 54	16 262	167	546 2	72	0.130			
25	20	10		350	167 54	16 263	167	546 2	73	0.195			
32	25	10		700	167 54	16 264	167	546 2	74	0.280			
40	32	10		1000	167 54	16 265	167	546 2	75	0.480			
50	40	10		1600	167 54	l6 266	167	546 2	76	0.700			
63	50	10		3100	167 54	16 267	167	546 2	77	1.288			
d	D	H	H1	H2	L	L1	L2	L4	L5	L6	М	e	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	1
20	50	57	27	12	193	77	56	25	32	45	M6	2,3	İ
25	58	67	30	12	216	97	65	25	39	58	M6	2,3	
32	68	73	36	12	223	97	71	25	39	58	M6	2,9	
40	84	90		15		128	85	45	54	74	M8	3,7	
50	97	97	1	15	271	128	89	45	54	74	M8	4,6	
63	124	116	64	15	321	152	101	45	66	87	M8	5,8	



DN10/15 - 50





Ball valve type 546 PP-H With mounting inserts With butt fusion spigots SDR17.6 metric

Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

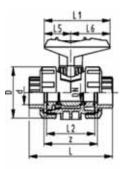
- Individual configuration of the valve (see diagram)Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

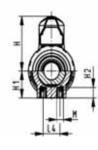
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
50	40	6	1600	167 546 066	167 546 076	0.635	
63	50	6	3100	167 546 067	167 546 077	1.200	
75	65	6	5000	167 546 068	167 546 078	3.387	
90	80	6	7000	167 546 069	167 546 079	5.500	
110	100	6	11000	167 546 070	167 546 080	8.600	

58



DN10/15 - 50





Ball valve type 546 PP-H With mounting inserts With fusion sockets PE100 metric

Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- · Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

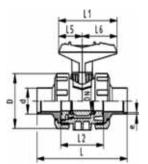
Option:

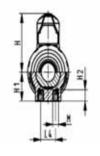
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN	kv-value (Δp=1 ba	EPI Cod		FPI Co			kg						
16	10	10	7	1 167	546 161	167	546 1	71	0	.120					
20	15	10	18	5 167	546 162	167	546 1	72	0	.120					
25	20	10	35	0 167	546 163	167	546 1	73	0	.180					
32	25	10	70	0 167	546 164	167	546 1	74	0	.260					
40	32	10	100	0 167	546 165	167	546 1	75	0	.450					
50	40	10	160	0 167	546 166	167	546 1	76	0	.630					
63	50	10	310	0 167	546 167	167	546 1	77	1	.195					
Ч	D	н	H1 H) I	1.1	12	1.4	15		6	М	7			

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	М	Z [mm]
16	50	57	27	12	93	77	56	25	32	45	M6	67
20	50	57	27	12	95	77	56	25	32	45	M6	67
25	58	67	30	12	109	97	65	25	39	58	M6	77
32	68	73	36	12	119	97	71	25	39	58	M6	83
40	84	90	44	15	135	128	85	45	54	74	M8	99
50	97	97	51	15	147	128	89	45	54	74	M8	105
63	124	116	64	15	168	152	101	45	66	87	M8	113







Ball valve type 546 PP-H With mounting inserts With butt fusion spigots PE100 SDR11 metric

Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

50

63

97

124

97

116

51

64

15

15

191

220

128

152

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches

• Pn	euma	tic o	r electi	ric ac	tuator	s fron	า +GF	+						
d [mm]	DN [mm]	PN	kv-val (Δp=1 [l/min]		EPDM Code	l	FPN Cod		ı	кg				
20	15	10		185	167 54	16 142	167	546 15	52	0.120				
25	20	10		350	167 54	16 143	167	546 15	53	0.180				
32	25	10		700	167 54	16 144	167	546 15	54	0.255				
40	32	10		1000	167 54	16 145	167	546 15	55	0.440				
50	40	10		1600	167 54	16 146	167	546 15	56	0.620				
63	50	10		3100	167 54	16 147	167	546 15	57	1.200				
d	D	Н	H1	H2	L	L1	L2	L3	L4	L5	L6	М	е	_
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	
20	50	5		12	130	77	56	130	25		45	M6	1,9	
25	58	6	7 30	12	143	97	65	150	25	39	58	M6	2,3	
32	68	7:	3 36	12	150	97	71	160	25	39	58	M6	2,9	
40	84	9) 44	15	171	128	85	180	45	54	74	M8	3.7	

89

101

200

230

54

66

74 M8

87 M8

45

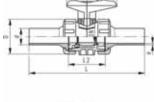
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4,6

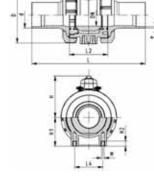
5,8











Ball valve type 546 PP-H With mounting inserts With butt fusion spigots long PE100 SDR11 metric

Model:

- · Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- · Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

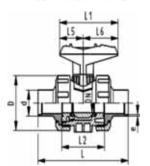
Option:

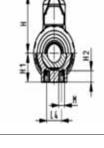
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	185	167 546 282	167 546 292	0.130	
25	20	10	350	167 546 283	167 546 293	0.195	
32	25	10	700	167 546 284	167 546 294	0.280	
40	32	10	1000	167 546 285	167 546 295	0.485	
50	40	10	1600	167 546 286	167 546 296	0.695	
63	50	10	3100	167 546 287	167 546 297	1.309	
75	65	10	5000	167 546 288	167 546 298	3.900	
90	80	10	7000	167 546 289	167 546 299	5.900	
110	100	10	11000	167 546 290	167 546 300	9.300	

d	D	Н	H1	H2	L	L1	L2	L4	L5	L6	М	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
20	50	57	27	12	193	77	56	25	32	45	M6	2,3
25	58	67	30	12	216	97	65	25	39	58	M6	2,3
32	68	73	36	12	223	97	71	25	39	58	M6	2,9
40	84	90	44	15	249	128	85	45	54	74	M8	3,7
50	97	97	51	15	271	128	89	45	54	74	M8	4,6
63	124	116	64	15	321	152	101	45	66	87	M8	5,8
75	166	149	85	15	386	270	136	70	64	206	M8	6.8
90	200	161	105	15	421	270	141	70	64	206	M8	8.2
110	238	178	123	22	484	320	164	120	64	256	M12	10,0







Ball valve type 546 PP-H With mounting inserts With butt fusion spigots PE100 SDR17.6 metric

Model:

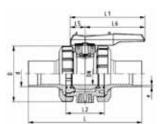
- · Material: PP-H
- · For easy installation and removal
- Ball seals PTFE
- · Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

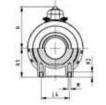
Option:

- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]		kv-valı (∆p=1 ^[l/min]		EPDM Code		FPN Cod			kg			
50 63	40 50	6 6		1600 3100	167 54 167 54			546 1 546 1		0.620 1.200			
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	М	e [mm]	
50 63	97 124	97 116		15 15	191 220	128 152	89 101	45 45	54 66	1	M8 M8	2,9 3,6	







PROGEF Standard Ball valve type 546 With mounting inserts With butt fusion spigots long PE100 SDR17,6 metric

Model:

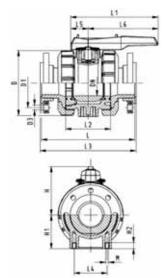
- Material: PP-H
- · For easy installation and removal
- · Ball seals PTFE
- · Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

			0.00				•						
d [mm]	DN [mm]	PN	kv-valu (∆p=1 [l/min]		EPDM Code	I	FPN Cod	-		kç	g		
75	65	10	,	5000	167 54	46 308	167	546 31	18	3	3.900		
90	80	10		7000	167 54	46 309	167	546 31	19	2	2.026		
110	100	10	1	1000	167 54	46 310	167	546 32	20	Ç	9.200		
d	D	Н	H1	H2	L	L1	L2	L4	L5		L6	М	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm	1]	[mm]		[mm]
75	166	149		15		270	136	70		4	206	8	4.3
90	200	161		15		270	141	70		4	206	8	5.1
110	238	178	123	22	484	320	164	120	6	4	256	12	6.3





PROGEF Standard Ball valve type 546 With mounting inserts With backing flanges PP-st metric

Model:

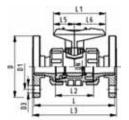
- Material: PP-H
- · For easy installation and removal
- · Ball seals PTFE
- · Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

			0.00				•							
d [mm]	DN [mm]	PN	kv-val (Δp=1 [l/min]		EPDM Code		FPN Cod	-	ı	cg				
75	65	10		5000	167 54	16 808	167	546 81	18	5.417				
90	80	10		7000	167 54	16 809	167	546 81	19	7.941				
110	100	10	1	1000	167 54	16 810	167	546 82	20	9.928				
d	D	D1	D3	L	L1	L2	L3	L4	L5	L6	Н	H1	М	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		ı
75	166	145	18	280	270	136	290	70	64	206	149	85	8	
90	200	160	18	296	270	141	310	70	64	206	161	105	8	ı
110	238	180	18	336	320	164	350	120	64	256	178	123	12	İ







PROGEF Standard Ball valve type 546 With mounting inserts With fixed flanges PP-H serrated metric

Model:

- · Material: PP-H
- · For easy installation and removal
- Ball seals PTFE
- · Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
 Pneumatic or electric actuators from +GE+

• Pn	euma	tic or	electi	ric act	uator	s fror	n +GF	+							
d [mm]	DN [mm]	Inch		kv-val (∆p=1 ^[l/min]		EPDN Code		FPI Co			kg				
20	15	1/2	10		185	167 5	46 182	167	7 546 1	92	0.245				
25	20	3/4	10		350	167 5	46 183	167	7 546 1	93	0.345				
32	25	1	10		700	167 5	46 184	167	7 546 1	94	0.495				
40	32	1 1/4	10		1000	167 5	46 185	167	7 546 1	95	0.824				
50	40	1 ½	10		1600	167 5	46 186	167	7 546 1	96	1.066				
63	50	2	10		3100	167 5	46 187	167	7 546 1	97	1.751				
d	D	D1	D3	Н	H1	H2	L	L1	L2	L3	L4	L5	L6	М	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
20	95	65	14	57	27	12	120	77	56	130	25	32	45	M6	
25	105	75	14	67	30	12	140	97	65	150	25	39	58	M6	
32	115	85	14	73	36	12	150	97	71	160	25	39	58	M6	
40	140	100	18	90	44	15	170	128	85	180	45	54	74	M8	
50	150	110	18	97	51	15	190	128	89	200	45	54	74	M8	
63	165	125	18	116	64	15	220	152	101	230	45	66	87	M8	



DN10/15 - 50

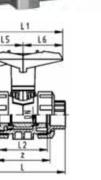
Ball valve type 546 PP-H With lockable handle With fusion sockets metric

Model:

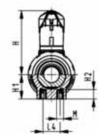
- · Material: PP-H
- · For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

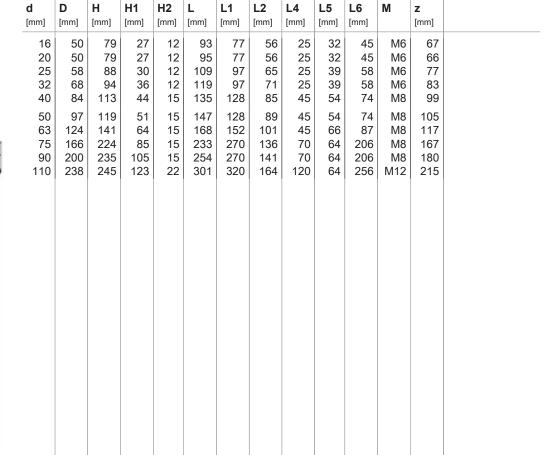
Option:

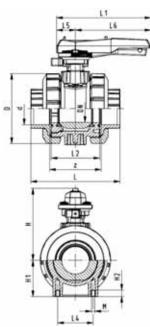
- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	71	167 546 421	167 546 431	0.125
20	15	10	185	167 546 422	167 546 432	0.125
25	20	10	350	167 546 423	167 546 433	0.195
32	25	10	700	167 546 424	167 546 434	0.270
40	32	10	1000	167 546 425	167 546 435	0.465
50	40	10	1600	167 546 426	167 546 436	0.635
63	50	10	3100	167 546 427	167 546 437	1.175
75	65	10	5000	167 546 428	167 546 438	4.000
90	80	10	7000	167 546 429	167 546 439	4.715
110	100	10	11000	167 546 430	167 546 440	7.252

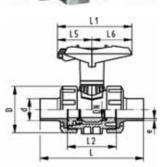


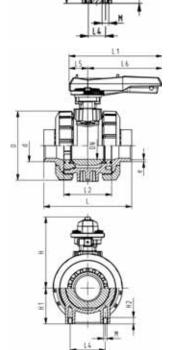






DN10/15 - 50





Ball valve type 546 PP-H With lockable handle With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	185	167 546 462	167 546 472	0.130
25	20	10	350	167 546 463	167 546 473	0.195
32	25	10	700	167 546 464	167 546 474	0.270
40	32	10	1000	167 546 465	167 546 475	0.465
50	40	10	1600	167 546 466	167 546 476	0.645
63	50	10	3100	167 546 467	167 546 477	1.213
75	65	10	5000	167 546 468	167 546 478	4.100
90	80	10	7000	167 546 469	167 546 479	5.900
110	100	10	11000	167 546 470	167 546 480	9.000

				.000				0.0.0		0.000			
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	М	e [mm]	
20 25 32 40 50	50 58 68 84 97	79 88 94 113 119	27 30 36 44 51	12 12 12 15 15	130 143 150 171 191	87 108 108 140 140	56 65 71 85 89	25 25 25 45 45	42 50 50 66 66	45 58 58 75 75	M6 M6 M6 M8 M8	1,9 2,3 2,9 3,7 4,6	
63 75 90 110	124 166 200 238	141 149 161 178	64 85 105	15 15 15	220 266 264 301	165 270 270 320	101 136 141 164	45 70 70 120	78 64 64 64	87 206 206 256	M8 M8 M8 M12	5,8 6,8 8,2 10,0	

DN10/15 - 50

- · Material: PP-H
- · For easy installation and removal

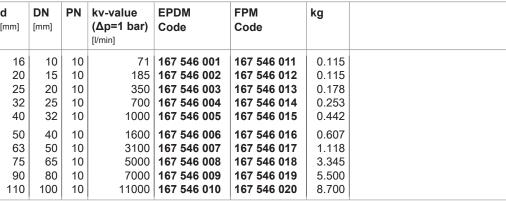
Ball valve type 546 PP-H With fusion sockets metric

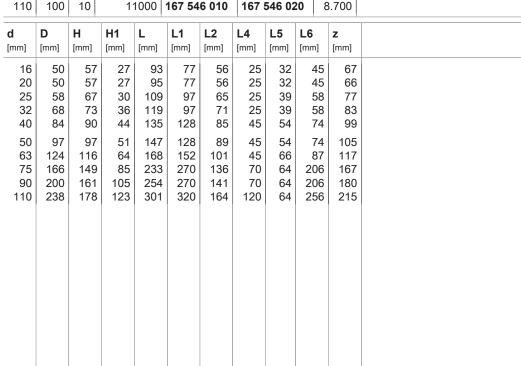
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- · Ball seals PTFE
- · Without mounting inserts

Option:

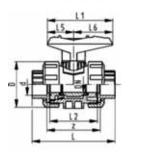
- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

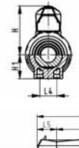
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	71	167 546 001	167 546 011	0.115
20	15	10	185	167 546 002	167 546 012	0.115
25	20	10	350	167 546 003	167 546 013	0.178
32	25	10	700	167 546 004	167 546 014	0.253
40	32	10	1000	167 546 005	167 546 015	0.442
50	40	10	1600	167 546 006	167 546 016	0.607
63	50	10	3100	167 546 007	167 546 017	1.118
75	65	10	5000	167 546 008	167 546 018	3.345
90	80	10	7000	167 546 009	167 546 019	5.500
110	100	10	11000	167 546 010	167 546 020	8.700

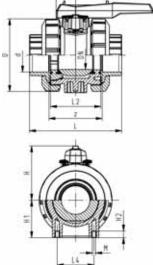












Accessories for Ball Valve 546

Multifunctional module (I02) PP-GF Module empty

Model:

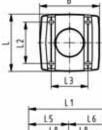
- Accessory to Ball Valve Type 546
- · Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- The multifunctional module from d75 d110 has a master gauge F07 according to EN ISO 5211

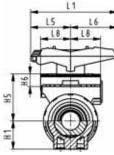
130 32	١١.											
d-d [mm]	Inch [inch]		DN-DN [mm]	N Co	ode		kg					
16 - 20	;	3/8 - 1/2	10 - 1	15 16	7 482	680	0.06	9				
25 - 32		3/4 - 1	20 - 2	25 16	7 482	681	0.14	9				
40 - 50	1 1/4	- 1 ½	32 - 4	40 16	7 482	682	0.16	8				
- 63		2	- 5	50 16	7 482	683	0.20	9				
75 - 90	2	1/2 - 3	65 - 8	30 16	7 482	684	0.37	9				
- 110		4	- 10	00 16	7 482	685	0.60	7				
		l	1						_			
d-d	В	H1	H5	H6	L	L1	L2	L3	L5	L6	L8	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
16 - 20	67	27	50	17	72	87	54	40	42	45	34	

d-d	В	H1	H5	Н6	L	L1	L2	L3	L5	L6	L8
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16 - 20	67	27	50	17	72	87	54	40	42	45	34
25 - 32	75	30	53	16	72	108	52	46	50	58	38
40 - 50	81	44	72	16	80	140	60	50	66	75	41
- 63	91	64	94	19	93	165	68	65	78	87	46
75 - 90	90	85	157	23	85	270			64	206	
- 110	106	123	175	23	97	320			64	256	





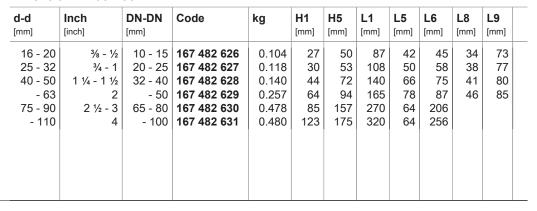




Multifunctional module (I03) PP-GF With mechanical limit switches Ag Ni

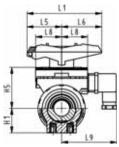
Model:

- Accessory to Ball Valve Type 546
- · Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100



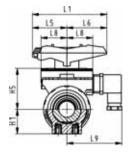












Multifunctional module (I04) PP-GF With mechanical limit switches Au

Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100

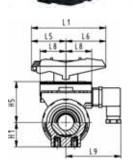
d-d	Inch	DN-DN	Code	kg	H1	H5	L1	L5	L6	L8	L9
[mm]	[inch]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16 - 20	3/8 - 1/2	10 - 15	167 482 635	0.103	27	50	87	42	45	34	73
25 - 32	³⁄4 - 1	20 - 25	167 482 636	0.120	30	53	108	50	58	38	77
40 - 50	1 1/4 - 1 1/2	32 - 40	167 482 637	0.138	44	72	140	66	75	41	80
- 63	2	- 50	167 482 638	0.175	64	94	165	78	87	46	85
75 - 90	2 ½ - 3	65 - 80	167 482 639	0.460	85	157	270	64	206		
- 110	4	- 100	167 482 640	0.480	123	175	320	64	256		



Multifunctional module (I05) PP-GF With inductive limit switches Namur

Model:

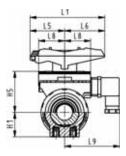
-
- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100



d-d [mm]	Inch [inch]	DN-DN [mm]	Code	kg	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]
16 - 20 25 - 32 40 - 50 - 63 75 - 90 - 110	3/6 - 1/2 3/4 - 1 1 1/4 - 1 1/2 2 2 1/2 - 3 4	10 - 15 20 - 25 32 - 40 - 50 65 - 80 - 100	167 482 672 167 482 673 167 482 674 167 482 675	0.097 0.107 0.135 0.257 0.460 0.480	27 30 44 64 85 123	50 53 72 94 157 175	87 108 140 165 270 320	42 50 66 78 64 64	45 58 75 87 206 256	34 38 41 46	73 77 80 85







Multifunctional module (I06) PP-GF With inductive limit switches PNP

Model:

- Accessory to Ball Valve Type 546
- · Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100

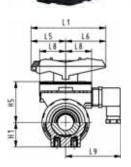
d-d [mm]	Inch [inch]	DN-DN [mm]	Code	kg	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]
16 - 20	3/8 - 1/2	10 - 15	167 482 662	0.182	27	50	87	42	45	34	73
25 - 32	3/4 - 1	20 - 25	167 482 663	0.197	30	53	108	50	58	38	77
40 - 50	1 1/4 - 1 1/2	32 - 40	167 482 664	0.215	44	72	140	66	75	41	80
- 63	2	- 50	167 482 665	0.175	64	94	165	78	87	46	85
75 - 90	2 ½ - 3	65 - 80	167 482 666	0.460	85	157	270	64	206		
- 110	4	- 100	167 482 667	0.480	123	175	320	64	256		



Multifunctional module (I07) PP-GF With inductive limit switches NPN

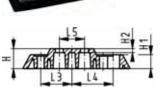
Model:

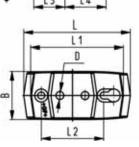
- WOUE
- Accessory to Ball Valve Type 546
- · Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100



d-d [mm]	Inch [inch]	DN-DN [mm]	Code	kg	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	
16 - 20 25 - 32 40 - 50 - 63 75 - 90 - 110	3/8 - 1/2 3/4 - 1 1 1/4 - 1 1/2 2 2 1/2 - 3 4		167 482 654 167 482 655 167 482 656 167 482 657	0.110 0.120 0.135 0.175 0.460 0.480	27 30 44 64 85 123	50 53 72 94 157 175	87 108 140 165 270 320	42 50 66 78 64 64	45 58 75 87 206 256	34 38 41 46	73 77 80 85	







Mounting plate 546 PP-GF (L02)

• 2 mounting screws inclusive

d-d	Inch	DN-DN	Code	kg
[mm]	[inch]	[mm]		
16 - 32	3/8 - 1	10 - 25	167 484 110	0.054
			167 484 111	

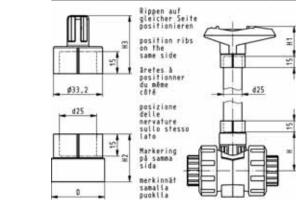
d-d [mm]	B [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]
16 - 32 40 - 63	48 54	8 9	20 20	14 14	4 4	106 149	92 134	62 104	31 52	41 62	25 45



Handle extension 546 PVC-U metric

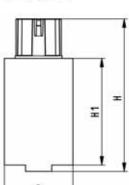
- For ball valve type 546 and 543
- Composed of adapter sockets for handle connection and stem connection
- PVC-U pipe in suitable length has to be obtained on site

d-d [mm]	DN-DN [mm]	Code	kg	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]
16 - 20 25 - 32 40 - 50	20 - 25	161 486 435 161 486 436 161 486 437	0.030 0.029 0.045	41 50 65	52 62 76	29 32 34	36 39 44	26 36 40
- 63		161 486 437	0.043	84	87	37	48	44









Handle extension for ball valve type 546 PVC-U DN65 - DN100

Model:

- Multiple use in succession possible
- Height variable

d-d [mm]	DN-DN [mm]	Code	kg	D [mm]	H [mm]	H1 [mm]
75 - 90		161 490 920	0.323			
- 110	- 100	161 490 921	0.413	64	143	100





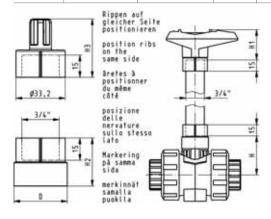


• For Ball Valve Type 546

Includes upper and lower extension adapter, does not include 3/4" pipe

Handle extension 546 PVC-U inch BS/ASTM

DN-DN [mm]	Inch	Code	kg	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]
10 - 15	3/8-1/2	161 486 443	0.032	41	52	29	36	26
20 - 25	3/4-1	161 486 444	0.030	50	62	32	39	36
32 - 40	1 1/4-1 1/2	161 486 445	0.047	65	76	34	44	40
50 -	2	161 486 446	0.058	84	87	37	48	44





Ball Valves 523

PROGEF Standard Metering ball valve type 523 With mounting inserts With fusion sockets metric



- · Material: PP-H
- · Micro-doser
- · Excellent control characteristics
- · Designed for easy installation and removal
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Ball seals PTFE
- Z-length, end connectors and union nuts not compatible to Type 323

· Other materials on demand

d [mm]	DN [mm]	PN	kv-va (Δp=1		EPD Code			PM Code		kg	
16 20	10 15	10 10		11 20	_	523 40 523 40		67 523 67 523			130 130
d [mm]	D [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	z [mm]	
16 20	50 50	68 68	27 27	93 95	77 77	56 56	25 25		45 45	67 66	



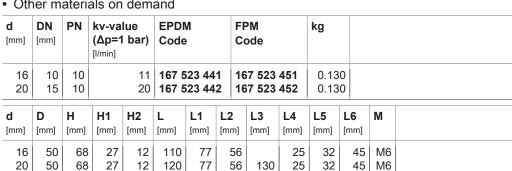
PROGEF Standard Metering ball valve type 523 With mounting inserts With socket fusion spigots metric

Model:

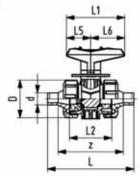
- · Material: PP-H
- Micro-doser
- · Excellent control characteristics
- · Designed for easy installation and removal
- Angle of operation 180° with scale
- · Integrated stainless steel mounting inserts
- Ball seals PTFE
- Z-length, end connectors and union nuts not compatible to Type 323



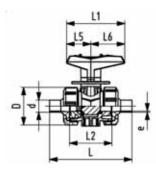
· Other materials on demand











PROGEF Standard Metering ball valve type 523 With mounting inserts With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Ball seals PTFE
- Z-length, end connectors and union nuts not compatible to Type 323

Option:

• Other materials on demand

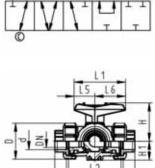
d [mm]	DN [mm]	PN	kv-va (∆p=1 [l/min]		EPD! Code		-	PM ode		kg			
20	15	10		11	167 5	23 48	2 1	67 523	492	0.13	30		
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	e [mm]	
20	50	68	27	12	130	77	56	25	32	45	M6	1.9	

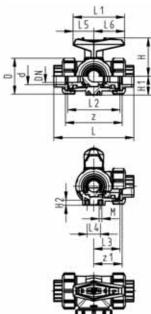
Ball Valves 543





- · Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

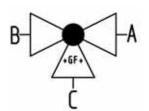




d [mm]	DN [mm]	PN	kv-valu (Δp=1		EPDM Code		FPI			kg					
16	10	10		50	167 54	3 001	167	543 ()11	0.161					
20	15	10		75	167 54	3 002	167	543 ()12	0.165					
25	20	10		150	167 54	3 003	167	543 ()13	0.237					
32	25	10		280	167 54	3 004	167	543 ()14	0.361					
40	32	10		480	167 54	3 005	167	543 ()15	0.616					
50	40	10		620	167 54	3 006	167	543 ()16	0.912					
63	50	10	,	1230	167 54	3 007	167	543 ()17	1.882					
d [mm]	D [mm]	L [mm]	L1 [mm]	L2	L3	L4 [mm]	L5 [mm]	L6 [mm]	H [mm]	H1 [mm]	H2	M	Z [mm]	z1 [mm]	

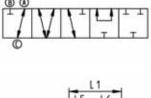
- 00		10		200	07 0-1	0 00.	.01	0-10-0		1.002				
d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	М	z	z1
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]
16	50	110	77	72	36	25	32	45	57	28	8	6	82	41
20	50	112	77	72	36	25	32	45	57	28	8	6	82	41
25	58	129	97	85	43	25	39	58	67	32	8	6	97	49
32	68	146	97	98	49	25	39	58	73	36	8	6	110	55
40	84	170	128	118	59	45	54	74	90	45	9	8	132	66
50	97	193	128	135	68	45	54	74	97	51	9	8	151	76
63	124	244	152	176	88	45	66	87	116	65	9	8	188	94



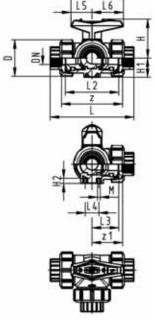




- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFF
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

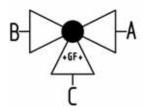


Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3/8	10	10	50	167 543 081	167 543 091	0.161
1/2	15	10	75	167 543 082	167 543 092	0.165
3/4	20	10	150	167 543 083	167 543 093	0.237
1	25	10	280	167 543 084	167 543 094	0.361
1 1/4	32	10	480	167 543 085	167 543 095	0.616
1 1/2	40	10	620	167 543 086	167 543 096	0.912
2	50	10	1230	167 543 087	167 543 097	1.773



Rp [inch]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	z [mm]	z1 [mm]
3/8	50	112	77	72	36	25	32	45	57	28	8	6	86	43
1/2	50	114	77	72	36	25	32	45	57	28	8	6	84	42
3/4	58	131	97	85	43	25	39	58	67	32	8	6	99	50
1	68	154	97	98	49	25	39	58	73	36	8	6	112	56
1 1/4	84	180	128	118	59	45	54	74	90	45	9	8	132	66
1 ½	97	203	128	135	68	45	54	74	97	51	9	8	153	77
2	124	258	152	176	88	45	66	87	116	65	9	8	196	98

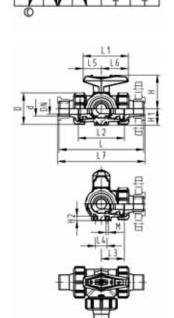




PROGEF Standard 3-Way ball valve type 543 Horizontal/L-port With socket fusion spigots metric

Model:

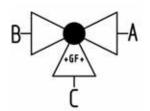
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFF
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- · Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

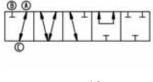


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	167 543 021	167 543 031	0.165
20	15	10	75	167 543 022	167 543 032	0.171
25	20	10	150	167 543 023	167 543 033	0.247
32	25	10	280	167 543 024	167 543 034	0.377
40	32	10	480	167 543 025	167 543 035	0.629
50	40	10	620	167 543 026	167 543 036	0.953
63	50	10	1230	167 543 027	167 543 037	1.855

d	D	L	L1	L2	L3	L4	L5	L6	L7	Н	Н1	H2	M
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
16	50	126	77	72	36	25	32	45	133	57	28	8	6
20	50	136	77	72	36	25	32	45	144	57	28	8	6
25	58	159	97	85	43	25	39	58	170	67	32	8	6
32	68	178	97	98	49	25	39	58	191	73	36	8	6
40	84	204	128	118	59	45	54	74	223	90	45	9	8
50	97	237	128	135	68	45	54	74	256	97	51	9	8
63	124	296	152	176	88	45	66	87	319	116	65	9	8





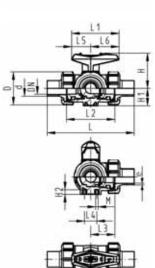




PROGEF Standard 3-Way ball valve type 543 Horizontal/L-port With butt fusion spigots IR-Plus SDR11 metric

Model:

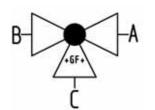
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme



[mm] [mm] (Δp=1 bar) Code Code	-	d [mm]
20 15 10 75 167 543 062 167 543 072 0.171	20 15	20
25 20 10 150 167 543 063 167 543 073 0.247	25 20	25
32 25 10 280 167 543 064 167 543 074 0.377	32 25	32
40 32 10 480 167 543 065 167 543 075 0.629	40 32	40
50 40 10 620 167 543 066 167 543 076 0.953	50 40	50
63 50 10 1230 167 543 067 167 543 077 1.855	63 50	63

d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	М	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
20	50	146	77	72	36	25	32	45	57	28	8	6	1.9
25	58	163	97	85	43	25	39	58	67	32	8	6	2.3
32	68	178	97	98	49	25	39	58	73	36	8	6	2.9
40	84	204	128	118	59	45	54	74	90	45	9	8	3.7
50	97	237	128	135	68	45	54	74	97	51	9	8	4.6
63	124	296	152	176	88	45	66	87	116	65	9	8	5.8

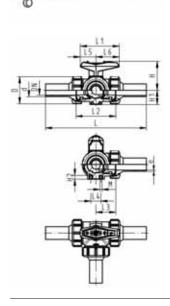






PROGEF Standard

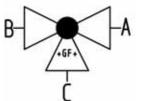
- · Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

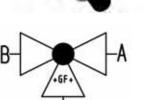


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code		FPI Cod			kg				
20	15	10	75	167 54	3 102	167	543	112	0.179				
25	20	10	150	167 54	3 103	167	543	113	0.262				
32	25	10	280	167 54	3 104	167	543	114	0.399				
40	32	10	480	167 54	3 105	167	543	115	0.675				
50	40	10	620	167 54	3 106	167	543	116	1.032				
63	50	10	1230	167 54	3 107	167	543	117	2.221				
d	D	Τ.	11 12	13	14	1.5	16	н	H1	H2	М		

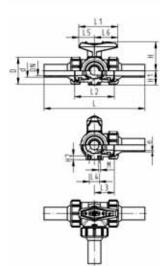
d [m	ml	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	e [mm]
Lini		firmin	firming	frining	firming	firming	firming	firming	firmin	frining	frining	firming		firmin
	20	50	210	77	72	36	25	32	45	57	28	8	6	2.3
	25	58	237	97	85	43	25	39	58	67	32	8	6	2.3
	32	68	250	97	98	49	25	39	58	73	36	8	6	2.9
	40	84	282	128	118	59	45	54	74	90	45	9	8	3.7
	50	97	317	128	135	68	45	54	74	97	51	9	8	4.6
	63	124	396	152	176	88	45	66	87	116	65	9	8	5.8
							1							











PROGEF Standard 3-Way ball valve type 543 Horizontal/L-port With butt fusion spigots long PE100 SDR11 metric

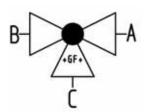
Model:

- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

	,			•	,								
d [mm]	DN [mm]	PN	kv-valu (∆p=1 l [l/min]		EPDM Code		FPI			kg			
20	15	10		75	167 54	3 122	167	543 1	32	0.179			
25	20	10		150	167 54	3 123	167	543 1	33	0.262			
32	25	10		280	167 54	3 124	167	543 1	34	0.399			
40	32	10		480	167 54	3 125	167	543 1	35	0.675			
50	40	10		620	167 54	3 126	167	543 1	36	1.032			
63	50	10	1	1230	167 54	3 127	167	543 1	37	2.221			
_	_	1.								114			
d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	M	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
20	50	21	77	72	36	25	32	45	57	28	8	6	2.3

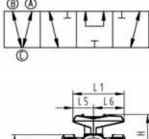
d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	M	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
20	50	210	77	72	36	25	32	45	57	28	8	6	2.3
25	58	237	97	85	43	25	39	58	67	32	8	6	2.3
32	68	250	97	98	49	25	39	58	73	36	8	6	2.9
40	84	282	128	118	59	45	54	74	90	45	9	8	3.7
50	97	317	128	135	68	45	54	74	97	51	9	8	4.6
63	124	396	152	176	88	45	66	87	116	65	9	8	5.8



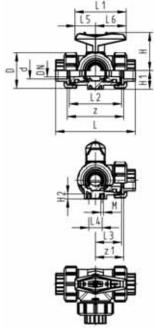




- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

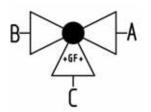


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	140	167 543 201	167 543 211	0.160	
20	15	10	200	167 543 202	167 543 212	0.164	
25	20	10	470	167 543 203	167 543 213	0.236	
32	25	10	793	167 543 204	167 543 214	0.357	
40	32	10	1290	167 543 205	167 543 215	0.609	
50	40	10	1910	167 543 206	167 543 216	0.898	
63	50	10	3100	167 543 207	167 543 217	1.857	



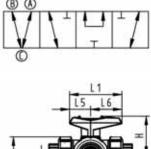
d [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	z [mm]	z1 [mm]
16	50	110	77	72	36	25	32	45	57	28	8	6	82	41
20	50	112	77	72	36	25	32	45	57	28	8	6	82	41
25	58	129	97	85	43	25	39	58	67	32	8	6	97	49
32	68	146	97	98	49	25	39	58	73	36	8	6	110	55
40	84	170	128	118	59	45	54	74	90	45	9	8	132	66
50	97	193	128	135	68	45	54	74	97	51	9	8	151	76
63	124	244	152	176	88	45	66	87	116	65	9	8	188	94



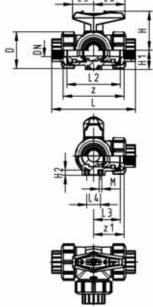




- · Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFF
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

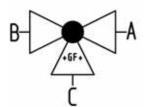


Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3/8	10	10	140	167 543 281	167 543 291	0.160	
1/2	15	10	200	167 543 282	167 543 292	0.164	
3/4	20	10	470	167 543 283	167 543 293	0.236	
1	25	10	793	167 543 284	167 543 294	0.357	
1 1/4	32	10	1290	167 543 285	167 543 295	0.609	
1 1/2	40	10	1910	167 543 286	167 543 296	0.898	
2	50	10	3100	167 543 287	167 543 297	1.744	



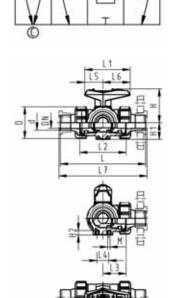
		10		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0, 04	0 20.	.01	0-10 2	.01	1.7 -1 -1				
Rp	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	М	z	z1
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]
3/8	50	112	77	72	36	25	32	45	57	28	8	6	86	43
1/2	50	114	77	72	36	25	32	45	57	28	8	6	84	42
3/4	58	131	97	85	43	25	39	58	67	32	8	6	99	50
1	68	154	97	98	49	25	39	58	73	36	8	6	112	56
1 1/4	84	180	128	118	59	45	54	74	90	45	9	8	132	66
1 1/2	97	203	128	135	68	45	54	74	97	51	9	8	153	77
2	124	258	152	176	88	45	66	87	116	65	9	8	196	98







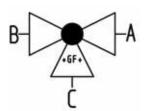
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFF
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- · Integrated stainless steel mounting inserts
- · Delivery status A-B-C opened, see flow scheme



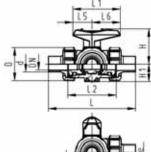
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	140	167 543 221	167 543 231	0.164
20	15	10	200	167 543 222	167 543 232	0.170
25	20	10	470	167 543 223	167 543 233	0.245
32	25	10	793	167 543 224	167 543 234	0.372
40	32	10	1290	167 543 225	167 543 235	0.622
50	40	10	1910	167 543 226	167 543 236	0.939
63	50	10	3100	167 543 227	167 543 237	1.826

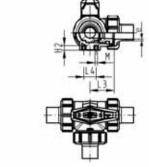
d	D	L	L1	L2	L3	L4	L5	L6	L7	Н	H1	H2	М
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
16	50	126	77	72	36	25	32	45	133	57	28	8	6
20	50	136	77	72	36	25	32	45	144	57	28	8	6
25	58	159	97	85	43	25	39	58	170	67	32	8	6
32	68	178	97	98	49	25	39	58	191	73	36	8	6
40	84	204	128	118	59	45	54	74	223	90	45	9	8
50	97	237	128	135	68	45	54	74	256	97	51	9	8
63	124	296	152	176	88	45	66	87	319	116	65	9	8











PROGEF Standard 3-Way ball valve type 543 Horizontal/T-port With butt fusion spigots IR-Plus SDR11 metric

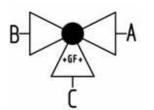
Model:

- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [//min]	EPDM Code	FPM Code	kg
20	15	10	200	167 543 262	167 543 272	0.170
25	20	10	470	167 543 263	167 543 273	0.245
32	25	10	793	167 543 264	167 543 274	0.372
40	32	10	1290	167 543 265	167 543 275	0.622
50	40	10	1910	167 543 266	167 543 276	0.939
63	50	10	3100	167 543 267	167 543 277	1.826

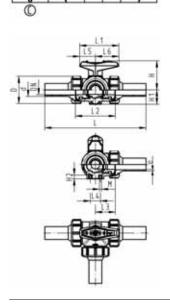
	_												
d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	M	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
20	50	146	77	72	36	25	32	45	57	28	8	6	1.9
25	58	163	97	85	43	25	39	58	67	32	8	6	2.3
32	68	178	97	98	49	25	39	58	73	36	8	6	2.9
40	84	204	128	118	59	45	54	74	90	45	9	8	3.7
50	97	237	128	135	68	45	54	74	97	51	9	8	4.6
63	124	296	152	176	88	45	66	87	116	65	9	8	5.8







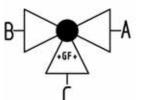
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

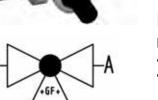


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	200	167 543 302	167 543 312	1.744	
25	20	10	470	167 543 303	167 543 313	0.160	
32	25	10	793	167 543 304	167 543 314	0.164	
40	32	10	1290	167 543 305	167 543 315	0.236	
50	40	10	1910	167 543 306	167 543 316	0.357	
63	50	10	3100	167 543 307	167 543 317	0.609	

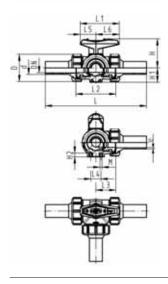
d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	М	е	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	
20	50	210	77	72	36	25	32	45	57	28	8	6	2.3	
25	58	237	97	85	43	25	39	58	67	32	8	6	2.3	
32	68	250	97	98	49	25	39	58	73	36	8	6	2.9	
40	84	282	128	118	59	45	54	74	90	45	9	8	3.7	
50	97	317	128	135	68	45	54	74	97	51	9	8	4.6	
63	124	396	152	176	88	45	66	87	116	65	9	8	5.8	











PROGEF Standard 3-Way ball valve type 543 Horizontal/T-port With butt fusion spigots long PE100 SDR11 metric

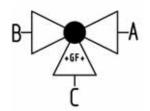
Model:

- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

d [mm]	DN [mm]	PN	kv-valu (∆p=1 l [l/min]		EPDM Code		FPI			kg				
20	15	10		200	167 54	3 322	167	543 3	32	0.179				
25	20	10		470	167 54	3 323	167	543 3	333	0.261				
32	25	10		793	167 54	3 324	167	543 3	34	0.395				
40	32	10	1	290	167 54	3 325	167	543 3	35	0.668				
50	40	10	1	910	167 54	3 326	167	543 3	36	1.019				
63	50	10	3	3100	167 54	3 327	167	543 3	37	2.192				
				1				1	1					
d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	M	е	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	
20	50	210	77	72	36	25	32	45	57	28	8	6	2.3	

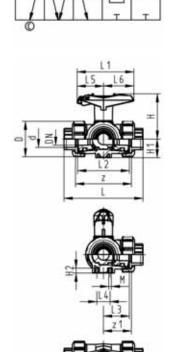
d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	M	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
20	50	210	77	72	36	25	32	45	57	28	8	6	2.3
25	58	237	97	85	43	25	39	58	67	32	8	6	2.3
32	68	250	97	98	49	25	39	58	73	36	8	6	2.9
40	84	282	128	118	59	45	54	74	90	45	9	8	3.7
50	97	317	128	135	68	45	54	74	97	51	9	8	4.6
63	124	396	152	176	88	45	66	87	116	65	9	8	5.8







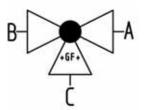
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-C opened, see flow scheme



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	167 543 561	167 543 571	0.170
20	15	10	75	167 543 562	167 543 572	0.174
25	20	10	150	167 543 563	167 543 573	0.248
32	25	10	280	167 543 564	167 543 574	0.372
40	32	10	480	167 543 565	167 543 575	0.631
50	40	10	620	167 543 566	167 543 576	0.927
63	50	10	1230	167 543 567	167 543 577	1.793

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-	ı	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	М	z	z1
1]	mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]
	16	50	110	87	72	36	25	42	45	79	28	8	6	82	41
	20	50	112	87	72	36	25	42	45	79	28	8	6	82	41
	25	58	129	108	85	43	25	50	58	88	32	8	6	97	49
	32	68	146	108	98	49	25	50	58	94	36	8	6	110	55
	40	84	170	141	118	59	45	66	75	113	45	9	8	132	66
	50	97	193	141	135	68	45	66	75	119	51	9	8	151	76
	63	124	244	165	176	88	45	78	87	141	65	9	8	188	94

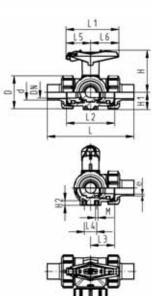








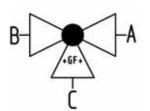
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- · Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- · Delivery status A-C opened, see flow scheme



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	75	167 543 602	167 543 612	0.180	
25	20	10	150	167 543 603	167 543 613	0.258	
32	25	10	280	167 543 604	167 543 614	0.396	
40	32	10	480	167 543 605	167 543 615	0.645	
50	40	10	620	167 543 606	167 543 616	0.968	
63	50	10	1230	167 543 607	167 543 617	1.876	

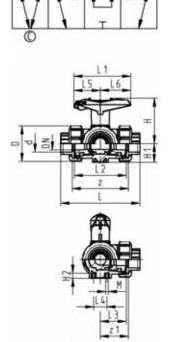
d [mm]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	H [mm]	H1 [mm]	H2 [mm]	М	e [mm]
20	50	146	87	72	36	25	42	45	79	28	8	6	1.9
25 32	58 68	163 178	108 108	85 98	43 49	25 25	50 50	58 58	88 94	32 36	8	6	2.3 2.9
40 50	84 97	204 237	141 141	118 135	59 68	45 45	66 66	75 75	113 119	45 51	9	8	3.7 4.6
63	124	296	165	176	88	45	78	87	141	65	9	8	5.8







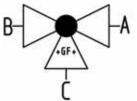
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-B-C opened, see flow scheme

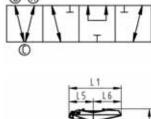


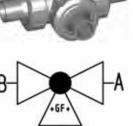
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	140	167 543 581	167 543 591	0.169
20	15	10	200	167 543 582	167 543 592	0.173
25	20	10	470	167 543 583	167 543 593	0.247
32	25	10	793	167 543 584	167 543 594	0.368
40	32	10	1290	167 543 585	167 543 595	0.624
50	40	10	1910	167 543 586	167 543 596	0.913
63	50	10	3100	167 543 587	167 543 597	1.764

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d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	M	z	z1
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]
16	50	110	87	72	36	25	42	45	79	28	8	6	82	41
20	50	112	87	72	36	25	42	45	79	28	8	6	82	41
25	58	129	108	85	43	25	50	58	88	32	8	6	97	49
32	68	146	108	98	49	25	50	58	94	36	8	6	110	55
40	84	170	141	118	59	45	66	75	113	45	9	8	132	66
50	97	193	141	135	68	45	66	75	119	51	9	8	151	76
63	124	244	165	176	88	45	78	87	141	65	9	8	188	94
									1					











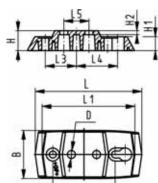
- · Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type
- Ball seals PTFE
- · Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- · Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- · Delivery status A-B-C opened, see flow scheme

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	A B

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	200	167 543 622	167 543 632	0.179	
25	20	10	470	167 543 623	167 543 633	0.257	
32	25	10	793	167 543 624	167 543 634	0.384	
40	32	10	1290	167 543 625	167 543 635	0.637	
50	40	10	1910	167 543 626	167 543 636	0.954	
63	50	10	3100	167 543 627	167 543 637	1.846	
			<u> </u>		<u>'</u>		

d	D	L	L1	L2	L3	L4	L5	L6	Н	H1	H2	М	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
20	50	146	87	72	36	25	42	45	79	28	8	6	1.9
25	58	163	108	85	43	25	50	58	88	32	8	6	2.3
32	68	178	108	98	49	25	50	58	94	36	8	6	2.9
40	84	204	141	118	59	45	66	75	113	45	9	8	3.7
50	97	237	141	135	68	45	66	75	119	51	9	8	4.6
63	124	296	165	176	88	45	78	87	141	65	9	8	5.8





Mounting plate 546 and 543 PP-GF (L02)

• 2 mounting screws inclusive

d-d [mm]	Inch [inch]	DN-DN [mm]	Code	kg	
16 - 32 40 - 63			167 484 110 167 484 111	0.054 0.066	

d-d [mm]	B [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]
16 - 32 40 - 63	48		20 20	14 14	4 4	106 149	92	62 104	31 52	41 62	25 45



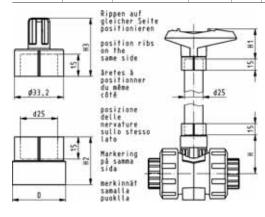


Handle extension 546 and 543 PVC-U metric

Model:

- For ball valve type 546 and 543
- Composed of adapter sockets for handle connection and stem connection
- PVC-U pipe in suitable length has to be obtained on site

d-d [mm]	DN-DN [mm]	Code	kg	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]
16 - 20	10 - 15	161 486 435	0.030	41	52	29	36	26
25 - 32	20 - 25	161 486 436	0.029	50	62	32	39	36
40 - 50	32 - 40	161 486 437	0.045	65	76	34	44	40
- 63	- 50	161 486 438	0.059	84	87	37	48	44



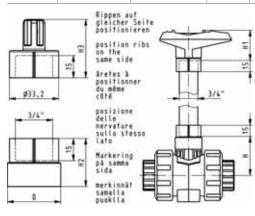
Handle extension 546 PVC-U inch BS/ASTM

Model

For Ball Valve Type 546

Includes upper and lower extension adapter, does not include 3/4" pipe

DN-DN	Inch	Code	kg	Н	H1	H2	Н3	D
[mm]				[mm]	[mm]	[mm]	[mm]	[mm]
10 - 15	3/8-1/2	161 486 443	0.032	41	52	29	36	26
20 - 25	3/4-1	161 486 444	0.030	50	62	32	39	36
32 - 40	1 1/4-1 1/2	161 486 445	0.047	65	76	34	44	40
50 -	2	161 486 446	0.058	84	87	37	48	44







Diaphragm Valves 514

PROGEF Standard Diaphragm valve type 514 With fusion sockets metric



- · Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- · Handwheel with built-in locking mechanism
- · For easy installation and removal
- Short overall length

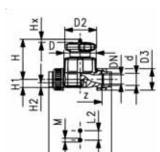
Option

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	NBR Code	EPDM Code	PTFE/EPDM Code	FPM Code	kg
20	15	10	125	167 514 002	167 514 012	167 514 032	167 514 062	0.267
25	20	10	271	167 514 003	167 514 013	167 514 033	167 514 063	0.391
32	25	10	481	167 514 004	167 514 014	167 514 034	167 514 064	1.080
40	32	10	759	167 514 005	167 514 015	167 514 035	167 514 065	1.277
50	40	10	1263	167 514 006	167 514 016	167 514 036	167 514 066	1.386
63	50	10	1728	167 514 007	167 514 017	167 514 037	167 514 067	3.030

d [mm]	D [mm]	D2 [mm]	D3 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Z [mm]	Lift = Hx [mm]
20	65	65	48	128	25	73	14	12	M6	100	7
25	80	65	58	150	25	81	18	12	M6	118	10
32	88	87	65	162	25	107	22	12	M6	126	13
40	101	87	79	184	45	115	26	15	M8	144	15
50	117	135	91	210	45	148	32	15	M8	164	19
63	144	135	111	248	45	166	39	15	M8	194	25





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PROGEF Standard Diaphragm valve type 514 With fusion sockets PE80 metric

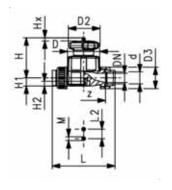
Model:

- · Material: PP-H
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- · For easy installation and removal
- Short overall length

Option

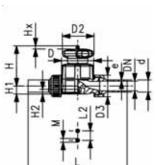
- Individual configuration of the valve (see diagram)
- · Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	15	10	125	167 514 212	167 514 232	0.371
25	20	10	271	167 514 213	167 514 233	0.501
32	25	10	481	167 514 214	167 514 234	1.103
40	32	10	759	167 514 215	167 514 235	1.299
50	40	10	1263	167 514 216	167 514 236	2.289
63	50	10	1728	167 514 217	167 514 237	2.978



d [mm]	D [mm]	D2 [mm]	D3 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Z [mm]	Lift = Hx [mm]
20	65	65	48	128	25	73	14	12	M6	100	7
25	80	65	58	150	25	81	18	12	M6	118	10
32	88	87	65	162	25	107	22	12	M6	126	13
40	101	87	79	184	45	115	26	15	M8	144	15
50	117	135	91	210	45	148	32	15	M8	164	19
63	144	135	111	248	45	166	39	15	M8	194	25





PROGEF Standard Diaphragm valve type 514 With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

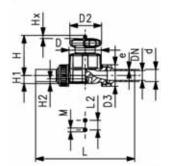
Option:

- Individual configuration of the valve (see diagram)Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-valu (Δp=1 [l/min]		NBR Code		Cod			PTFE/I Code	EPDM	FPM Code	kg
20	15	10		125	167 51	4 102	167	514 1	12	167 51	4 132	167 514 162	0.369
25	20	10		271	167 51	4 103	167	514 1	13	167 51	4 133	167 514 163	0.404
32	25	10		481	167 51	4 104	167	514 1	14	167 51	4 134	167 514 164	0.648
40	32	10		759	167 51	4 105	167	514 1	15	167 51	4 135	167 514 165	0.854
50	40	10	-	1263	167 51	4 106	167	514 1	16	167 51	4 136	167 514 166	2.313
63	50	10	,	1728	167 51	4 107	167	514 1	17	167 51	4 137	167 514 167	3.044
d	D	D2	D3	L	L2	Н	H1	H2	M	Lift =	е		
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		Hx	[mm]		

d	D	D2	D3	L	L2	Н	H1	H2	M	Lift =	е	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		Hx	[mm]	
										[mm]		
20	65	65	48	196	25	73	14	12	M6	7	1.9	
25	80	65	58	221	25	81	18	12	M6	10	2.3	
32	88	87	65	234	25	107	22	12	M6	13	2.9	
40	101	87	79	260	45	115	26	15	M8	15	3.7	
50	117	135	91	284	45	148	32	15	M8	19	4.6	
63	144	135	111	321	45	166	39	15	M8	25	5.8	





PROGEF Standard Diaphragm valve type 514 With butt and electro fusion ends PE100 SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- · Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

- Individual configuration of the valve (see diagram)

M6

M8

M8

M6

M8

 Sel 	f adju	ıstinç	g multif	unctio	onal m	nodule	e with	integ	grate	d limit s	switch	nes	
d [mm]	DN [mm]	PN	kv-valu (Δp=1 l [l/min]		EPDM Code		PTF	E/EPI le	OM	kg			
20	15	10		125	167 51	4 312	167	514 3	32	0.381			
25	20	10		271	167 51	4 313	167	5143	33	0.513			
32	25	10		481	167 51	4 314	167	5143	34	1.127			
40	32	10		759	167 51	4 315	167	5143	35	1.337			
50	40	10	1	263	167 51	4 316	167	5143	36	2.359			
63	50	10	1	728	167 51	4 317	167	514 3	37	3.088			
	_	D 0	D0				114			1.164			
d	D	D2	D3	L	L2	Н	H1	H2	M	Lift =	е		
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		Hx [mm]	[mm]		
20	65	6	5 48	196	25	73	14	12	M6	7	1,9		

2,3

2,9

3,7

4,6

5,8

Diaphragm Valves 515

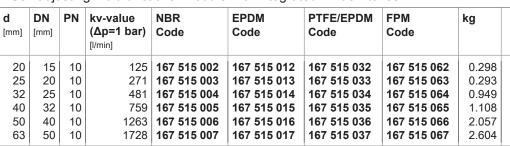
PROGEF Standard Diaphragm valve type 515 With socket fusion spigots metric



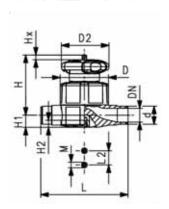
- · Material: PP-H
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

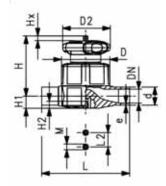
- Individual configuration of the valve (see diagram)
- · Self adjusting multifunctional module with integrated limit switches



d [mm]	D [mm]	D2 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]	e [mm]
20	65	65	124	25	73	14	12	M6	7	1.9
25	80	65	144	25	81	18	12	M6	10	2.3
32	88	87	154	25	107	22	12	M6	13	2.9
40	101	87	174	45	115	26	15	M8	15	3.7
50	117	135	194	45	148	32	15	M8	19	4.6
63	144	135	223	45	166	39	15	M8	25	5.8







PROGEF Standard Diaphragm valve type 515 With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	NBR Code	EPDM Code	PTFE/EPDM Code	FPM Code	kg
20	15	10	125	167 515 102	167 515 112	167 515 132	167 515 162	0.297
25	20	10	271	167 515 103	167 515 113	167 515 133	167 515 163	0.380
32	25	10	481	167 515 104	167 515 114	167 515 134	167 515 164	0.947
40	32	10	759	167 515 105	167 515 115	167 515 135	167 515 165	1.104
50	40	10	1263	167 515 106	167 515 116	167 515 136	167 515 166	2.052
63	50	10	1728	167 515 107	167 515 117	167 515 137	167 515 167	2.601

d [mm]	D [mm]	D2 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]	e [mm]
20	65	65	124	25	73	14	12	M6	7	1.9
25	80	65	144	25	81	18	12	M6	10	2.3
32	88	87	155	25	107	22	12	M6	13	2.9
40	101	87	176	45	115	26	15	M8	15	3.7
50	117	135	193	45	148	32	15	M8	19	4.6
63	144	135	223	45	166	39	15	M8	25	5.8

Diaphragm Valves 517

PROGEF Standard Diaphragm valve type 517 With backing flanges PP-V metric/BS





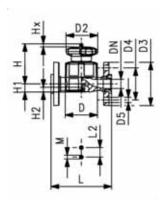
- Material: PP-H
- · Double flow rate compared to predecessor
- · One housing nut replaces four screws
- · Handwheel with built-in locking mechanism
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10
- · Flat sealing faces/serrated

Option

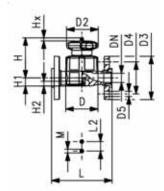
- Individual configuration of the valve (see diagram)
- · Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	NBR Code	EPDM Code	PTFE/EPDM Code	FPM Code	kg
20	15	10	125	167 517 102	167 517 112	167 517 132	167 517 162	0.480
25	20	10	271	167 517 103	167 517 113	167 517 133	167 517 163	0.628
32	25	10	481	167 517 104	167 517 114	167 517 134	167 517 164	1.296
40	32	10	759	167 517 105	167 517 115	167 517 135	167 517 165	1.640
50	40	10	1263	167 517 106	167 517 116	167 517 136	167 517 166	2.601
63	50	10	1728	167 517 107	167 517 117	167 517 137	167 517 167	3.544

-												
d [mm]	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]
20	65	65	95	65	14	130	25	73	14	12	M6	7
25	80	65	105	75	14	150	25	81	18	12	M6	10
32	88	87	115	85	14	160	25	107	22	12	M6	13
40	101	87	140	100	18	180	45	115	26	15	M8	15
50	117	135	150	110	18	200	45	148	32	15	M8	19
63	144	135	165	125	18	230	45	166	39	15	M8	25







PROGEF Standard Diaphragm valve type 517 With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- · Flat sealing faces/serrated

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTF	E/EPD de	M	kg			
1/2	15	10	125	167 517 712	167	517 73	32	0.490			
3/4	20	10	271	167 517 713	167	517 73	33	0.640			
1	25	10	481	167 517 714	167	517 73	34	1.316			
1 1/4	32	10	759	167 517 715	167	517 73	35	1.660			
1 1/2	40	10	1263	167 517 716	167	517 73	36	2.631			
2	50	10	1728	167 517 717	167	517 73	37	3.572			
	_				T	T			 		

Inch	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]
1/2	65	65	95	60	16	130	25	73	14	12	M6	7
3/4	80	65	105	70	16	150	25	81	18	12	M6	10
1	88	87	115	79	16	160	25	107	22	12	M6	13
1 1/4	101	87	140	89	16	180	45	115	26	15	M8	15
1 ½	117	135	150	98	16	200	45	148	32	15	M8	19
2	144	135	165	121	19	230	45	166	39	15	M8	25





PROGEF Standard Diaphragm valve type 317 With backing flanges PP-V Inch ANSI

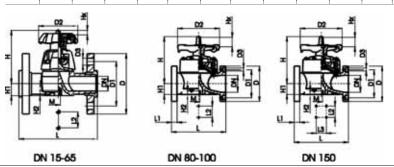
Model:

- Material: PP-H
- Jointing faces serrated With PP-V backing flanges DN 15-65
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

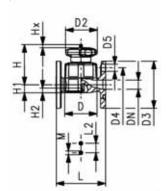
- Handwheel with built in locking mechanism
- * With PP fixed flanges, jointing faces flat

Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE with EPDM supporting di- aphragm Code	NBR Code	kg	
2 ½ * 3 * 4 * 6	65 80 100 150	10 10 10 7	1700 2700	167 317 523 167 317 024 167 317 325 167 317 027	167 317 538 167 317 039 167 317 340 167 317 042	167 317 009 167 317 310 167 317 012	4.000 7.954 11.360 25.000	

Inch	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	AL	Lift = Hx [mm]	
2 ½	185	140	152	19	290		70		210	46	15	M8	4	35	
* 3	200	160	270	18	310	35	120		265	57	23	M12	8	40	
* 4	225	190	270	19	350	38	120		304	69	23	M12	8	50	
* 6	282	241	400	23	480	29	100	200	437	108	23	M12	8	70	







PROGEF Standard Diaphragm valve type 517 With fixed flanges PP-H JIS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Connecting dimension: JIS B2238/39 10K
- Flat sealing faces/serrated

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
1/2	15	10	125	167 517 912	167 517 932	0.434
3/4	20	10	271	167 517 913	167 517 933	0.514
1	25	10	481	167 517 914	167 517 934	1.168
1 1/4	32	10	759	167 517 915	167 517 935	1.462
1 ½	40	10	1263	167 517 916	167 517 936	2.449
2	50	10	1728	167 517 917	167 517 937	3.082

Inch	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]
1/2	65	65	95	70	15	110	25	73	14	12	M6	7
3/4	80	65	100	75	15	120	25	81	18	12	M6	10
1	88	87	125	90	19	130	25	107	22	12	M6	13
1 1/4	101	87	135	100	19	180	45	115	26	15	M8	15
1 ½	117	135	140	105	19	180	45	148	32	15	M8	19
2	144	135	155	120	19	210	45	166	39	15	M8	25

Diaphragm Valves 519

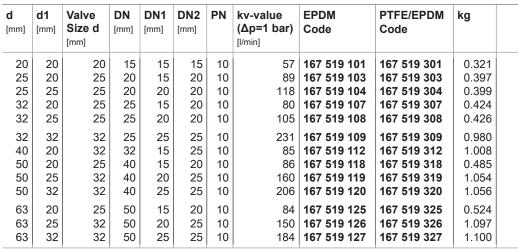
PROGEF Standard Diaphragm valve type 519 With butt fusion spigots metric



- · Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- · Smallest possible dead space

Option:

- Individual configuration of the valve (see diagram)
- · Self adjusting multifunctional module with integrated limit switches



d	D	D2	L	L1	L3	L4	Н	Lift =	е	e1			
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Hx	[mm]	[mm]			
								[mm]					
20	65	65	117	96	162	12	75	7	1.9	1.9			
25	80	65	133	108	162	16	80	10	2.3	1.9			
25	80	65	133	108	162	16	80	10	2.3	2.3			
32	80	65	142	120	162	19	84	10	2.9	1.9			
32	80	65	142	120	162	19	84	10	2.9	2.3			
32	88	87	145	120	160	19	107	13	2.9	2.9			
40	88	87	149	128	180	23	115	13	3.7	1.9			
50	80	65	160	134	180	27	97	10	4.6	1.9			
50	88	87	160	134	180	28	120	13	4.6	2.3			
50	88	87	160	134	180	28	120	13	4.6	2.9			
63	80	65	177	144	180	33	104	10	5.8	1.9			
63	88	87	177	144	180	35	127	13	5.8	2.3			
63	88	87	177	144	180	35	127	13	5.8	2.9			

Electrical feedback module I40/I41 With limit switches Ag Ni or AU



- Accessory to hand operated diaphragm valve 514 519
- No height increase
- Easy, fast and safe installation
- · Self adjusting mechanism
- Including Plug 3P+E / Protection: IP65

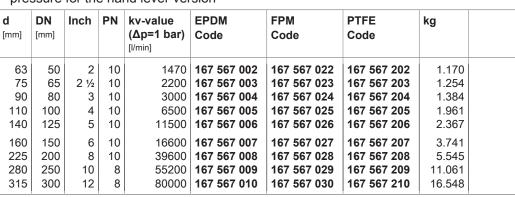
d-d [mm]	DN-DN [mm]	Size	Ag Ni Code	AU Code	kg
10 - 25	10 - 20	1	198 151 335	198 151 336	0.120
32 - 40	25 - 32	2	198 151 337	198 151 338	0.101
50 - 63	40 - 50	3	198 151 339	198 151 340	0.120

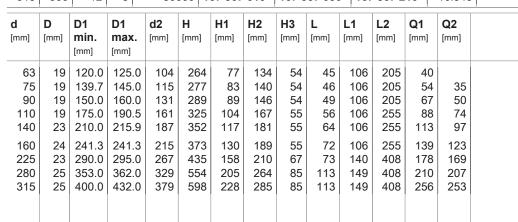
Butterfly valves



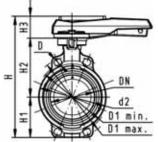


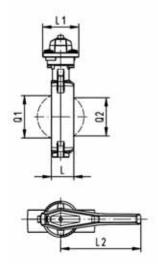
- · Material: PP-H, DN350-DN600 material PP-R
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16). ISO 5752
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version







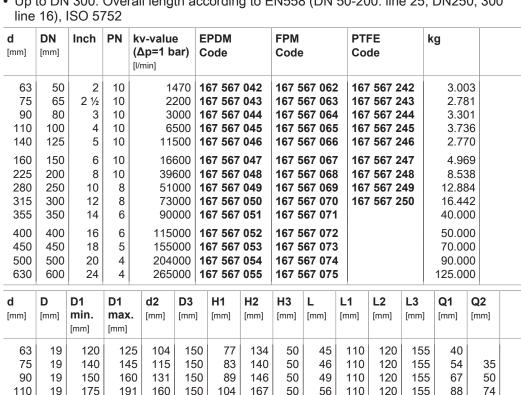


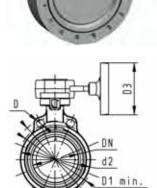


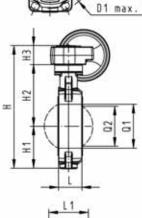


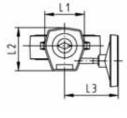


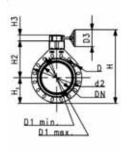
- Material: PP-H, DN350-DN600 material PP-R
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300







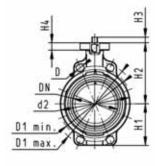


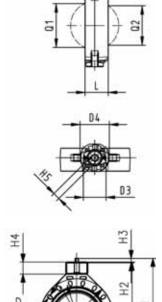


75 90 110 140	19 19 19 23	140 150 175 210	145 160 191 216	115 131 160 187	150 150 150 150	83 89 104 117	140 146 167 181	50 50 50 50	46 49 56 64	110 110 110 110	120 120 120 120 120	155 155 155 155	54 67 88 113	35 50 74 97	
160 225 280 315 355	24 23 25 25 29	241 290 353 400 445	241 295 362 432 477	215 267 329 379 535	150 150 200 200 200	130 158 205 228 268	189 210 264 285 410	50 50 55 55 69	72 73 113 113 129	110 110 130 130 180	120 120 140 140 168	155 155 200 200 218	139 178 210 256 325	123 169 207 253 305	
400 450 500 630	29 32 32 35	510 565 620 725	540 578 635 750	595 635 700 813	200 250 350 350	300 320 350 420	435 520 550 610	69 81 94 94	169 179 190 209	180 220 220 220	195 195 226 260	218 240 260 260	353 393 444 530	350 390 440 527	



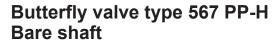






D1 min

D1 max



Model:

- Material: PP-H, DN350-DN600 material PP-R
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the Dimensions DN350-400 according to DIN/ISO 5211
- Interface F14 for the Dimensions DN450-600 according to DIN/ISO 5211

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	167 567 802	167 567 822	167 567 840	0.699
75	65	2 ½	10	2200	167 567 803	167 567 823	167 567 841	0.793
90	80	3	10	3000	167 567 804	167 567 824	167 567 842	0.913
110	100	4	10	6500	167 567 805	167 567 825	167 567 843	1.409
140	125	5	10	11500	167 567 806	167 567 826	167 567 844	1.831
160	150	6	10	16600	167 567 807	167 567 827	167 567 845	2.641
225	200	8	10	39600	167 567 808	167 567 828	167 567 846	4.110
280	250	10	8	51000	167 567 809	167 567 829	167 567 847	9.412
315	300	12	8	73000	167 567 810	167 567 830	167 567 848	13.054
355	350	14	6	90000	167 567 811	167 567 831		35.000
400	400	16	6	115000	167 567 812	167 567 832		45.000
450	450	18	5	155000	167 567 813	167 567 833		60.000
500	500	20	4	204000	167 567 814	167 567 834		75.000
630	600	24	4	265000	167 567 815	167 567 835		110.000

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]	Q2 [mm]
63 75 90 110 140	19 19 19 19 23	120 140 150 175 210	125 145 160 191 216	104 115 131 161 187	70 70 70 70 70	90 90 90 90	77 83 89 104 117	134 140 146 167 181	27 27 27 16 16	23 23 23 23 23	11 11 11 14 14	45 46 49 56 64	40 54 67 88 113	35 50 74 97
160 225 280 315 355	24 23 25 25 25 29	241 290 353 400 445	241 295 362 432 477	215 267 329 379 535	70 70 102 102 125	90 90 125 125 180	130 158 205 228 268	189 210 264 285 410	19 19 40 40 31	23 23 23 23 100	17 17 22 22 22 27	72 73 113 113 129	139 178 210 256 325	123 169 207 253 305
400 450 500 630	29 32 32 35	510 565 620 725	540 578 635 750	595 635 700 813	125 140 140 140	180 220 220 220	300 320 350 420	435 520 550 610	31 35 35 35	100 120 120 120	27 36 36 36	169 179 190 209	353 393 444 530	350 390 440 527



Integrated position indicator Automatic AU

Size	DN-DN [mm]	Code	kg
1	50 - 80	161 486 858	0.072
2		161 486 304	0.072
3	150 - 200	161 486 009	0.063



Integrated position indicator Automatic AG NI

Size	DN-DN [mm]	ON Code	kg
1	. ,	50 - 80 161 486 859	0.063
- 1	30 - 60	00 - 00 101 400 033	0.003
2	100 - 125) - 125 161 486 305	0.068
3	150 - 200) - 200 161 486 010	0.063



Integrated position indicator Electric Namur

Size	DN-DN [mm]	Code	kg
1	50 - 80	161 486 855	0.050
2		161 486 301	0.050
3	150 - 200	161 486 006	0.050



Integrated position indicator Electric PNP

Size	DN-DN [mm]	Code	kg
1	50 - 80	161 486 856	0.056
2	100 - 125	161 486 302	0.056
3	150 - 200	161 486 007	0.056



Integrated position indicator Electric NPN

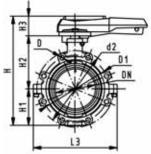
Size	DN-DN [mm]	Code	kg
1		- 80 161 486 857	0.056
ı	50 - 80	- 80 161 466 657	0.056
2	100 - 125	125 161 486 303	0.056
3	150 - 200	200 161 486 008	0.056



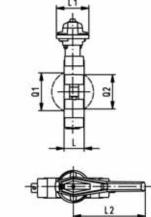
PROGEF Standard Lugstyle butterfly valve type 568 Hand lever with ratchet settings

Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
 Overall length according to EN 558, ISO 5752



• • •					000, .000.			
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	167 568 002	167 568 022	167 568 202	3.374
75	65	2 1/2	10	2200	167 568 003	167 568 023	167 568 203	3.397
90	80	3	10	3000	167 568 004	167 568 024	167 568 204	4.817
110	100	4	10	6500	167 568 005	167 568 025	167 568 205	5.835
140	125	5	10	11500	167 568 006	167 568 026	167 568 206	7.665
160	150	6	10	16600	167 568 007	167 568 027	167 568 207	10.588
225	200	8	10	39600	167 568 008	167 568 028	167 568 208	18.188



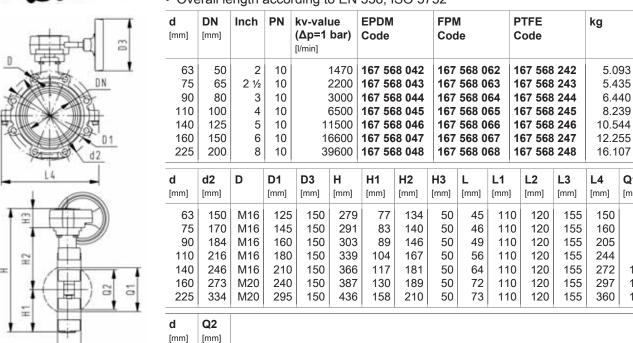
d (mm) d2 (mm) D D1 (mm) H (mm) H1 (mm) H2 (mm) H3 (mm) L (mm) L1 (mm) L2 (mm) L3 (mm) Q1 (mm) Q2 (mm) 63 150 M16 125 265 77 134 54 45 106 205 150 40 75 170 M16 145 277 83 140 54 46 106 205 160 54 35 90 184 M16 160 289 89 146 54 49 106 205 205 67 50 110 216 M16 180 326 104 167 55 56 106 255 244 88 74 140 246 M16 210 353 117 181 55 64 106 255 272 113 97 160 273 M20 240 374 130 189		200	0	10	3	9000	107 30	000	107	300 0	20 1	07 300 200		10.100	
75			D						L [mm]					-	
	75 90 110 140 160	170 184 216 246 273	M16 M16 M16 M16 M20	145 160 180 210 240	277 289 326 353 374	83 89 104 117 130	140 146 167 181 189	54 54 55 55 55	46 49 56 64 72	106 106 106 106 106	205 205 255 255 255	160 205 244 272 297	54 67 88 113 139	50 74 97 123	



PROGEF Standard Lugstyle butterfly valve type 568 Reduction gear with handwheel

Model:

- · Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752



225	334	M20	295	150	436	158	210	50	73	110	120	155	360	178	
d [mm]	Q2 [mm]														_
63 75 90 110 140 160 225	35 50 74 97 123 169														

+GF+

Q1

[mm]

40

54

67

88

113

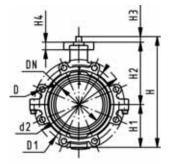
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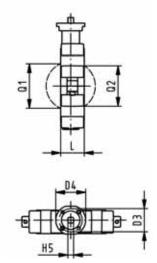
PROGEF Standard Lugstyle butterfly valve type 568 Bare shaft

Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
 Overall length according to EN 558, ISO 5752
- Interface F07 according to DIN/ISO 5211



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	167 568 802	167 568 822	167 568 840	2.833
75	65	2 ½	10	2200	167 568 803	167 568 823	167 568 841	3.175
90	80	3	10	3000	167 568 804	167 568 824	167 568 842	4.180
110	100	4	10	6500	167 568 805	167 568 825	167 568 843	5.565
140	125	5	10	11500	167 568 806	167 568 826	167 568 844	7.395
160	150	6	10	16600	167 568 807	167 568 827	167 568 845	9.179
225	200	8	10	39600	167 568 808	167 568 828	167 568 846	13.847

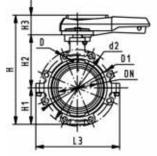


223	223 200 0		10	10 3900		107 300 000			107 300 020			040	13.047		
d [mm]	d2 [mm]	D	D1 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	Q1 [mm]	Q2 [mm]		
63	150	M16	125	70	90	222	77	134	27	23	45	40			
75	170	M16	145	70	90	235	83	140	27	23	46	54	35		
90	184	M16	160	70	90	247	89	146	27	23	49	67	50		
110	216	M16	180	70	90	287	104	167	16	23	56	88	74		
140	246	M16	210	70	90	313	117	181	16	23	64	113	97		
160	273	M20	240	70	90	335	130	189	19	23	72	139	123		
225	334	M20	295	70	90	387	158	210	19	23	73	178	169		

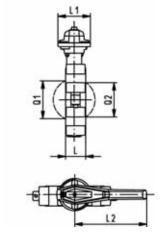


PROGEF Standard Lugstyle butterfly valve type 568 Hand lever with ratchet settings

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752



Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
2	50	10	1470	167 568 102	167 568 122	167 568 302	3.055
2 1/2	65	10	2200	167 568 103	167 568 123	167 568 303	3.397
3	80	10	3000	167 568 104	167 568 124	167 568 304	3.773
4	100	10	6500	167 568 105	167 568 125	167 568 305	5.835
5	125	10	11500	167 568 106	167 568 126	167 568 306	7.665
6	150	10	16600	167 568 107	167 568 127	167 568 307	9.449
8	200	10	39600	167 568 108	167 568 128	167 568 308	14.654

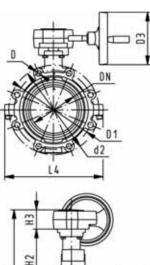


Inch	d2	D	D1	Н	H1	H2	Н3	L	L1	L2	L3	Q1	Q2
	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
2	150	UNC 5/8	121	265	77	134	54	45	106	205	150	40	
2 ½	170	UNC 5/8	138	277	83	140	54	46	106	205	160	54	35
3	177	UNC 5/8	152	289	89	146	54	49	106	205	175	67	50
4	216	UNC 5/8	191	326	104	167	55	56	106	255	244	88	74
5	246	UNC 3/4	216	353	117	181	55	64	106	255	272	113	97
6	273	UNC 3/4	241	374	130	189	55	72	106	255	297	139	123
8	334	UNC 3/4	298	435	158	210	67	73	140	408	360	178	169



PROGEF Standard Lugstyle butterfly valve type 568 Reduction gear with handwheel

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752



Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
2	50	10	1470	167 568 142	167 568 162	167 568 342	5.093
2 1/2	65	10	2200	167 568 143	167 568 163	167 568 343	5.435
3	80	10	3000	167 568 144	167 568 164	167 568 344	5.955
4	100	10	6500	167 568 145	167 568 165	167 568 345	7.825
5	125	10	11500	167 568 146	167 568 166	167 568 346	9.655
6	150	10	16600	167 568 147	167 568 167	167 568 347	11.439
8	200	10	39600	167 568 148	167 568 168	167 568 348	16.107

Inch	d2 [mm]	D	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	Q1 [mm]
2	150	UNC 5/8	121	150	279	77	134	50	45	110	120	155	150	40
2 ½	170	UNC 5/8	138	150	291	83	140	50	46	110	120	155	160	54
3	177	UNC 5/8	152	150	303	89	146	50	49	110	120	155	175	67
4	216	UNC 5/8	191	150	339	104	167	50	56	110	120	155	244	88
5	246	UNC 3/4	216	150	366	117	181	50	64	110	120	155	272	113
6	273	UNC 3/4	241	150	387	130	189	50	72	110	120	155	297	139
8	334	UNC 3/4	298	150	436	158	210	50	73	110	120	155	360	178

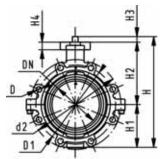
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Inch	Q2 [mm]						-	
2								
2 ½	35							
3	50							
4	74							
5	97							
6	123							
8	169							

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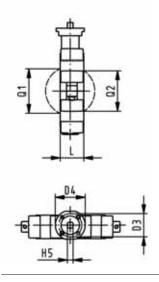


PROGEF Standard Lugstyle butterfly valve type 568 Bare shaft

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension ANSI/ASME B 16.5 Class 150
 Overall length according to EN 558, ISO 5752
- Interface F07 according to DIN/ISO 5211



Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
2	50	10	1470	167 568 902	167 568 922	167 568 942	2.833
2 ½	65	10	2200	167 568 903	167 568 923	167 568 943	3.175
3	80	10	3000	167 568 904	167 568 924	167 568 944	3.551
4	100	10	6500	167 568 905	167 568 925	167 568 945	5.565
5	125	10	11500	167 568 906	167 568 926	167 568 946	7.395
6	150	10	16600	167 568 907	167 568 927	167 568 947	9.179
8	200	10	39600	167 568 908	167 568 928	167 568 948	13.847



		_										0.4	
Inch	d2	D	D1	D3	D4	Н	H1	H2	Н3	H4	L	Q1	Q2
	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
2	150	UNC 5/8	121	70	90	222	77	134	27	23	45	40	
2 1/2	170	UNC 5/8	138	70	90	235	83	140	27	23	46	54	35
3	177	UNC 5/8	152	70	90	247	89	146	27	23	49	67	50
4	216	UNC 5/8	191	70	90	287	104	167	16	23	56	88	74
5	246	UNC 3/4	216	70	90	313	117	181	16	23	64	113	97
6	273	UNC 3/4	241	70	90	335	130	189	19	23	72	139	123
8	334	UNC 3/4	298	70	90	387	158	210	19	23	73	178	169

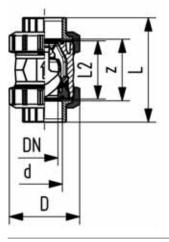
Cone check valves



PROGEF Standard Check valve type 561 With fusion sockets metric

Model:

- Material: PP-H
- · Designed for easy installation and removal
- Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For vertical installation
- · Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



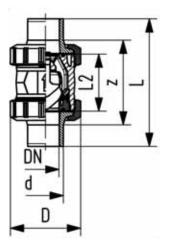
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	Z [mm]
16	10	10	190	167 561 001	167 561 011	0.080	50	93	56	67
20	15	10	180	167 561 002	167 561 012	0.080	50	95	56	66
25	20	10	380	167 561 003	167 561 013	0.180	58	109	65	77
32	25	10	460	167 561 004	167 561 014	0.190	68	119	71	83
40	32	10	850	167 561 005	167 561 015	0.340	84	135	85	99
50	40	10	1080	167 561 006	167 561 016	0.480	97	147	89	105
63	50	10	1670	167 561 007	167 561 017	0.974	124	168	101	117
75	65	10	2950	167 561 008	167 561 018	2.310	166	233	136	167
90	80	10	3600	167 561 009	167 561 019	3.580	200	254	141	180
110	100	10	4150	167 561 010	167 561 020	5.930	238	301	164	215



PROGEF Standard Check valve type 561 With socket fusion spigots metric

Modal.

- Material: PP-H
- Designed for easy installation and removal
- · Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]
16	10	10	190	167 561 041	167 561 051	0.080	50	110	56
20	15	10	180	167 561 042	167 561 052	0.090	50	120	56
25	20	10	380	167 561 043	167 561 053	0.190	58	139	65
32	25	10	460	167 561 044	167 561 054	0.200	68	150	71
40	32	10	850	167 561 045	167 561 055	0.350	84	170	85
50	40	10	1080	167 561 046	167 561 056	0.510	97	190	89
63	50	10	1670	167 561 047	167 561 057	0.950	124	220	101
75	65	10	2950	167 561 048	167 561 058	2.370	166	280	136
90	80	10	3600	167 561 049	167 561 059	3.750	200	296	141
110	100	10	4150	167 561 050	167 561 060	5.980	238	336	164



PROGEF Standard Check valve type 561 With threaded sockets reinforced Rp

Model:

- · Material: PP-H
- Designed for easy installation and removal
- · Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For vertical installation
- · Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	Z [mm]
3/8	10	10	190	167 561 021	167 561 031	0.080	50	96	56	69
1/2	15	10	180	167 561 022	167 561 032	0.090	50	99	56	67
3/4	20	10	380	167 561 023	167 561 033	0.180	58	111	65	78
1	25	10	460	167 561 024	167 561 034	0.210	68	127	71	85
1 1/4	32	10	850	167 561 025	167 561 035	0.360	84	146	85	100
1 ½	40	10	1080	167 561 026	167 561 036	0.510	97	157	89	106
2	50	10	1670	167 561 027	167 561 037	0.920	124	183	101	121



DN

PROGEF Standard Check valve type 561 With fixed flanges metric

Model:

- Material: PP-H
- · Designed for easy installation and removal
- · Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- · For vertical installation

100

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125

40

50

140

150

18

18

170

190

220

85

89

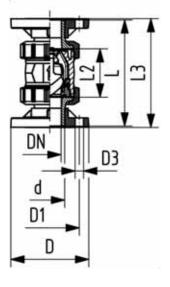
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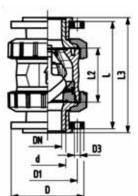
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- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts not compatible with type 360
- Installation length according to EN 558-1
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



							,	,
d [mm]	DN [mm]		kv-val (∆p=1 ^[l/min]		EPDM Code		FPM Code	kg
20	15	10		180	167 56	1 182	167 561 192	0.220
25	20	10		380	167 56	1 183	167 561 193	0.350
32	25	10		460	167 56	1 184	167 561 194	0.440
40	32	10		850	167 56	1 185	167 561 195	0.730
50	40	10		1080	167 56	1 186	167 561 196	0.970
63	50	10		1670	167 56	1 187	167 561 197	1.600
d	D	D1	D3	L	L2	L3		
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
20	95	65	14	120	56	130		
25	105	75	14	140	65	150		
32	115	QF	11	150	71	160		





PROGEF Standard Check valve type 561 With backing flanges PP-st metric

Model:

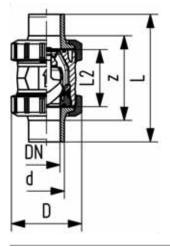
- · Material: PP-H
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For vertical installation
- · Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

								,			,			
d [mm]	DN [mm]		kv-val (∆p=1 ^[l/min]		EPDM Code		FPN Cod	-		kg	I			
75	65	10		2950	167 56	61 428	167	561 43	38	4	.720			
90	80	10		3600	167 56	31 429	167	561 43	39	6	3.860			
110	100	10		4150	167 56	31 430	167	561 44	10	9	0.300			
d	D	D1	D3	Н	H1	L	L1	L2	L3		L4	L5	L6	М
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm	1]	[mm]	[mm]	[mm]	
75	166	145	18	149	85	280	270	136	29	90	70	64	206	M8
90	200	160	18	161	105	296	270	141	31	10	70	64	206	M8
110	238	180	18	178	123	336	320	164	35	50	120	64	256	M12
		1		1										



PROGEF Standard Check valve type 561 With butt fusion spigots SDR17,6 metric

- Material: PP-H
- Designed for easy installation and removal
- · Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For vertical installation
- · Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

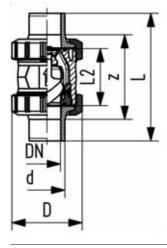


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	e [mm]
50	40	10	1080	167 561 066	167 561 076	0.510	97	191	89	2.9
63	50	10	1670	167 561 067	167 561 077	0.940	124	220	101	3.6
75	65	10	2950	167 561 068	167 561 078	2.360	166	266	136	4.7
90	80	10	3600	167 561 069	167 561 079	3.670	200	264	141	5.5
110	100	10	4150	167 561 070	167 561 080	5.820	238	301	164	6.8



PROGEF Standard Check valve type 561 With butt fusion spigots IR-Plus SDR11 metric

- Material: PP-H
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts not compatible with type 360



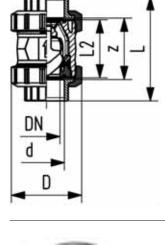
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	e [mm]
20	15	10	180	167 561 082	167 561 092	0.080	50	130	56	1.9
25	20	10	380	167 561 083	167 561 093	0.180	58	143	65	2.3
32	25	10	460	167 561 084	167 561 094	0.190	68	150	71	2.9
40	32	10	850	167 561 085	167 561 095	0.340	84	171	85	3.7
50	40	10	1080	167 561 086	167 561 096	0.490	97	191	89	4.6
63	50	10	1670	167 561 087	167 561 097	0.930	124	220	101	5.8
75	65	10	2950	167 561 088	167 561 098	2.360	166	266	136	6.8
90	80	10	3600	167 561 089	167 561 099	3.680	200	264	141	8.2
110	100	10	4150	167 561 090	167 561 100	5.830	238	301	164	10.0





- · Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- · Designed for easy installation and removal
- · Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts not compatible with type 360

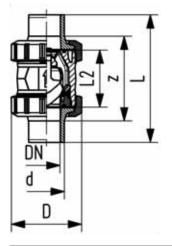
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	Z [mm]
16	10	10	190	167 562 001	167 562 011	0.080	50	93	56	67
20	15	10	180	167 562 002	167 562 012	0.080	50	95	56	66
25	20	10	380	167 562 003	167 562 013	0.180	58	109	65	77
32	25	10	460	167 562 004	167 562 014	0.190	68	119	71	83
40	32	10	850	167 562 005	167 562 015	0.340	84	135	85	99
50	40	10	1080	167 562 006	167 562 016	0.480	97	147	89	105
63	50	10	1670	167 562 007	167 562 017	0.880	124	168	101	117
75	65	10	2950	167 562 008	167 562 018	2.310	166	233	136	167
90	80	10	3600	167 562 009	167 562 019	3.580	200	254	141	180
110	100	10	4150	167 562 010	167 562 020	5.930	238	301	164	215



PROGEF Standard Check valve type 562 With socket fusion spigots metric

Model:

- · Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- · Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For horizontal or vertical installation
- · Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]
16	10	10	190	167 562 041	167 562 051	0.080	50	110	56
20	15	10	180	167 562 042	167 562 052	0.090	50	120	56
25	20	10	380	167 562 043	167 562 053	0.190	58	139	65
32	25	10	460	167 562 044	167 562 054	0.200	68	150	71
40	32	10	850	167 562 045	167 562 055	0.350	84	170	85
50	40	10	1080	167 562 046	167 562 056	0.510	97	190	89
63	50	10	1670	167 562 047	167 562 057	0.950	124	220	101
75	65	10	2950	167 562 048	167 562 058	2.370	166	280	136
90	80	10	3600	167 562 049	167 562 059	3.750	200	296	141
110	100	10	4150	167 562 050	167 562 060	5.980	238	336	164

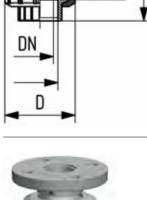


PROGEF Standard Check valve type 562 With threaded sockets reinforced Rp

Model:

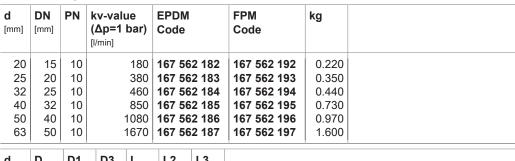
- · Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- · Spring available in other materials, see spare parts
- · Designed for easy installation and removal
- Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- · For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	Z [mm]
3/8	10	10	190	167 562 021	167 562 031	0.080	50	96	56	69
1/2	15	10	180	167 562 022	167 562 032	0.090	50	99	56	67
3/4	20	10	380	167 562 023	167 562 033	0.180	58	111	65	78
1	25	10	460	167 562 024	167 562 034	0.210	68	127	71	85
1 1/4	32	10	850	167 562 025	167 562 035	0.360	84	146	85	100
1 1/2	40	10	1080	167 562 026	167 562 036	0.510	97	157	89	106
2	50	10	1670	167 562 027	167 562 037	0.920	124	183	101	121



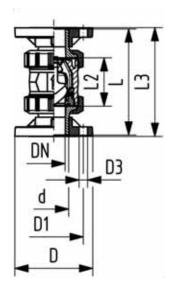
PROGEF Standard Check valve type 562 With fixed flanges metric

- · Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Installation length according to EN 558-1
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

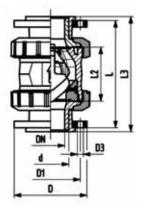


d [mm]	D [mm]	D1 [mm]	D3 [mm]	L [mm]	L2 [mm]	L3 [mm]
20	95	65	14	120	56	130
25	105	75	14	140	65	150
32	115	85	14	150	71	160
40	140	100	18	170	85	180
50	150	110	18	190	89	200
63	165	125	18	220	101	230









PROGEF Standard Check valve type 562 With backing flanges PP-st metric

Model:

- · Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- · Designed for easy installation and removal
- · Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For horizontal or vertical installation
- · Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts not compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

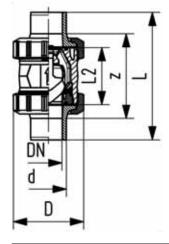
						,					,			
d [mm]	DN [mm]	PN	kv-val (∆p=1 ^[l/min]		EPDM Code		FPM	-		kg	I			
75	65	10		2950	167 56	62 428	167	562 43	38	4	.720			
90	80	10		3600	167 56	62 429	167	562 43	39	6	6.860			
110	100	10		4150	167 56	62 430	167	562 44	10	9	0.300			
d	D	D1	D3	Н	H1	L	L1	L2	L3		L4	L5	L6	М
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mn	1]	[mm]	[mm]	[mm]	
75 90	166 200	145 160		149 161	85 105	280 296	270 270	136 141		90	70 70	64 64	206 206	M8 M8
110	238	180		178	123	336	320	164		50	120	64	256	M12



PROGEF Standard Check valve type 562 With butt fusion spigots SDR17,6 metric

Model:

- · Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- · For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts not compatible with type 360

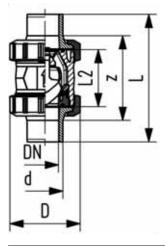


d [mm] DN [mm] PN (Δp=1 bar) [l/min] key (Δp=1 bar) [l/min] FPM Code kg D [mm] L [mm] L2 [mm] e [mm] 50 40 10 1080 167 562 066 167 562 067 167 562 077 0.940 124 220 101 3.6 167 562 077 0.940 124 220 101 3.6 10 3.6 75 65 10 2950 167 562 068 167 562 078 167 562 078 167 562 079 167 562 079 167 562 079 167 562 079 167 562 079 167 562 079 167 562 079 167 562 080 164 164 16.8 167 562 079 167 562 080 167 562 080 164 164 16.8
63 50 10 1670 167 562 067 167 562 077 0.940 124 220 101 3.6 75 65 10 2950 167 562 068 167 562 078 2.360 166 266 136 4.7 90 80 10 3600 167 562 069 167 562 079 3.670 200 264 141 5.5
75 65 10 2950 167 562 068 167 562 078 2.360 166 266 136 4.7 90 80 10 3600 167 562 069 167 562 079 3.670 200 264 141 5.5
90 80 10 3600 167 562 069 167 562 079 3.670 200 264 141 5.5
110 100 10 4150 167 562 070 167 562 080 5.820 238 301 164 6.8





- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	e [mm]
20	15	10	180	167 562 082	167 562 092	0.080	50	130	56	1.9
25	20	10	380	167 562 083	167 562 093	0.180	58	143	65	2.3
32	25	10	460	167 562 084	167 562 094	0.190	68	150	71	2.9
40	32	10	850	167 562 085	167 562 095	0.340	84	171	85	3.7
50	40	10	1080	167 562 086	167 562 096	0.490	97	191	89	4.6
63	50	10	1670	167 562 087	167 562 097	0.930	124	220	101	5.8
75	65	10	2950	167 562 088	167 562 098	2.360	166	266	136	6.8
90	80	10	3600	167 562 089	167 562 099	3.680	200	264	141	8.2
110	100	10	4150	167 562 090	167 562 100	5.830	238	301	164	10.0

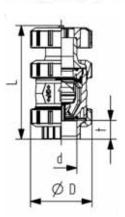
Air release valve





- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- · Designed for easy installation and removal
- Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg	D [mm]	L [mm]	t [mm]
[iiiiii]	[iiiiii]		Code	Code		[iiiiii]	[iiiiii]	[iiiiii]
16	10	10	167 591 001	167 591 011	0.097	50	126	14
20	15	10	167 591 002	167 591 012	0.097	50	127	15
25	20	10	167 591 003	167 591 013	0.203	58	142	16
32	25	10	167 591 004	167 591 014	0.224	68	153	18
40	32	10	167 591 005	167 591 015	0.392	84	171	19
50	40	10	167 591 006	167 591 016	0.549	97	190	21
63	50	10	167 591 007	167 591 017	0.986	124	219	28
75	65	10	167 591 008	167 591 018	2.310	166	256	29
90	80	10	167 591 009	167 591 019	3.580	200	275	33
110	100	10	167 591 010	167 591 020	5.930	238	318	39

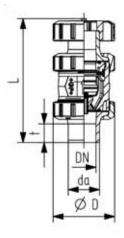


PROGEF Standard Ventilating and bleed valve type 591 With socket fusion spigots metric

- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- · Compact installation length

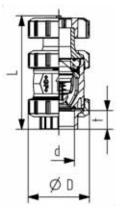
d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg	D [mm]	L [mm]	t [mm]
16	10	10	167 591 041	167 591 051	0.097	50	135	13
20	15	10	167 591 042	167 591 052	0.107	50	140	14
25	20	10	167 591 043	167 591 053	0.213	58	157	16
32	25	10	167 591 044	167 591 054	0.234	68	168	18
40	32	10	167 591 045	167 591 055	0.402	84	189	20
50	40	10	167 591 046	167 591 056	0.579	97	211	23
63	50	10	167 591 047	167 591 057	1.056	124	245	27
75	65	10	167 591 048	167 591 058	2.370	166	280	48
90	80	10	167 591 049	167 591 059	3.750	200	296	49
110	100	10	167 591 050	167 591 060	5.980	238	336	54











PROGEF Standard Ventilating valve type 595 With fusion sockets metric

Model:

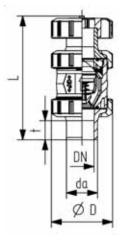
- · Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- · Spring loaded, spring made of NIMONIC 90, HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- · Compact installation length

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg	D [mm]	L [mm]	t [mm]	
16	10	10	167 595 001	167 595 011	0.097	50	126	14	
20	15	10	167 595 002	167 595 012	0.097	50	127	15	
25	20	10	167 595 003	167 595 013	0.203	58	142	16	
32	25	10	167 595 004	167 595 014	0.224	68	153	18	
40	32	10	167 595 005	167 595 015	0.392	84	171	19	
50	40	10	167 595 006	167 595 016	0.549	97	190	21	
63	50	10	167 595 007	167 595 017	0.986	124	219	28	
75	65	10	167 595 008	167 595 018	2.310	166	256	29	
90	80	10	167 595 009	167 595 019	3.580	200	275	33	
110	100	10	167 595 010	167 595 020	5.930	238	318	39	



PROGEF Standard Ventilating valve type 595 With socket fusion spigots metric

- · Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- · Spring loaded, spring made of NIMONIC 90, HALAR coated
- · Spring available in other materials, see spare parts
- · Designed for easy installation and removal
- · Compact installation length



d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg	D [mm]	L [mm]	t [mm]
16	10	10	167 595 041	167 595 051	0.097	50	135	13
20 25	15 20	10 10	167 595 042 167 595 043	167 595 052 167 595 053	0.107 0.213	50 58	140 157	14 16
32 40	25 32	10 10	167 595 044 167 595 045	167 595 054 167 595 055	0.234 0.402	68 84	168 189	18 20
50	40	10	167 595 045	167 595 055	0.402	97	211	23
63	50	10	167 595 047	167 595 057	1.056	124	245	27
75 90	65 80	10 10	167 595 048 167 595 049	167 595 058 167 595 059	2.370 3.750	166 200	280 296	48 49
110	100	10	167 595 050	167 595 060	5.980	238	336	54

Wafer Check Valves 369

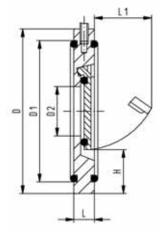




- · Material: PP-H
- · Supporting eyelets for simple fitting
- · Suitable for vertical and horizontal mounting

Installation instruction:

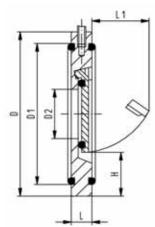
- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- · Centering by body diameter
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- · No direct installation on pump flange or following bend allowed
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)



d	DN	PN	EPDM	FPM	kg
[mm]	[mm]		Code	Code	9
40	32	6	167 369 002	167 369 022	0.084
50	40	10	167 369 003	167 369 023	0.110
63	50	10	167 369 004	167 369 024	0.159
75	65	10	167 369 005	167 369 025	0.232
90	80	10	167 369 006	167 369 026	0.264
110	100	10	167 369 007	167 369 027	0.405
140	125	10	167 369 009	167 369 029	0.594
160	150	6	167 369 010	167 369 030	0.805
225	200	6	167 369 011	167 369 031	1.400
280	250	6	167 369 012	167 369 032	2.400
315	300	6	167 369 013	167 369 033	3.520

d [mm]	D [mm]	D1 [mm]	D2 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical [mbar]	Opening pressure hor- izontal [mbar]	Minimum water col- umn for sealing
40	85	59	18	25	15	22	10	1	3.0
50	95	72	22	28	16	27	10	1	3.0
63	109	86	32	29	18	40	10	1	3.0
75	129	105	40	31	20	55	10	1	3.0
90	144	119	54	32	20	67	10	1	3.0
110	164	146	70	31	23	67	10	1	3.0
140	195	173	92	35	23	94	10	1	3.0
160	220	197	105	42	26	100	10	1	3.0
225	275	255	154	38	35	152	18	1	3.0
280	330	312	192	41	40	180	18	1	3.0
315	380	363	227	41	45	215	18	1	3.0





PROGEF Standard Wafer check valve type 369 With V4A spring (stainless steel 316)

Model:

- · Material: PP-H
- · Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

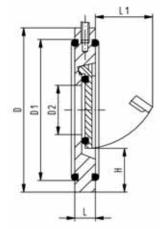
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- · Centering by body diameter
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- · No direct installation on pump flange or following bend allowed

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg
40	32	6	167 369 042	167 369 062	0.071
50	40	10	167 369 043	167 369 063	0.100
63	50	10	167 369 044	167 369 064	0.170
75	65	10	167 369 045	167 369 065	0.245
90	80	10	167 369 046	167 369 066	0.260
110	100	10	167 369 047	167 369 067	0.370
140	125	10	167 369 049	167 369 069	0.500
160	150	6	167 369 050	167 369 070	0.740
225	200	6	167 369 051	167 369 071	1.400
280	250	6	167 369 052	167 369 072	2.400
315	300	6	167 369 053	167 369 073	3.520

d [mm]	D [mm]	D1 [mm]	D2 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical [mbar]	Opening pressure hor- izontal [mbar]	Minimum water col- umn for sealing	
40	85	59	18	25	15	22	30	20	3.0	
50	95	72	22	28	16	27	30	20	3.0	
63	109	86	32	29	18	40	30	20	3.0	
75	129	105	40	31	20	55	30	20	3.0	
90	144	119	54	32	20	67	30	20	3.0	
110	164	146	70	31	23	67	30	20	3.0	
140	195	173	92	35	23	94	30	20	3.0	
160	220	197	105	42	26	100	30	20	3.0	
225	275	255	154	38	35	152	38	20	3.0	
280	330	312	192	41	40	180	38	20	3.0	
315	380	363	227	41	45	215	38	20	3.0	





PROGEF Standard Wafer check valve type 369 With Hastelloy C spring

Model:

- · Material: PP-H
- · Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

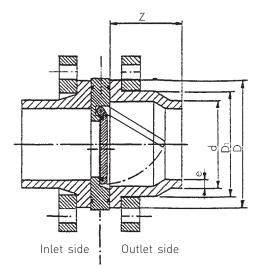
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- · Centering by body diameter
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- · No direct installation on pump flange or following bend allowed

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg
40	32	6	167 369 082	167 369 102	0.090
50	40	10	167 369 083	167 369 103	0.097
63	50	10	167 369 084	167 369 104	0.170
75	65	10	167 369 085	167 369 105	0.220
90	80	10	167 369 086	167 369 106	0.264
110	100	10	167 369 087	167 369 107	0.370
140	125	10	167 369 089	167 369 109	0.500
160	150	6	167 369 090	167 369 110	0.760
225	200	6	167 369 091	167 369 111	1.400
280	250	6	167 369 092	167 369 112	2.400
315	300	6	167 369 093	167 369 113	3.520

d [mm]	D [mm]	D1 [mm]	D2 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical [mbar]	Opening pressure hor- izontal [mbar]	Minimum water col- umn for sealing [m]	
40	85	59	18	25	15	22	30	20	3.0	
50	95	72	22	28	16	27	30	20	3.0	
63	109	86	32	29	18	40	30	20	3.0	
75	129	105	40	31	20	55	30	20	3.0	
90	144	119	54	32	20	67	30	20	3.0	
110	164	146	70	31	23	67	30	20	3.0	
140	195	173	92	35	23	94	30	20	3.0	
160	220	197	105	42	26	100	30	20	3.0	
225	275	255	154	38	35	152	38	20	3.0	
280	330	312	192	41	40	180	38	20	3.0	
315	380	363	227	41	45	215	38	20	3.0	

Component Parts for Flange Assembly, Type 369 PP



Warning: This outlet flange adaptor has to be installed on the outlet side!

Socket Fusion System PP/PE Inlet side

	d	DN	Inch	PP Code	PE Code	
PP/PE Flange adaptor metric	40 50 63 75 90 110	32 40 50 65 80 100	1 ¹ / ₄ 1 ¹ / ₂ 2 2 ¹ / ₂ 3 4	727 790 209 727 790 210 727 790 211 727 790 212 727 790 213 727 790 214	753 790 209 753 790 210 753 790 211 753 790 212 753 790 213 753 790 214	
	d	DN	Inch	for flange adaptor m	netric for flange adaptor metric PP with steel ring	
Backing flange metric for socket fusion systems Connecting dimension DIN 2501 PN 10	40 50 63 75 90 110	32 40 50 65 80 100	1'/ ₄ 1'/ ₂ 2 2'/ ₂ 3 4	727 700 409 727 700 410 727 700 411 727 700 412 727 700 413 727 700 414	727 700 209 727 700 210 727 700 211 727 700 212 727 700 213 727 700 214	

Outlet side

	d	DN	Inch	Jointing face flat PP Code	Jointing face flat PE Code	D	D ₁	z
PP/PE Outlet flange adaptor with fusion socket metric	40 50 63 75 90 110	32 40 50 65 80 100	1 ¹ / ₄ 1 ¹ / ₂ 2 2 ¹ / ₂ 3 4	727 800 009 727 800 010 727 800 011 727 800 012 727 800 013 727 800 014	733 800 009 733 800 010 733 800 011 733 800 012 733 800 013 733 800 014	61 73 90 106 125 150	50 61 76 90 108 130	35 38 41 49 65 62
	d	DN	Inch	for outlet flange adaptor PP-V black	for outlet flange adaptor PP with steel ring			
Backing flange metric for socket fusion systems Connecting dimension DIN 2501 PN 10	40 50 63 75 90 110	32 40 50 65 80 100	1 ¹ / ₄ 1 ¹ / ₂ 2 2 ¹ / ₂ 3 4	727 700 409 727 700 410 727 700 411 727 700 412 727 700 413 727 700 414	727 700 209 727 700 210 727 700 211 727 700 212 727 700 213 727 700 214			

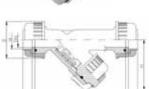
Component Parts for Flange Assembly, Type 369 PP

Butt Fusion System PP/PE Inlet side

	IIILE	Siuc				
	d	DN	Inch	PP Code	PE Code	
PP/PE Flange Adapter metric SDR 11	40 50 63 75 90	32 40 50 65 80	1 ¹ / ₄ 1 ¹ / ₂ 2 2 ¹ / ₂ 3	727 798 509 727 798 510 727 798 511 727 798 512 727 798 513	753 798 609 753 798 610 753 798 611 753 798 612 753 798 613	
	110 140 160 225 280 315	100 125 150 200 250 300	4 5 6 8 10 12	727 798 514 727 798 516 727 798 517 727 798 520 727 798 572 727 798 573	753 798 614 753 798 616 753 798 617 753 798 620 753 798 672 753 798 673	
	d	DN	Inch	PP Code	PE Code	
PP/PE Flange Adapter metric SDR 17,6	40 50 63 75 90	32 40 50 65 80	1 ¹ / ₄ 1 ¹ / ₂ 2 2 ¹ / ₂ 3	 727 798 535 727 798 536 727 798 412 727 798 413	 753 798 535 753 798 536 753 798 512 753 798 513	
	110 140 160 225 280 315	100 125 150 200 250 300	4 5 6 8 10 12	727 798 414 727 798 541 727 798 542 727 798 545 727 798 547 727 798 548	753 798 514 753 798 541 753 798 542 753 798 545 753 798 547 753 798 548	
				727 770 010	736 776 616	
	d	DN	Inch	for Flange Adapter PP-V black	for Flange Adapter PP with steel ring	
Backing flange metric for butt fusion systems Connecting dimension DIN 2501 PN 10	40 50 63 75 90	32 40 50 65 80	1 ¹ / ₄ 1 ¹ / ₂ 2 2 ¹ / ₂ 3	727 700 409 727 700 410 727 700 411 727 700 412 727 700 513	727 700 209 727 700 210 727 700 211 727 700 212 727 700 313	
	110 140 160 225 280 315	100 125 150 200 250 300	4 5 6 8 10 12	727 700 514 727 700 516 727 700 517 727 700 520 727 700 522 727 700 523	727 700 314 727 700 316 727 700 317 727 700 320 727 700 322 727 700 323	

Strainers 305





PROGEF Standard Line strainer type 305 With fusion sockets metric

Model:

- · Material: PP-H
- · For easy installation and removal
- · Protects valves, pumps, etc. from becoming soiled
- Screen perforation 0.5 mm
- Overall length according to EN 558
- · Easy dismantling for cleaning the screens

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	H [mm]	Z [mm]
20	15	10	35	167 305 000	167 305 049	0.214	52	168	130	75	140
25	20	10	65	167 305 050	167 305 099	0.257	62	192	150	80	160
32	25	10	90	167 305 100	167 305 149	0.327	68	206	160	90	170
40	32	10	155	167 305 150	167 305 199	0.586	85	230	180	110	190
50	40	10	225	167 305 200	167 305 249	0.748	85	256	200	125	210
63	50	10	370	167 305 250	167 305 299	1.185	102	294	230	150	240





PROGEF Standard Line strainer type 305 With butt fusion spigots IR-Plus SDR11 metric

- Material: PP-H
- For easy installation and removal
- · Protects valves, pumps, etc. from becoming soiled
- Screen perforation 0.5 mm
- Overall length according to EN 558
- · Easy dismantling for cleaning the screens

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	H [mm]	e [mm]
20	15	10	35	167 305 300	167 305 349	0.219	52	238	130	75	1.9
25	20	10	65	167 305 350	167 305 399	0.268	62	264	150	80	2.3
32	25	10	90	167 305 400	167 305 449	0.354	68	280	160	90	3.0
40	32	10	155	167 305 450	167 305 499	0.660	85	306	180	110	3.7
50	40	10	225	167 305 500	167 305 549	0.816	85	332	200	125	4.6
63	50	10	370	167 305 550	167 305 599	1.295	102	368	230	150	5.8

Copiable

Configurator GF ball valve type 546 PROGEF Standard

C06 C07 C08 C09 C10 C11 C12 C13 C14	d 16 DN 10 3/8" d 20 DN 15 1/2" d 25 DN 20 3/4" d 32 DN 25 1" d 40 DN 32 1 1/4 d 50 DN 40 1 1/2 d 63 DN 50 2" DN 65 2 1/2" DN 80 3" DN 100 4" DN 150 6"	 dard, PTFE ba	ıll seal			sions i eleme nities the ba have c (Der m Kugel	n our ran nts also p for use. Ir Il valve yo reated a s naximal zo nahns ist	ge of proo provide yo n order fo ou need fo selection ulässige E	tion of different verducts. New system u with new opporturus to supply exactly ryou application, we menu for you. Betriebsdruck des
	D03 silico	E02 FPM:	ball seal (onl ball seal for A seals seals I/KALREZ®) s Threaded in F01 witho	ly with specifi metric (only v seals nserts out threaded in	c connecting with specific o	parts)	arts)		
			F02 with	G32 PP-H G33 PP-H G35 PP-H with t is red G37 PP-H G43 PE-11 G44 PE-11 G43 Fixed G77 Backi G78 Backi G78 Backi G78 Backi G78 Backi G78 Backi G79 Backi G79 Backi G71 Backi G71 Backi G71 Backi G72 Backi G73 Backi G73 Backi G73 Backi G74 PE-11 G42 PE-11 G41 PVC-I G13 PVC-I G14 PVC-I G15 PVC-I G15 PVC-I G16 PVC-I		n spigot met cket Rp reinf cket NPT rei spigot SDR 1 spigot SDR 1 the maximu spigot long S serrated me-steel metric ask ket metric aspigot SDR n spigot long serrated me-steel inch A JIS with cor-GF JIS ank ket metric aspigot SDR n spigot SDR n spigot SDR spigot SDR spigot SDR spigot SDR n spigot SDR N s	orced niforced I metric IR-F 7.6 metric m nominal p DR11 metric SDR11 metric SDR17.6 me tric NSI necting part I1 metric I7.6 metric SDR11 metric SDR11 metric SDR11 metric	ressure ic ttric s	
						102 Emp 103 Modu 104 Modu 105 Modu 106 Modu	ty module ale with 2 end ale with 2 end ale with 2 ind ale with 2 ind ale with 2 ind ale with 2 ind ale with 3 ind ale with 3 ind ale with 5 ind K01 Stan K02 Stan	d switches Ad switches Ad switches Ad luctive switch luctive switch luctive switch dard lever redard lever bli-functional Mounting L01 with	u nes Namur nes PNP nes NPN d ack lever red
A01 B05 C	D	E	F	G	G	I	K	L	

Copiable **GF** ball valve type 546 with electric Actuator

It's so easy to actuate the type 546:

With the configurator, you have a choice of new electric actuators, the EA11 for standard applications and the EA21 with modular design and accessories, for practically and type of operation.

We supply what you put together.



Electric Actuator EA11

EA11 24 V T02 EA11 100-230 V

Accessories EA11

U01 No accessories

2 limit switches Ag, Ni

U03 Heating element

Fail-safe return

U05 2 limit switches Ag, Ni normally open

Electric Actuator EA21/31

T03 EA21/31 24 V T04 EA21/31 100-230 V

Accessories EA21

W01 No accessories

W02 Heating element

W03 Cycle time module WN4

Cycle time monitoring W05

Cycles monitoring
Motor current monitoring W06

W07 2 limit switches Ag, Ni

W08 2 limit switches Gold

2 limit switches NPN

W10 2 limit switches PNP W11

Positioner W12 Electric position indicator

W14 Fail-safe return unit

W15 Switch intermediate position

2 limit switches Ag, $\dot{\text{Ni}}$ normally open with connector W27

W31 Positioner PE25 with galv. separation

Т	U	Т	W	W	W	W	W	W

Ball Valves Electric

PROGEF Standard Ball valve type 107 100-230V With manual emergency override With fusion sockets metric



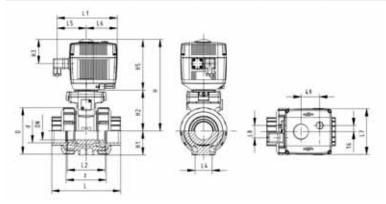
- · Material: PP-H
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	70	199 107 502	199 107 512	2.100	
20	15	10	185	199 107 503	199 107 513	2.100	
25	20	10	350	199 107 504	199 107 514	2.200	
32	25	10	700	199 107 505	199 107 515	2.300	
40	32	10	1000	199 107 506	199 107 516	2.600	
50	40	10	1600	199 107 507	199 107 517	3.000	
63	50	10	3100	199 107 508	199 107 518	3.800	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	93	161	56	25	77	83	122	33	67
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	66
25	58	209	30	73	64	137	108	161	65	25	77	83	122	33	77
32	68	209	36	73	64	137	118	161	71	25	77	83	122	33	83
40	84	220	44	84	64	137	137	161	85	45	77	83	122	33	99
50	97	220	51	84	64	137	147	161	89	45	77	83	122	33	105
63	124	243	64	106	64	137	168	161	101	45	77	83	122	33	117







DN10/15 - 50

PROGEF Standard Ball valve type 107 100-230V With manual emergency override With socket fusion spigots metric

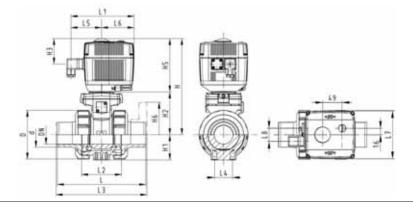
Model:

- Material: PP-H
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
 Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	70	199 107 522	199 107 532	2.100
20	15	10	185	199 107 523	199 107 533	2.100
25	20	10	350	199 107 524	199 107 534	2.200
32	25	10	700	199 107 525	199 107 535	2.300
40	32	10	1000	199 107 526	199 107 536	2.600
50	40	10	1600	199 107 527	199 107 537	2.629
63	50	10	3100	199 107 528	199 107 538	3.800

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	110	161	56	130	25	77	83	122	33
20	50	200	27	64	64	137	120	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	139	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	150	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	170	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	190	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	220	161	101	230	45	77	83	122	33





DN10/15 - 50

PROGEF Standard Ball valve type 107 100-230V With manual emergency override With butt fusion spigots IR-Plus SDR11 metric

Model:

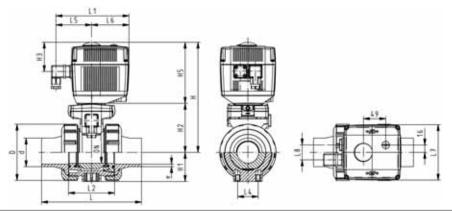
- Material: PP-H
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
 Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	185	800 046 107	800 046 110	0.000
25	20	10	350	800 046 108	800 046 112	0.000
32	25	10	700	800 027 956	800 046 113	0.000
40	32	10	1000	800 046 109	800 046 114	0.000
50	40	10	1600	800 021 699	800 046 115	0.000
63	50	10	3100	800 027 113	800 046 116	0.000

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
20	50	200	27	64	64	137	130	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	143	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	150	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	171	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	191	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	220	161	101	230	45	77	83	122	33

d [mm]	e [mm]
20	1.9 2.3
25 32	3.0
40	3.7
50	4.6
63	5.8





PROGEF Standard Ball valve type 107 100-230V With manual emergency override With fixed flanges PP-H serrated metric

Model:

- Material: PP-H
- · Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

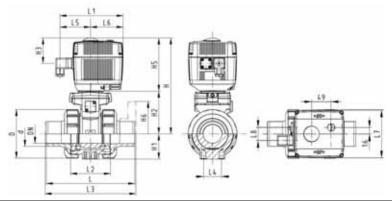
Option

• Individual configuration of the valve (see diagram)

					•	,		
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	1/2	10	185	199 107 583	199 107 593	2.300	
25	20	3/4	10	350	199 107 584	199 107 594	2.500	
32	25	1	10	700	199 107 585	199 107 595	2.700	
40	32	1 1/4	10	1000	199 107 586	199 107 596	3.200	
50	40	1 ½	10	1600	199 107 587	199 107 597	3.700	
63	50	2	10	3100	199 107 588	199 107 598	4.800	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	200	27	64	64	137	48	120	161	56	130	25	77	83	122
25	58	209	30	73	64	137	53	140	161	65	150	25	77	83	122
32	68	209	36	73	64	137	58	150	161	71	160	25	77	83	122
40	84	220	44	84	64	137	70	170	161	85	180	45	77	83	122
50	97	220	51	84	64	137	75	190	161	89	200	45	77	83	122
63	124	243	64	106	64	137	165	220	161	101	230	45	77	83	122

d [mm]	L8 [mm]
20	33
25 32	33 33
40	33
50 63	33 33





DN10/15 - 50

PROGEF Standard Ball valve type 107 24V With manual emergency override With fusion sockets metric

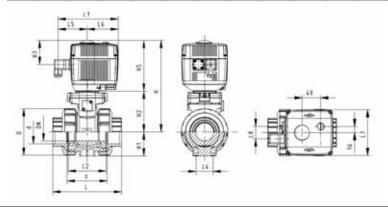
Model:

- Material: PP-H
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
 Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	70	199 107 542	199 107 552	2.100
20	15	10	185	199 107 543	199 107 553	2.100
25	20	10	350	199 107 544	199 107 554	2.200
32	25	10	700	199 107 545	199 107 555	2.241
40	32	10	1000	199 107 546	199 107 556	2.600
50	40	10	1600	199 107 547	199 107 557	3.000
63	50	10	3100	199 107 548	199 107 558	3.800

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	93	161	56	25	77	83	122	33	67
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	66
25	58	209	30	73	64	137	108	161	65	25	77	83	122	33	77
32	68	209	36	73	64	137	118	161	71	25	77	83	122	33	83
40	84	220	44	84	64	137	137	161	85	45	77	83	122	33	99
50	97	220	51	84	64	137	147	161	89	45	77	83	122	33	105
63	124	243	64	106	64	137	168	161	101	45	77	83	122	33	117





PROGEF Standard Ball valve type 107 24V With manual emergency override With socket fusion spigots metric

Model:

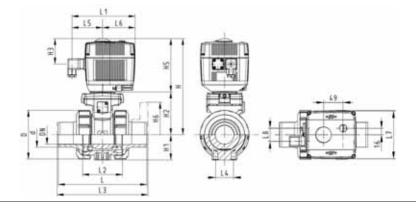
- Material: PP-H
- Built on with electric actuator EA11

- Voltage 24 V AC/DC
 Control range 90°<)
 Control time 5 s/90°
- For easy installation and removal
- · Integrated stainless steel mounting inserts

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	70	199 107 562	199 107 572	2.100
20	15	10	185	199 107 563	199 107 573	2.096
25	20	10	350	199 107 564	199 107 574	2.200
32	25	10	700	199 107 565	199 107 575	2.300
40	32	10	1000	199 107 566	199 107 576	2.600
50	40	10	1600	199 107 567	199 107 577	3.000
63	50	10	3100	199 107 568	199 107 578	3.800

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	110	161	56	130	25	77	83	122	33
20	50	200	27	64	64	137	120	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	139	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	156	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	170	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	190	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	220	161	101	230	45	77	83	122	33





DN10/15 - 50

PROGEF Standard Ball valve type 107 24V With manual emergency override With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Built on with electric actuator EA11

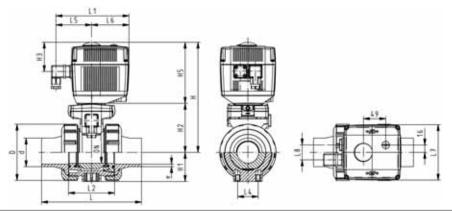
- Voltage 24 V AC/DC
 Control range 90°<)
 Control time 5 s/90°
- For easy installation and removal
- Integrated stainless steel mounting inserts

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	185	800 015 073	800 046 119	0.000
25	20	10	350	800 046 117	800 046 120	0.000
32	25	10	700	800 046 118	800 046 121	0.000
40	32	10	1000	800 021 702	800 046 122	0.000
50	40	10	1600	800 021 700	800 046 123	3.000
63	50	10	3100	800 021 701	800 046 124	3.910

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
20	50	200	27	64	64	137	130	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	143	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	150	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	171	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	191	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	220	161	101	230	45	77	83	122	33

d [mm]	e [mm]
20	1.9 2.3
25 32	3.0
40	3.7
50	4.6
63	5.8





PROGEF Standard Ball valve type 107 24V With manual emergency override With fixed flanges PP-H serrated metric

Model:

- Material: PP-H
- · Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

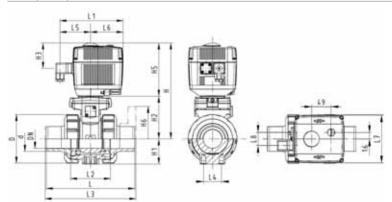
Option

• Individual configuration of the valve (see diagram)

					•	· ,		
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	1/2	10	185	199 107 783	199 107 793	2.300	
25	20	3/4	10	350	199 107 784	199 107 794	2.500	
32	25	1	10	700	199 107 785	199 107 795	2.700	
40	32	1 1/4	10	1000	199 107 786	199 107 796	3.200	
50	40	1 ½	10	1600	199 107 787	199 107 797	3.700	
63	50	2	10	3100	199 107 788	199 107 798	4.800	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	200	27	64	64	137	48	120	161	56	130	25	77	83	122
25	58	209	30	73	64	137	53	140	161	65	150	25	77	83	122
32	68	209	36	73	64	137	58	150	161	71	160	25	77	83	122
40	84	220	44	84	64	137	70	170	161	85	180	45	77	83	122
50	97	220	51	84	64	137	75	190	161	89	200	45	77	83	122
63	124	243	64	106	64	137	165	220	161	101	230	45	77	83	122

d [mm]	L8 [mm]								
20 25 32 40 50 63	33 33 33 33 33								





DN10/15 - 50

With manual emergency override With fusion sockets metric Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts

Ball valve type 131 100-230V

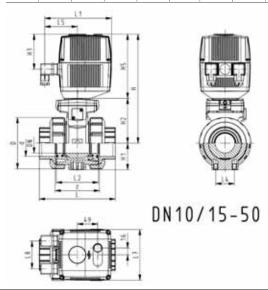
Voltage 100-230 V, 50-60 Hz

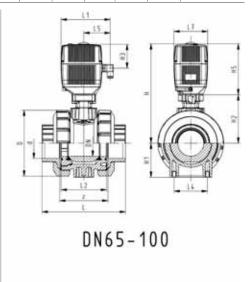
PROGEF Standard

- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	70	199 131 002	199 131 012	2.100	
20	15	10	185	199 131 003	199 131 013	2.100	
25	20	10	350	199 131 004	199 131 014	2.200	
32	25	10	700	199 131 005	199 131 015	2.589	
40	32	10	1000	199 131 006	199 131 016	2.600	
50	40	10	1600	199 131 007	199 131 017	3.000	
63	50	10	3100	199 131 008	199 131 018	3.482	
75	65	10	5000	199 131 009	199 131 019	6.200	
90	80	10	7000	199 131 010	199 131 020	8.000	
110	100	10	11000	199 131 011	199 131 021	11.200	

d	D	Н	H1	H2	Н3	H5	L	L1	L2	L4	L5	L7	z
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	50	231	27	64	94	167	93	180	56	25	97	122	67
20	50	231	27	64	94	167	95	180	56	25	97	122	66
25	58	240	30	73	94	167	108	180	65	25	97	122	77
32	68	240	36	73	94	167	118	180	71	25	97	122	83
40	84	251	44	84	94	167	137	180	85	45	97	122	99
50	97	251	51	84	94	167	147	180	89	45	97	122	105
63	124	273	64	106	94	167	168	180	101	45	97	122	117
75	166	346	85	156	94	190	233	180	136	70	98	122	167
90	200	358	105	168	94	190	254	180	141	70	98	122	180
110	238	365	123	175	94	190	301	180	164	120	98	122	215









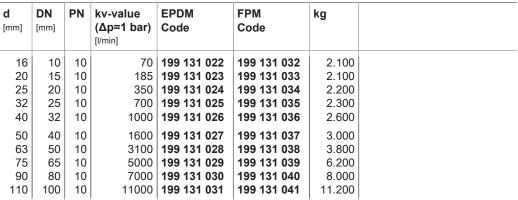
DN10/15 - 50

PROGEF Standard Ball valve type 131 100-230V With manual emergency override With socket fusion spigots metric

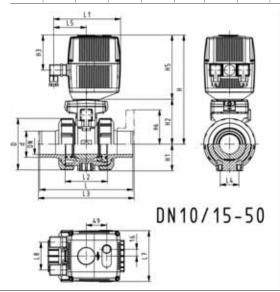
Model:

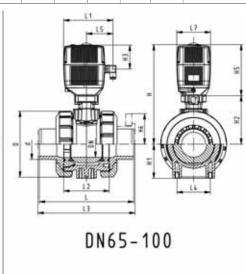
- · Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

Option:



d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]
16	50	231	27	64	94	167	110	180	56	130	25	97	122
20	50	231	27	64	94	167	120	180	56	130	25	97	122
25	58	240	30	73	94	167	139	180	65	150	25	97	122
32	68	240	36	73	94	167	150	180	71	160	25	97	122
40	84	251	44	84	94	167	170	180	85	180	45	97	122
50	97	251	51	84	94	167	190	180	89	200	45	97	122
63	124	273	64	106	94	167	220	180	101	230	45	97	122
75	166	346	85	156	94	190	280	180	136	290	70	98	122
90	200	358	105	168	94	190	296	180	141	310	70	98	122
110	238	365	123	175	94	190	336	180	164	350	120	98	122









PROGEF Standard Ball valve type 131 100-230V With manual emergency override With fixed flanges PP-H serrated metric

Model:

- · Material: PP-H
- · For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Built on with electric actuator EA21
- Control time 5 s/90°<)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

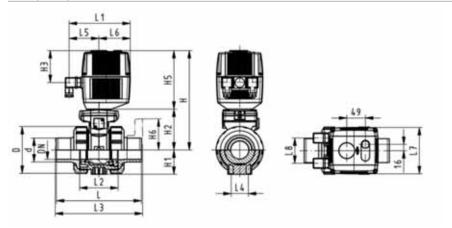
Option

• Individual configuration of the valve (see diagram)

						· · · · · · · · · · · · · · · · · · ·		
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	1/2	10	185	199 131 083	199 131 093	2.300	
25	20	3/4	10	350	199 131 084	199 131 094	2.500	
32	25	1	10	700	199 131 085	199 131 095	2.700	
40	32	1 1/4	10	1000	199 131 086	199 131 096	3.200	
50	40	1 ½	10	1600	199 131 087	199 131 097	3.700	
63	50	2	10	3100	199 131 088	199 131 098	4.800	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	27	64	94	167	48	120	180	56	130	25	97	83	122
25	58	240	30	73	94	167	53	140	180	65	150	25	97	83	122
32	68	240	36	73	94	167	58	150	180	71	160	25	97	83	122
40	84	251	44	84	94	167	70	170	180	85	180	45	97	83	122
50	97	251	51	84	94	167	75	190	180	89	200	45	97	83	122
63	124	273	64	106	94	167	165	220	180	101	230	45	97	83	122

d [mm]	L8 [mm]							
20 25	66 66							
32	66							
40	66							
50	66							
63	66							





PROGEF Standard Ball valve type 131 100-230V With manual emergency override With backing flanges PP-st metric

Model:

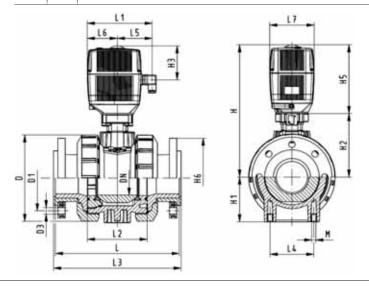
- Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
75	65	2 ½	10	5000	199 131 129	199 131 139	10.500
90	80	3	10	7000	199 131 130	199 131 140	13.200
110	100	4	10	11000	199 131 131	199 131 141	18.400

d	D	Н	H1	H2	Н3	H5	Н6	L	L1	L2	L3	L4	L5	L6	L7
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
75	166	346	85	156	94	190	93	280	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	296	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	336	180	164	350	120	98	83	122

d [mm]	L8 [mm]	
75	66	
90	66	
110	66	





DN10/15 - 50

PROGEF Standard Ball valve type 131 100-230V With manual emergency override With butt fusion spigots IR-Plus SDR11 metric

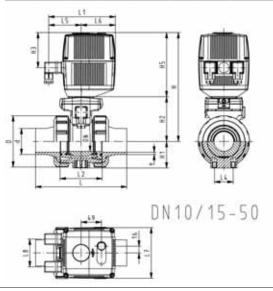
Model:

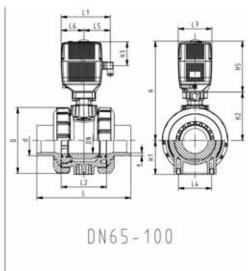
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

Option

d [mm]	DN [mm]	PN	kv-valu (∆p=1 [l/min]		EPDM Code		FPN Cod	-	k	κg					
75	65	10	į	5000	199 13	31 329	199	131 33	39	6.200					
90	80	10	7	7000	199 13	31 330	199	131 34	10	8.000					
110	100	10	11	1000	199 13	31 331	199	131 34	11	11.200					
d	D	Н	H1	H2	НЗ	Н5		L1	L2	L3	L4	L5	L7	е	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	e [mm]
75	166	346	85	156	94	190	266	180	136	290	70	98	122	8.2
90	200	358	105	168	94	190	264	180	141	310	70	98	122	9.9
110	238	365	123	175	94	190	301	180	164	350	120	98	122	12.0









DN10/15 - 50

PROGEF Standard Ball valve type 131 100-230V With manual emergency override With butt fusion spigots SDR17.6 metric

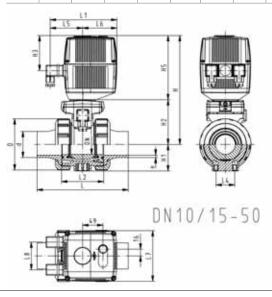
Model:

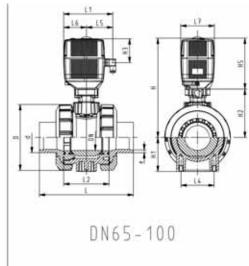
- Material: PP-H
- For easy installation and removal
- · Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

Option

d mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg			
75	65	10	5000	199 131 729	199 131 739	6.200			
90	80	10	7000	199 131 730	199 131 740	8.000			
110	100	10	11000	199 131 731	199 131 741	11.200			
								_	_

d	D	Н	H1	H2	НЗ	H5	L	L1	L2	L3	L4	L5	L7	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
75	166	346	85	156	94	190	266	180	136	290	70	98	122	4.6
90	200	358	105	168	94	190	264	180	141	310	70	98	122	5.5
110	238	365	123	175	94	190	301	180	164	350	120	98	122	6.7









DN10/15 - 50

PROGEF Standard Ball valve type 131 24V With manual emergency override With fusion sockets metric

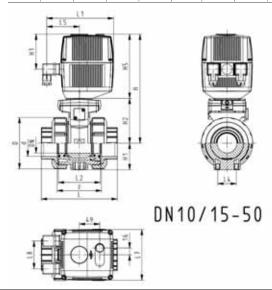
Model:

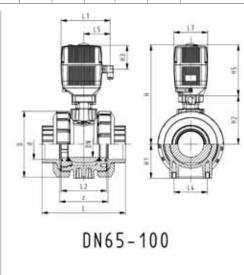
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

Option:

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	70	199 131 042	199 131 052	2.100	
20	15	10	185	199 131 043	199 131 053	2.100	
25	20	10	350	199 131 044	199 131 054	2.200	
32	25	10	700	199 131 045	199 131 055	2.300	
40	32	10	1000	199 131 046	199 131 056	2.600	
50	40	10	1600	199 131 047	199 131 057	3.000	
63	50	10	3100	199 131 048	199 131 058	3.460	
75	65	10	5000	199 131 049	199 131 059	6.200	
90	80	10	7000	199 131 050	199 131 060	8.000	
110	100	10	11000	199 131 051	199 131 061	11.200	

d	D	Н	H1	H2	H3	H5	L	L1	L2	L4	L5	L7	z
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	50	231	27	64	94	167	93	180	56	25	97	122	67
20	50	231	27	64	94	167	95	180	56	25	97	122	66
25	58	240	30	73	94	167	108	180	65	25	97	122	77
32	68	240	36	73	94	167	118	180	71	25	97	122	83
40	84	251	44	84	94	167	137	180	85	45	97	122	99
50	97	251	51	84	94	167	147	180	89	45	97	122	105
63	124	273	64	106	94	167	168	180	101	45	97	122	117
75	166	346	85	156	94	190	233	180	136	70	98	122	167
90	200	358	105	168	94	190	254	180	141	70	98	122	180
110	238	365	123	175	94	190	301	180	164	120	98	122	215









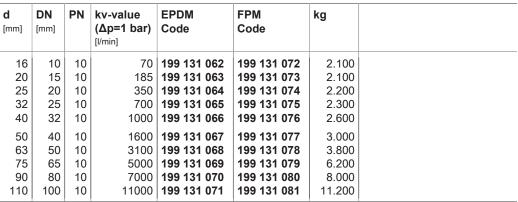
DN10/15 - 50

PROGEF Standard Ball valve type 131 24V With manual emergency override With socket fusion spigots metric

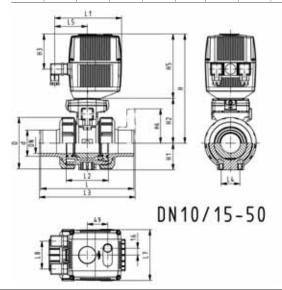
Model:

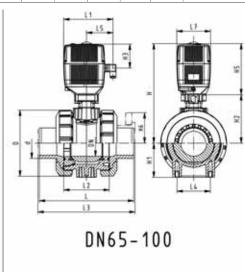
- · Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

Option:



d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]
16	50	231	27	64	94	167	110	180	56	130	25	97	122
20	50	231	27	64	94	167	120	180	56	130	25	97	122
25	58	240	30	73	94	167	139	180	65	150	25	97	122
32	68	240	36	73	94	167	150	180	71	160	25	97	122
40	84	251	44	84	94	167	170	180	85	180	45	97	122
50	97	251	51	84	94	167	190	180	89	200	45	97	122
63	124	273	64	106	94	167	220	180	101	230	45	97	122
75	166	346	85	156	94	190	280	180	136	290	70	98	122
90	200	358	105	168	94	190	296	180	141	310	70	98	122
110	238	365	123	175	94	190	336	180	164	350	120	98	122









PROGEF Standard Ball valve type 131 24V With manual emergency override With fixed flanges PP-H serrated metric

Model:

- · Material: PP-H
- · For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Built on with electric actuator EA21
- Control time 5 s/90°<)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

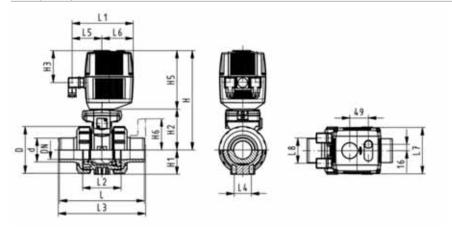
Option

• Individual configuration of the valve (see diagram)

					•	,		
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	1/2	10	185	199 131 103	199 131 113	2.300	
25	20	3/4	10	350	199 131 104	199 131 114	2.500	
32	25	1	10	700	199 131 105	199 131 115	2.700	
40	32	1 1/4	10	1000	199 131 106	199 131 116	3.200	
50	40	1 ½	10	1600	199 131 107	199 131 117	3.700	
63	50	2	10	3100	199 131 108	199 131 118	4.800	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	27	64	94	167	48	120	180	56	130	25	97	83	122
25	58	240	30	73	94	167	53	140	180	65	150	25	97	83	122
32	68	240	36	73	94	167	58	150	180	71	160	25	97	83	122
40	84	251	44	84	94	167	70	170	180	85	180	45	97	83	122
50	97	251	51	84	94	167	75	190	180	89	200	45	97	83	122
63	124	273	64	106	94	167	165	220	180	101	230	45	97	83	122

d [mm]	L8 [mm]							
20 25	66 66							
32	66							
40	66							
50	66							
63	66							





PROGEF Standard Ball valve type 131 24V With manual emergency override With backing flanges PP-st metric

Model:

- Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

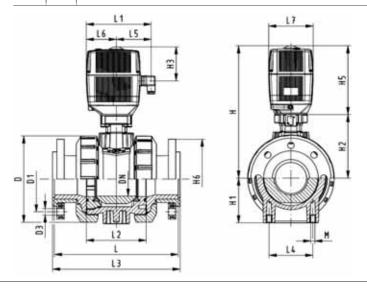
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
75	65	2 ½	10	5000	199 131 149	199 131 159	10.500
90	80	3	10	7000	199 131 150	199 131 160	13.200
110	100	4	10	11000	199 131 151	199 131 161	18.400

d	D	Н	H1	H2	Н3	H5	Н6	L	L1	L2	L3	L4	L5	L6	L7
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
75	166	346	85	156	94	190	93	280	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	296	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	336	180	164	350	120	98	83	122

d [mm]	L8 [mm]
75	66
90	66
110	66





DN10/15 - 50

PROGEF Standard Ball valve type 131 24V With manual emergency override With butt fusion spigots IR-Plus SDR11 metric

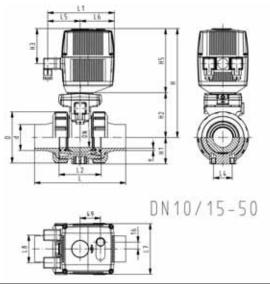
Model:

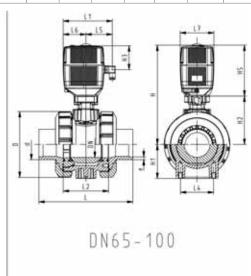
- · Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

Option:

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	185	199 131 363	199 131 373	2.100	
25	20	10	350	199 131 364	199 131 374	2.200	
32	25	10	700	199 131 365	199 131 375	2.300	
40	32	10	1000	199 131 366	199 131 376	2.600	
50	40	10	1600	199 131 367	199 131 377	3.000	
63	50	10	3100	199 131 368	199 131 378	3.800	
75	65	10	5000	199 131 369	199 131 379	6.200	
90	80	10	7000	199 131 370	199 131 380	8.000	
110	100	10	11000	199 131 371	199 131 381	11.200	

d	D	Н	H1	H2	Н3	H5	L	L1	L2	L3	L4	L5	L7	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	50	231	27	64	94	167	130	180	56	130	25	97	122	1.9
25	58	240	30	73	94	167	143	180	65	150	25	97	122	2.3
32	68	240	36	73	94	167	150	180	71	160	25	97	122	3.0
40	84	251	44	84	94	167	171	180	85	180	45	97	122	3.7
50	97	251	51	84	94	167	191	180	89	200	45	97	122	4.6
63	124	273	64	106	94	167	220	180	101	230	45	97	122	5.8
75	166	346	85	156	94	190	266	180	136	290	70	98	122	8.2
90	200	358	105	168	94	190	264	180	141	310	70	98	122	9.9
110	238	365	123	175	94	190	301	180	164	350	120	98	122	12.0









DN10/15 - 50

PROGEF Standard Ball valve type 131 24V With manual emergency override With butt fusion spigots SDR17.6 metric

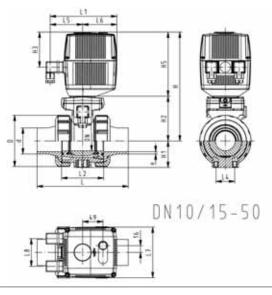
Model:

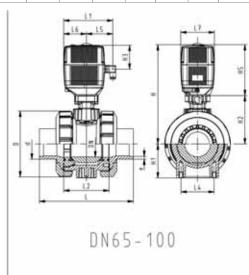
- Material: PP-H
- · For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

Option

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
50	40	10	1600	199 131 767	199 131 777		
63	50	10	3100	199 131 768	199 131 778		
75	65	10	5000	199 131 769	199 131 779	6.200	
90	80	10	7000	199 131 770	199 131 780	8.000	
110	100	10	11000	199 131 771	199 131 781	11.200	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	e [mm]
50	97	251	51	84	94	167	191	180	89	200	45	97	122	2.9
63	124	273	64	106	94	167	220	180	101	230	45	97	122	3.6
75	166	346	85	156	94	190	266	180	136	290	70	98	122	4.6
90	200	358	105	168	94	190	264	180	141	310	70	98	122	5.5
110	238	365	123	175	94	190	301	180	164	350	120	98	122	6.7









PROGEF Standard Ball valve type 131 100-230V With manual emergency override With backing flanges PP-st Inch ANSI

Model:

- · Material: PP-H
- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Integrated stainless steel mounting inserts
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

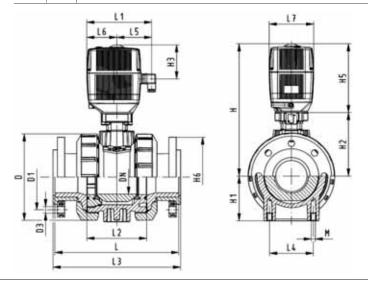
Option

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-val (Δp=1		EPDN Code	-	FPN			kg					
75	65	2 ½	10		5000	199 1	31 529	199	131 5	39	10.50	00				
90	80	3	10		7000	199 1	31 530	199	131 5	540	13.20	00				
110	100	4	10	1	1000	199 1	31 531	199	131 5	541	18.40	00				
Ч	D	н	Н1	H2	Н3	Н5	Н6	ı	11	12	1.3		14	1.5	1.6	17

d	D	Н	H1	H2	Н3	H5	Н6	L	L1	L2	L3	L4	L5	L6	L7
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
75	166	346	85	156	94	190	93	280	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	296	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	336	180	164	350	120	98	83	122

d [mm]	L8 [mm]
75	66
90	66
110	66





DN10/15 - 50

PROGEF Standard Ball valve type 131 100-230V With manual emergency override With threaded sockets reinforced NPT

Model:

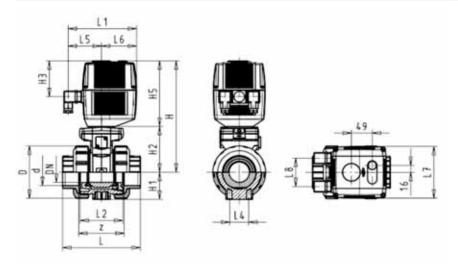
- Material: PP-H
- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Integrated stainless steel mounting inserts
- Built on with electric actuator EA21
- Control time 5 s/90°<)

Option:

• Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3/8	10	10	70	199 131 402	199 131 412	2.100	
1/2	15	10	185	199 131 403	199 131 413	2.100	
3/4	20	10	350	199 131 404	199 131 414	2.200	
1	25	10	700	199 131 405	199 131 415	2.300	
1 1/4	32	10	1000	199 131 406	199 131 416	2.600	
1 1/2	40	10	1600	199 131 407	199 131 417	3.000	
2	50	10	3100	199 131 408	199 131 418	4.285	

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6	L7 [mm]	Z [mm]
3/8	50	231	27	64	94	167	96	180	56	25	97	83	122	71
1/2	50	231	27	_	94	167	99	180	56	25	97	83	122	64
3/4	58	240	30	73	94	167	111	180	65	25	97	83	122	76
1	68	240	36	73	94	167	127	180	71	25	97	83	122	83
1 1/4	84	251	44	84	94	167	146	180	85	45	97	83	122	100
1 1/2	97	251	51	84	94	167	157	180	89	45	97	83	122	111
2	124	273	64	106	94	167	183	180	101	45	97	83	122	134





PROGEF Standard Ball valve type 131 24V With manual emergency override With backing flanges PP-st Inch ANSI

Model:

- Material: PP-H
- Voltage 24 V AC/DC
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

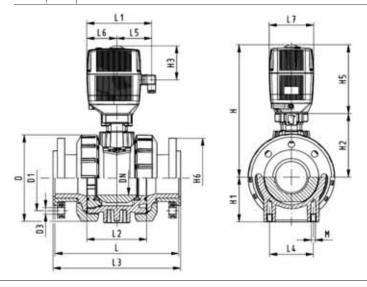
Option

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-val (Δp=1		EPDN Code	-	FPN			kg					
75	65	2 ½	10		5000	199 1	31 549	199	131 5	559	10.5	00				
90	80	3	10		7000	199 1	31 550	199	131 5	60	13.2	00				
110	100	4	10	1	1000	199 1	31 551	199	131 5	61	18.4	00				
Ч	D	н	Н1	H2	Н3	Н5	Н6	1	11	12	13		I 4	1.5	1.6	17

d	D	Н	H1	H2	Н3	H5	Н6	L	L1	L2	L3	L4	L5	L6	L7
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
75	166	346	85	156	94	190	93	280	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	296	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	336	180	164	350	120	98	83	122

d [mm]	L8 [mm]
75	66
90	66
110	66





DN10/15 - 50

PROGEF Standard Ball valve type 131 24V With manual emergency override With threaded sockets verstärkt NPT

Model:

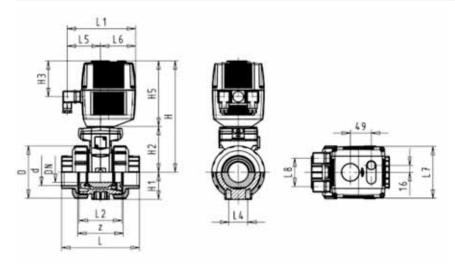
- Material: PP-H
- Voltage 24 V AC/DC
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Built on with electric actuator EA21
- Control time 5 s/90°<)

Option:

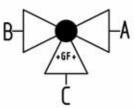
• Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3/8	10	10	70	199 131 422	199 131 432	2.100
1/2	15	10	185	199 131 423	199 131 433	2.100
3/4	20	10	350	199 131 424	199 131 434	2.200
1	25	10	700	199 131 425	199 131 435	2.300
1 1/4	32	10	1000	199 131 426	199 131 436	2.600
1 ½	40	10	1600	199 131 427	199 131 437	3.000
2	50	10	3100	199 131 428	199 131 438	3.800

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	Z [mm]
3/8	50	231	27	64	94	167	96	180	56	25	97	83	122	71
1/2	50	231	27	64	94	167	99	180	56	25	97	83	122	64
3/4	58	240	30	73	94	167	111	180	65	25	97	83	122	76
1	68	240	36	73	94	167	127	180	71	25	97	83	122	83
1 1/4	84	251	44	84	94	167	146	180	85	45	97	83	122	100
1 1/2	97	251	51	84	94	167	157	180	89	45	97	83	122	111
2	124	273	64	106	94	167	183	180	101	45	97	83	122	134









PROGEF Standard 3-Way ball valve type 186 Horizontal/L-port 100-230V With manual emergency override With fusion sockets metric

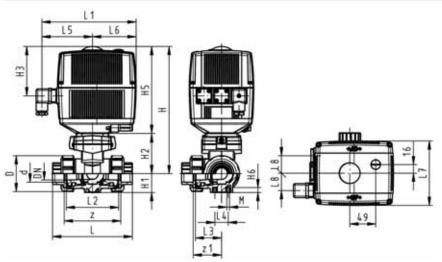
Model:

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

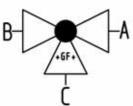
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	199 186 022	199 186 032	2.038
20	15	10	75	199 186 023	199 186 033	2.042
25	20	10	150	199 186 024	199 186 034	2.132
32	25	10	280	199 186 025	199 186 035	2.257
40	32	10	480	199 186 026	199 186 036	2.548
50	40	10	620	199 186 027	199 186 037	2.844
63	50	10	1230	199 186 028	199 186 038	3.751

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d	L8	М	Z	z1
[mm]	[mm]		[mm]	[mm]
16	33	6	82	41
20	33	6	82	41
25	33	6	97	49
32	33	6	110	55
40	33	8	132	66
50	33	8	151	76
63	33	8	188	94









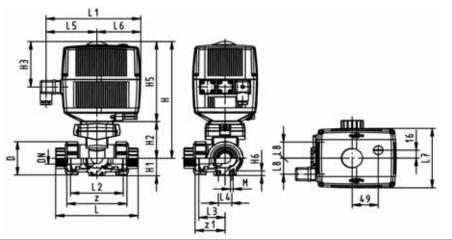
PROGEF Standard 3-Way ball valve type 186 Horizontal/L-port 100-230V With manual emergency override With threaded sockets reinforced Rp

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

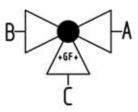
	•			•		
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3/8	10	10	50	199 186 122	199 186 132	2.038
1/2	15	10	75	199 186 123	199 186 133	2.042
3/4	20	10	150	199 186 124	199 186 134	2.132
1	25	10	280	199 186 125	199 186 135	2.257
1 1/4	32	10	480	199 186 126	199 186 136	2.548
1 1/2	40	10	620	199 186 127	199 186 137	2.844
2	50	10	1230	199 186 128	199 186 138	3.751

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122	
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122	
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122	
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122	
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122	
1 ½	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122	
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122	

Rp	L8	М	z	z1
[inch]	[mm]		[mm]	[mm]
3/8	33	6	86	43
1/2	33	6	84	42
3/4	33	6	99	50
1	33	6	112	56
1 1/4	33	8	132	66
1 1/2	33	8	153	77
2	33	8	196	98









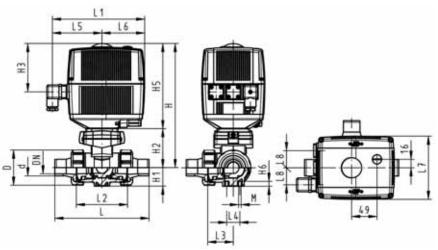
PROGEF Standard 3-Way ball valve type 186 Horizontal/L-port 100-230V With manual emergency override With socket fusion spigots metric

- · Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

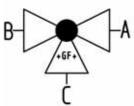
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	199 186 002	199 186 012	2.042
20	15	10	75	199 186 003	199 186 013	2.048
25	20	10	150	199 186 004	199 186 014	2.142
32	25	10	280	199 186 005	199 186 015	2.272
40	32	10	480	199 186 006	199 186 016	2.562
50	40	10	620	199 186 007	199 186 017	2.885
63	50	10	1230	199 186 008	199 186 018	3.833

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d	L8	М
[mm]	[mm]	
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8









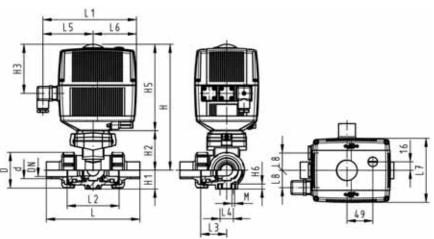
PROGEF Standard 3-Way ball valve type 186 Horizontal/L-port 100-230V With manual emergency override With butt fusion spigots IR-Plus SDR11 metric

- Material: PP-H
- · Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- · Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- · For easy installation and removal
- · Integrated stainless steel mounting inserts

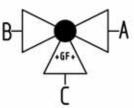
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	75	199 186 083	199 186 093	2.048
25	20	10	150	199 186 084	199 186 094	2.142
32	25	10	280	199 186 085	199 186 095	2.272
40	32	10	480	199 186 086	199 186 096	2.562
50	40	10	620	199 186 087	199 186 097	2.885
63	50	10	1230	199 186 088	199 186 098	3.833

d	D	Н	H1	H2	Н3	H5	Н6	L	L1	L2	L3	L4	L5	L6	L7	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122	
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122	
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122	
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122	
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122	
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122	

		Т
d	L8	M
[mm]	[mm]	
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8









PROGEF Standard 3-Way ball valve type 186 Horizontal/L-port 24V With manual emergency override With fusion sockets metric

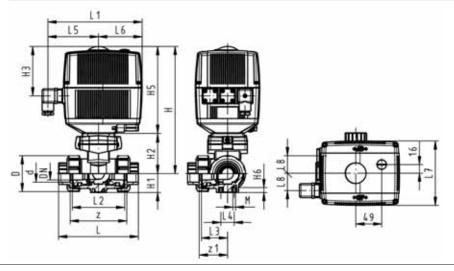
Model:

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- · Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

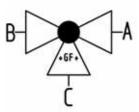
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	199 186 182	199 186 192	2.038
20	15	10	75	199 186 183	199 186 193	2.042
25	20	10	150	199 186 184	199 186 194	2.132
32	25	10	280	199 186 185	199 186 195	2.257
40	32	10	480	199 186 186	199 186 196	2.548
50	40	10	620	199 186 187	199 186 197	2.844
63	50	10	1230	199 186 188	199 186 198	3.751

d [mm]	D [mm]	H [mm]	H1 [mm]	H2	H3	H5 [mm]	H6	L [mm]	L1 [mm]	L2 [mm]	L3	L4 [mm]	L5 [mm]	L6	L7 [mm]
									- 1						
16 20	50 50	231 231	28 28	64 64	94	167 167	8	110 112	180 180	72 72	36 36	25 25	97 97	83 83	122 122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M	Z [mm]	z1 [mm]
16	33	6	82	41
20	33		82	41
25	33	1	97	49
32 40	33 33	1	110 132	55 66
50	33	1	151	
63	33	8	188	94









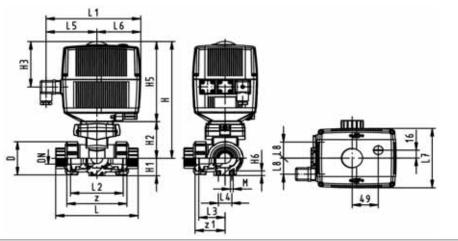
PROGEF Standard 3-Way ball valve type 186 Horizontal/L-port 24V With manual emergency override With threaded sockets reinforced Rp

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

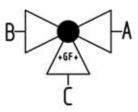
	0						
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3/8	10	10	50	199 186 282	199 186 292	2.038	
1/2	15	10	75	199 186 283	199 186 293	2.042	
3/4	20	10	150	199 186 284	199 186 294	2.132	
1	25	10	280	199 186 285	199 186 295	2.257	
1 1/4	32	10	480	199 186 286	199 186 296	2.548	
1 1/2	40	10	620	199 186 287	199 186 297	2.844	
2	50	10	1230	199 186 288	199 186 298	3.751	

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122	
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122	ĺ
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122	ĺ
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122	
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122	
1 ½	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122	
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122	

Rp	L8	М	z	z1
[inch]	[mm]		[mm]	[mm]
3/8	33	6	86	43
1/2	33	6	84	42
3/4	33	6	99	50
1	33	6	112	56
1 1/4	33	8	132	66
1 1/2	33	8	153	77
2	33	8	196	98









PROGEF Standard 3-Way ball valve type 186 Horizontal/L-port 24V With manual emergency override With socket fusion spigots metric

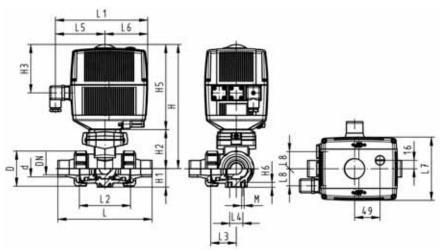
Model:

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- · Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

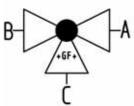
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	199 186 162	199 186 172	2.042
20	15	10	75	199 186 163	199 186 173	2.048
25	20	10	150	199 186 164	199 186 174	2.142
32	25	10	280	199 186 165	199 186 175	2.272
40	32	10	480	199 186 166	199 186 176	2.562
50	40	10	620	199 186 167	199 186 177	2.885
63	50	10	1230	199 186 168	199 186 178	3.833

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8	М
16	33	6
20 25	33 33	6
32	33	6
40	33	8
50	33	8
63	33	8









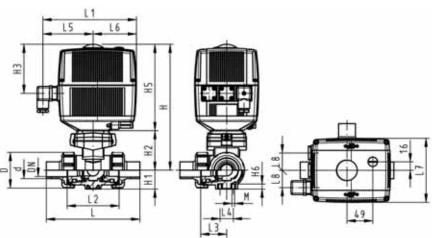
PROGEF Standard 3-Way ball valve type 186 Horizontal/L-port 24V With manual emergency override With butt fusion spigots IR-Plus SDR11 metric

- Material: PP-H
- · Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- · Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

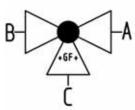
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	75	199 186 243	199 186 253	2.048
25	20	10	150	199 186 244	199 186 254	2.142
32	25	10	280	199 186 245	199 186 255	2.272
40	32	10	480	199 186 246	199 186 256	2.562
50	40	10	620	199 186 247	199 186 257	2.885
63	50	10	1230	199 186 248	199 186 258	3.833

d	D	Н	H1	H2	Н3	H5	Н6	L	L1	L2	L3	L4	L5	L6	L7	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122	
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122	
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122	
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122	
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122	
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122	

d [mm]	L8 [mm]	М
20	33	6
25	33	6
32	33	6
40 50	33	8
63	33	8









PROGEF Standard 3-Way ball valve type 186 Horizontal/T-port 100-230V With manual emergency override With fusion sockets metric

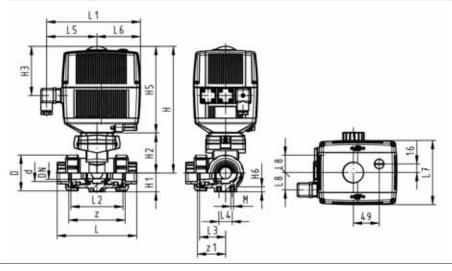
Model:

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

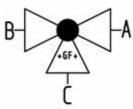
	_					
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	140	199 186 062	199 186 072	2.038
20	15	10	200	199 186 063	199 186 073	2.481
25	20	10	470	199 186 064	199 186 074	2.131
32	25	10	793	199 186 065	199 186 075	2.252
40	32	10	1290	199 186 066	199 186 076	2.541
50	40	10	1910	199 186 067	199 186 077	2.830
63	50	10	3100	199 186 068	199 186 078	3.722

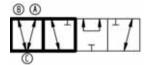
d [mm]	D [mm]	H [mm]	H1 [mm]	H2	H3	H5 [mm]	H6	L [mm]	L1 [mm]	L2 [mm]	L3	L4 [mm]	L5 [mm]	L6	L7 [mm]
									- 1						
16 20	50 50	231 231	28 28	64 64	94	167 167	8	110 112	180 180	72 72	36 36	25 25	97 97	83 83	122 122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M	Z [mm]	z1 [mm]
16	33	6	82	41
20	33		82	41
25	33	1	97	49
32 40	33 33	1	110 132	55 66
50	33	1	151	
63	33	8	188	94









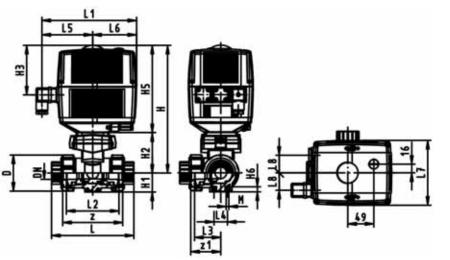
PROGEF Standard 3-Way ball valve type 186 Horizontal/T-port 100-230V With manual emergency override With threaded sockets reinforced Rp

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

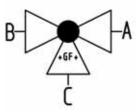
	•			•		
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3/8	10	10	140	199 186 142	199 186 152	2.038
1/2	15	10	200	199 186 143	199 186 153	2.042
3/4	20	10	470	199 186 144	199 186 154	2.131
1	25	10	793	199 186 145	199 186 155	2.252
1 1/4	32	10	1290	199 186 146	199 186 156	2.541
1 1/2	40	10	1910	199 186 147	199 186 157	2.830
2	50	10	3100	199 186 148	199 186 158	3.722

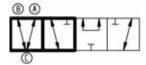
Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 1/2	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

Rp	L8	М	z	z1
[inch]	[mm]		[mm]	[mm]
3/8	33	6	86	43
1/2	33	6	84	42
3/4	33	6	99	50
1	33	6	112	56
1 1/4	33	8	132	66
1 1/2	33	8	153	77
2	33	8	196	98









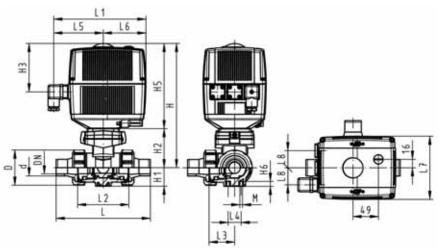
PROGEF Standard 3-Way ball valve type 186 Horizontal/T-port 100-230V With manual emergency override With socket fusion spigots metric

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

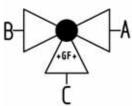
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	140	199 186 042	199 186 052	2.042
20	15	10	200	199 186 043	199 186 053	2.048
25	20	10	470	199 186 044	199 186 054	2.141
32	25	10	793	199 186 045	199 186 055	2.268
40	32	10	1290	199 186 046	199 186 056	2.555
50	40	10	1910	199 186 047	199 186 057	2.872
63	50	10	3100	199 186 048	199 186 058	3.804

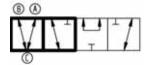
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25		6
32		6
40	33	8
50	33	8
63	33	8









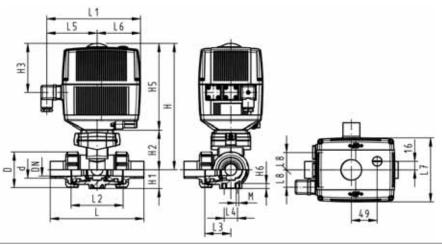
PROGEF Standard 3-Way ball valve type 186 Horizontal/T-port 100-230V With manual emergency override With butt fusion spigots IR-Plus SDR11 metric

- Material: PP-H
- · Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- · Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

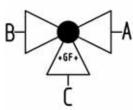
	9. 0. 1						
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	200	199 186 103	199 186 113	2.048	
25	20	10	470	199 186 104	199 186 114	2.141	
32	25	10	793	199 186 105	199 186 115	2.268	
40	32	10	1290	199 186 106	199 186 116	2.555	
50	40	10	1910	199 186 107	199 186 117	2.872	
63	50	10	3100	199 186 108	199 186 118	3.804	

d	D	Н	H1	H2	Н3	H5	Н6	L	L1	L2	L3	L4	L5	L6	L7	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122	
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122	
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122	
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122	
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122	
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122	

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32 40	33	6 8
50	33	8
63	33	8









PROGEF Standard 3-Way ball valve type 186 Horizontal/T-port 24V With manual emergency override With fusion sockets metric

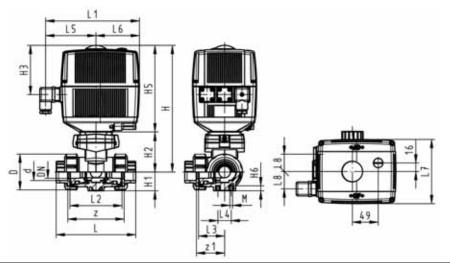
Model:

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- · Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

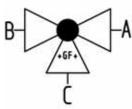
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	140	199 186 222	199 186 232	2.038
20	15	10	200	199 186 223	199 186 233	2.042
25	20	10	470	199 186 224	199 186 234	2.131
32	25	10	793	199 186 225	199 186 235	2.252
40	32	10	1290	199 186 226	199 186 236	2.541
50	40	10	1910	199 186 227	199 186 237	2.830
63	50	10	3100	199 186 228	199 186 238	3.722

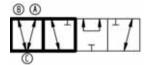
d [mm]	D [mm]	H [mm]	H1 [mm]	H2	H3	H5 [mm]	H6	L [mm]	L1 [mm]	L2 [mm]	L3	L4 [mm]	L5 [mm]	L6	L7 [mm]
									- 1						
16 20	50 50	231 231	28 28	64 64	94	167 167	8	110 112	180 180	72 72	36 36	25 25	97 97	83 83	122 122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d	L8	M	z	z1
[mm]	[mm]		[mm]	[mm]
16	33	6	82	41
20	33	6	82	41
25	33	6	97	49
32	33	6	110	55
40	33	8	132	66
50	33	8	151	76
63	33	8	188	94









PROGEF Standard 3-Way ball valve type 186 Horizontal/T-port 24V With manual emergency override With threaded sockets reinforced Rp

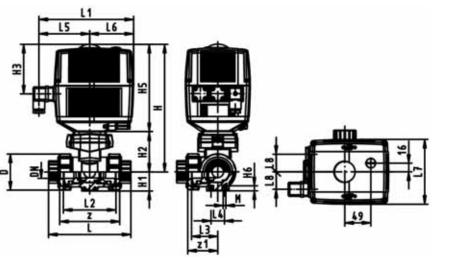
Model:

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

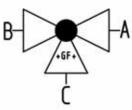
	•			•		
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3/8	10	10	140	199 186 302	199 186 312	2.038
1/2	15	10	200	199 186 303	199 186 313	2.042
3/4	20	10	470	199 186 304	199 186 314	2.131
1	25	10	793	199 186 305	199 186 315	2.252
1 1/4	32	10	1290	199 186 306	199 186 316	2.541
1 1/2	40	10	1910	199 186 307	199 186 317	2.830
2	50	10	3100	199 186 308	199 186 318	3.722
	1		I .	1	1	1

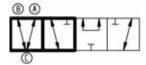
Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 ½	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

Rp	L8	М	z	z1
[inch]	[mm]		[mm]	[mm]
3/8	33	6	86	43
1/2	33	6	84	42
3/4	33	6	99	50
1	33	6	112	56
1 1/4	33	8	132	66
1 1/2	33	8	153	77
2	33	8	196	98









PROGEF Standard 3-Way ball valve type 186 Horizontal/T-port 24V With manual emergency override With socket fusion spigots metric

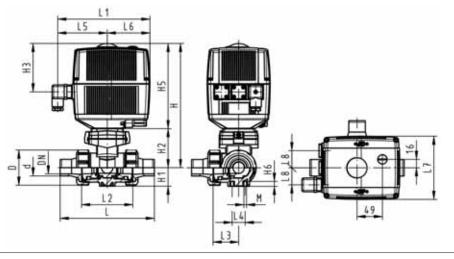
Model:

- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

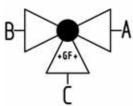
	_					
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	140	199 186 202	199 186 212	2.042
20	15	10	200	199 186 203	199 186 213	2.048
25	20	10	470	199 186 204	199 186 214	2.141
32	25	10	793	199 186 205	199 186 215	2.268
40	32	10	1290	199 186 206	199 186 216	2.555
50	40	10	1910	199 186 207	199 186 217	2.872
63	50	10	3100	199 186 208	199 186 218	3.804

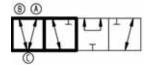
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25		6
32		6
40	33	8
50	33	8
63	33	8









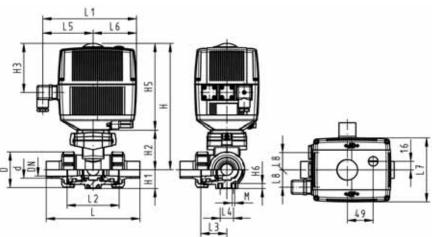
PROGEF Standard 3-Way ball valve type 186 Horizontal/T-port 24V With manual emergency override With butt fusion spigots IR-Plus SDR11 metric

- Material: PP-H
- · Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- · Integrated stainless steel mounting inserts

	0			J		
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	200	199 186 263	199 186 273	2.048
25	20	10	470	199 186 264	199 186 274	2.141
32	25	10	793	199 186 265	199 186 275	2.268
40	32	10	1290	199 186 266	199 186 276	2.555
50	40	10	1910	199 186 267	199 186 277	2.872
63	50	10	3100	199 186 268	199 186 278	3.804

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6	L [mm]	L1 [mm]	L2 [mm]	L3	L4 [mm]	L5	L6	L7 [mm]
	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[mm]	[]	[]	[]
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



Copiable

Configurator GF ball valve type 546 PROGEF Standard

Seats EDI EPDM seats		ʻalve 546 r Ball Valve Material B05 PP-H	Dimension C05 d 16 C06 d 20 C07 d 25 C08 d 32 C09 d 40 C10 d 50 C11 d 63 C12 DN 6 C13 DN 8 C14 DN	DN 10 3/8" DN 15 1/2" DN 20 3/4" DN 25 1" DN 32 1 1/42 DN 50 2" 65 2 1/2" 80 3" 100 4" 150 6" Version D01 Stan D02 oilfre	" dard, PTFE b ee, PTFE ball	seal (only wit	h specific cor		sions i eleme nities the ba have c (Der m Kugell We su	n our ran nts also p for use. Ir Il valve yo reated a s naximal zi nahns ist	ige of prod provide you n order for ou need fo selection i ulässige E	tion of differenducts. New sysumith new opports to supply endeduction and the supply endeduction and t	tem ortu- xactly on, we
					Seals E01 EPD E02 FPM E03 FFPN	M seals seals M/KALREZ®): Threaded in F01 withe F02 with	seals nserts out threaded inserts out threaded inserts connecting G30 PP-H G32 PP-H G33 PP-H G34 PP-H with 1 G36 PP-H with 2 G37 PP-H G43 PE-1 G44 PE-1 G44 PE-1 G44 PE-1 G44 PE-1 G41 PE-1 G41 PC- G13 PVC- G14 PVC- G14 PVC- G15 PVC- G16 PVC- G17 PVC-	nserts Ints Parts Fusion socket Socket fusion Threaded so Butt fusion s Butt fusion s Butt fusion s Hots valve end fuced to PN 6 Butt fusion s OB Butt fusion OB Butt fusion OB Butt fusion OB Butt fusion OB Gutt fusion OF Usion soc OB Butt fusion OB C Cement soc C Cement soc C Cement soc C Threaded s C Threaded s C Threaded s C Threaded s	et metric In spigot met cket Rp reinicket NPT rei cket NPT rei prigot SDR 1 prigot SDR 1 prigot long In spigot long In spigot long In spigot long In spigot long In spigot long In spigot long In spigot long In spigot long In spigot spigot long In spigot spigot In spigot spigot In spigot spigot In spigot spigot In spigot spigot In spigot spigot In spigot spigot In spigot spigot In spigot spigot In spigot spigot In spigot spigot In spi	ric forced force	ee and module d switches Adductive switch ductive s	u es Namur es PNP es NPN d ack ever red plate out mounting plate	
lott right	A01	B05	С	D	E	F	G	G right	I	K	L		

Copiable GF ball valve type 546 with pneumatic actuator

It's so easy to configurate the type 546:

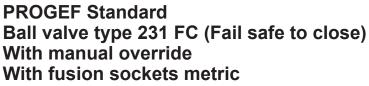
With the configurator, you have a choice of new pneumatic actuators PA11 and PA21 in 2 optimized sizes including a large range of accessories.

We supply what you put together.



Pneumatic actuators PA11/PA21 P01 Fail safe to close PA11/PA21 P02 Fail safe to open PA11/21 P03 Double acting PA11/21 P30 Fail safe to close PA30/90 P31 Fail safe to open PA30/90 P32 Double acting PA30/90 Manual override Q01 without manual override Q02 with manual override Stroke limiter R01 without stroke limiter R02 with stroke limiter

Ball Valves Pneumatic





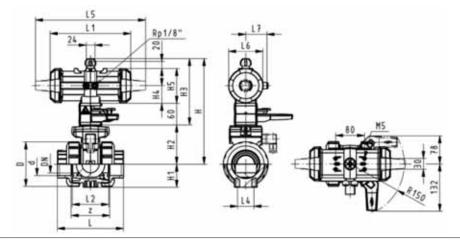
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

• Individual configuration of the valve (see diagram)

			_			
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	70	199 231 002	199 231 012	1.500
20	15	10	185	199 231 003	199 231 013	1.500
25	20	10	350	199 231 004	199 231 014	1.600
32	25	10	700	199 231 005	199 231 015	1.700
40	32	10	1000	199 231 006	199 231 016	2.800
50	40	10	1600	199 231 007	199 231 017	3.100
63	50	10	3100	199 231 008	199 231 018	2.985

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	230	27	62	168	40	77	93	194	56	25	261	76	48	67
20	50	230	27	62	168	40	77	95	194	56	25	261	76	48	66
25	58	239	30	71	168	40	77	108	194	65	25	261	76	48	77
32	68	239	36	71	168	40	77	118	194	71	25	261	76	48	83
40	84	271	44	84	187	51	99	137	224	85	45	305	95	59	99
50	97	271	51	84	187	51	99	147	224	89	45	305	95	59	105
63	124	293	64	106	187	51	99	168	224	101	45	305	95	59	117







DN10/15 - 50

PROGEF Standard Ball valve type 231 FC (Fail safe to close) With manual override With socket fusion spigots metric

Model:

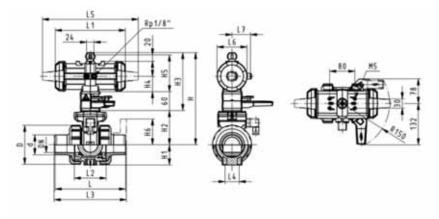
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

• Individual configuration of the valve (see diagram)

			J	`	,	
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	70	199 231 022	199 231 032	1.500
20	15	10	185	199 231 023	199 231 033	1.500
25	20	10	350	199 231 024	199 231 034	1.600
32	25	10	700	199 231 025	199 231 035	1.700
40	32	10	1000	199 231 026	199 231 036	2.800
50	40	10	1600	199 231 027	199 231 037	3.100
63	50	10	3100	199 231 028	199 231 038	3.051

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	110	194	56		25	261	76	48
20	50	159	27	62	168	40	77	120	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	139	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	170	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	190	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59





DN10/15 - 50

PROGEF Standard Ball valve type 231 FC (Fail safe to close) With manual override With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

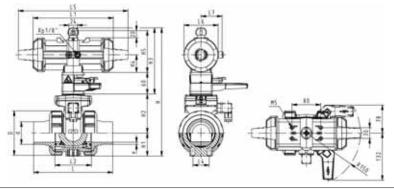
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	185	199 231 623	199 231 633	1.500
25	20	10	350	199 231 624	199 231 634	1.600
32	25	10	700	199 231 625	199 231 635	1.387
40	32	10	1000	199 231 626	199 231 636	2.800
50	40	10	1600	199 231 627	199 231 637	3.100
63	50	10	3100	199 231 628	199 231 638	4.000

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	168	40	77	130	194	56		25	261	76	48
25	50	159	27	62	168	40	77	143	194	56	130	25	261	76	48
32	58	168	30	71	168	40	77	150	194	65	150	25	261	76	48
40	68	168	36	71	168	40	77	171	194	71	160	25	261	76	48
50	84	202	44	84	187	51	99	191	224	85	180	45	305	95	59
63	97	202	51	84	187	51	99	220	224	89	200	45	305	95	59

d	е								
[mm]	[mm]								
20	1.9								
25	2.3								
32	3.0								
40	3.7								
50	4.6								
63	5.8								





PROGEF Standard Ball valve type 231 FC (Fail safe to close) With manual override With fixed flanges PP-H serrated metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

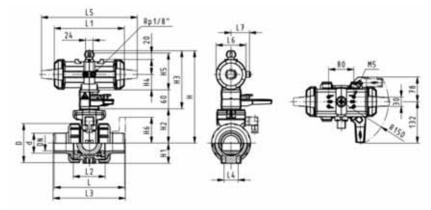
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	1/2	10	185	199 231 243	199 231 253	1.700	
25	20	3/4	10	350	199 231 244	199 231 254	1.900	
32	25	1	10	700	199 231 245	199 231 255	2.100	
40	32	1 1/4	10	1000	199 231 246	199 231 256	3.400	
50	40	1 ½	10	1600	199 231 247	199 231 257	3.900	
63	50	2	10	3100	199 231 248	199 231 258	4.900	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	230	27	62	168	40	77	48	120	194	56	130	25	261	76
25	58	239	30	71	168	40	77	53	139	194	65	150	25	261	76
32	68	239	36	71	168	40	77	58	150	194	71	160	25	261	76
40	84	271	44	84	187	51	99	70	170	224	85	180	45	305	95
50	97	271	51	84	187	51	99	75	190	224	89	200	45	305	95
63	124	293	64	106	187	51	99	83	220	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
20 25 32	48 48
40	59
50	59
63	59





DN10/15 - 50

PROGEF Standard Ball valve type 231 FO (Fail safe to open) With manual override With fusion sockets metric

Model:

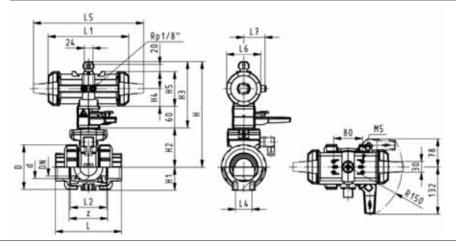
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	70	199 231 042	199 231 052	1.500
20	15	10	185	199 231 043	199 231 053	1.500
25	20	10	350	199 231 044	199 231 054	1.600
32	25	10	700	199 231 045	199 231 055	1.700
40	32	10	1000	199 231 046	199 231 056	2.800
50	40	10	1600	199 231 047	199 231 057	3.100
63	50	10	3100	199 231 048	199 231 058	4.000

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	Z [mm]
16	50	230	27	62	168	40	77	93	194	56	25	261	76	48	67
20	50	230	27	62	168	40	77	95	194	56	25	261	76	48	66
25	58	239	30	71	168	40	77	108	194	65	25	261	76	48	77
32	68	239	36	71	168	40	77	118	194	71	25	261	76	48	83
40	84	271	44	84	187	51	99	137	224	85	45	305	95	59	99
50	97	271	51	84	187	51	99	147	224	89	45	305	95	59	105
63	124	293	64	106	187	51	99	168	224	101	45	305	95	59	117





DN10/15 - 50

PROGEF Standard Ball valve type 231 FO (Fail safe to open) With manual override With socket fusion spigots metric

Model:

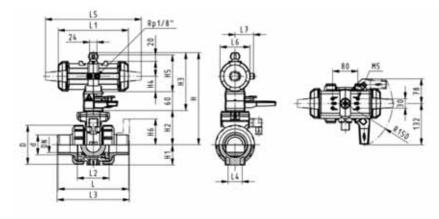
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar)	EPDM Code	FPM Code	kg
16	10	10	70	199 231 062	199 231 072	1.500
20	15	10	185	199 231 063	199 231 073	1.500
25	20	10	350	199 231 064	199 231 074	1.600
32	25	10	700	199 231 065	199 231 075	1.700
40	32	10	1000	199 231 066	199 231 076	2.800
50	40	10	1600	199 231 067	199 231 077	3.100
63	50	10	3100	199 231 068	199 231 078	4.000

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	110	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	120	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	139	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	170	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	190	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59
	1	1	1	1	1			1	1	1	1				





DN10/15 - 50

PROGEF Standard Ball valve type 231 FO (Fail safe to open) With manual override With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

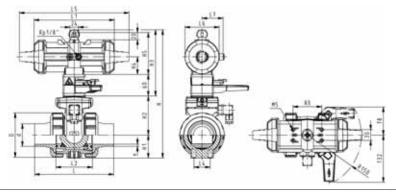
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	185	199 231 643	199 231 653	1.500
25	20	10	350	199 231 644	199 231 654	1.600
32	25	10	700	199 231 645	199 231 655	1.700
40	32	10	1000	199 231 646	199 231 656	2.800
50	40	10	1600	199 231 647	199 231 657	3.100
63	50	10	3100	199 231 648	199 231 658	4.000

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	168	40	77	130	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	143	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	171	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	191	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59

d	е
[mm]	[mm]
20	1.9
25	2.3
32	3.0
40	3.7
50	4.6
63	5.8





PROGEF Standard Ball valve type 231 FO (Fail safe to open) With manual override With fixed flanges PP-H serrated metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

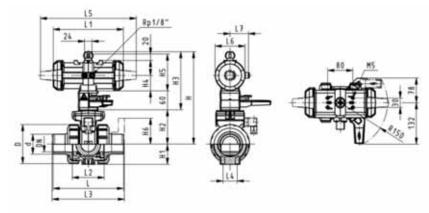
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	1/2	10	185	199 231 263	199 231 273	1.700	
25	20	3/4	10	350	199 231 264	199 231 274	1.900	
32	25	1	10	700	199 231 265	199 231 275	2.100	
40	32	1 1/4	10	1000	199 231 266	199 231 276	3.400	
50	40	1 ½	10	1600	199 231 267	199 231 277	3.900	
63	50	2	10	3100	199 231 268	199 231 278	4.900	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	58	230	27	62	168	40	77	48	120	194	56	130	25	261	76
25	58	239	30	71	168	40	77	53	139	194	65	150	25	261	76
32	68	239	36	71	168	40	77	58	150	194	71	160	25	261	76
40	84	271	44	84	187	51	99	70	170	224	85	180	45	305	95
50	97	271	51	84	187	51	99	75	190	224	89	200	45	305	95
63	124	293	64	106	187	51	99	83	220	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
20 25 32	48 48
40	59
50	59
63	59





DN10/15 - 50

PROGEF Standard Ball valve type 231 DA (Double acting) With manual override With fusion sockets metric

Model:

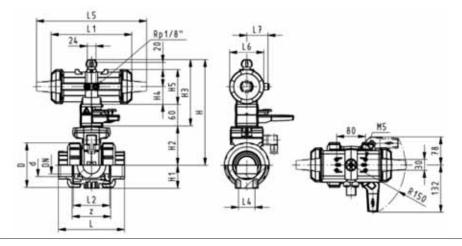
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	70	199 231 082	199 231 092	1.500
20	15	10	185	199 231 083	199 231 093	1.500
25	20	10	350	199 231 084	199 231 094	1.600
32	25	10	700	199 231 085	199 231 095	1.700
40	32	10	1000	199 231 086	199 231 096	2.800
50	40	10	1600	199 231 087	199 231 097	3.100
63	50	10	3100	199 231 088	199 231 098	4.000

		1		1				1						1	
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	Z [mm]
16	50	159	27	62	168	40	77	93	194	56	25	261	76	48	67
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	66
25	58	168	30	71	168	40	77	108	194	65	25	261	76	48	77
32	68	168	36	71	168	40	77	118	194	71	25	261	76	48	83
40	84	202	44	84	187	51	99	137	224	85	45	305	95	59	99
50	97	202	51	84	187	51	99	147	224	89	45	305	95	59	105
63	124	225	64	106	187	51	99	168	224	101	45	305	95	59	117





DN10/15 - 50

PROGEF Standard Ball valve type 231 DA (Double acting) With manual override With socket fusion spigots metric

Model:

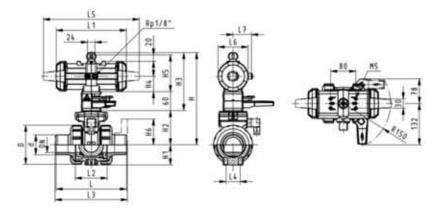
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	70	199 231 102	199 231 112	1.500
20	15	10	185	199 231 103	199 231 113	1.500
25	20	10	350	199 231 104	199 231 114	1.600
32	25	10	700	199 231 105	199 231 115	1.700
40	32	10	1000	199 231 106	199 231 116	2.800
50	40	10	1600	199 231 107	199 231 117	3.100
63	50	10	3100	199 231 108	199 231 118	4.000

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	110	194	56		25	261	76	48
20	50	159	27	62	168	40	77	120	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	139	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	170	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	190	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59





DN10/15 - 50

PROGEF Standard Ball valve type 231 DA (Double acting) With manual override With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

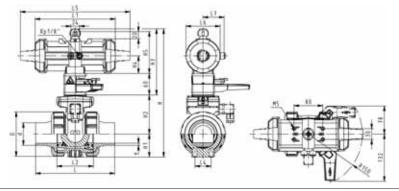
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	185	199 231 663	199 231 673	1.500
25	20	10	350	199 231 664	199 231 674	1.600
32	25	10	700	199 231 665	199 231 675	1.700
40	32	10	1000	199 231 666	199 231 676	2.800
50	40	10	1600	199 231 667	199 231 677	3.100
63	50	10	3100	199 231 668	199 231 678	4.000

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	168	40	77	130	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	143	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	171	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	191	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59

d	е
[mm]	[mm]
20	1.9
25	2.3
32	3.0
40	3.7
50	4.6
63	5.8





PROGEF Standard Ball valve type 231 DA (Double acting) With manual override With fixed flanges PP-H serrated metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

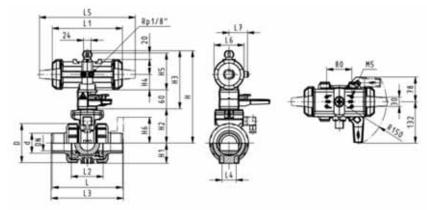
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	1/2	10	185	199 231 283	199 231 293	1.700	
25	20	3/4	10	350	199 231 284	199 231 294	1.900	
32	25	1	10	700	199 231 285	199 231 295	2.100	
40	32	1 1/4	10	1000	199 231 286	199 231 296	3.400	
50	40	1 ½	10	1600	199 231 287	199 231 297	3.900	
63	50	2	10	3100	199 231 288	199 231 298	4.900	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	230	27	62	168	40	77	48	120	194	56	130	25	261	76
25	58	239	30	71	168	40	77	53	139	194	65	150	25	261	76
32	68	239	36	71	168	40	77	58	150	194	71	160	25	261	76
40	84	271	44	84	187	51	99	70	170	224	85	180	45	305	95
50	97	271	51	84	187	51	99	75	190	224	89	200	45	305	95
63	124	293	64	106	187	51	99	83	220	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
20 25 32	48 48
40	59
50	59
63	59



DN10/15 - 50



PROGEF Standard Ball valve type 231 FC (Fail safe to close) Without manual override With fusion sockets metric

Model:

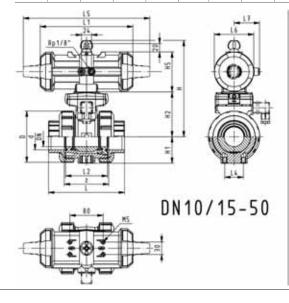
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

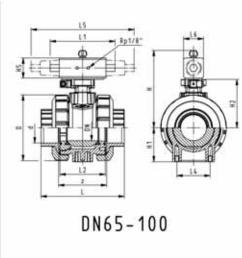
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	70	199 231 122	199 231 132	1.200	
20	15	10	185	199 231 123	199 231 133	0.996	
25	20	10	350	199 231 124	199 231 134	1.300	
32	25	10	700	199 231 125	199 231 135	1.129	
40	32	10	1000	199 231 126	199 231 136	2.500	
50	40	10	1600	199 231 127	199 231 137	2.800	
63	50	10	3100	199 231 128	199 231 138	3.700	
75	65	10	5000	199 231 129	199 231 139	5.142	
90	80	10	7000	199 231 130	199 231 140	8.057	
110	100	10	11000	199 231 131	199 231 141	12.600	

d	D	Н	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	50	159	27	62	77	93	194	56	25	261	76	48	67
20	50	159	27	62	77	95	194	56	25	261	76	48	66
25	58	168	30	71	77	108	194	65	25	261	76	48	77
32	68	168	36	71	77	118	194	71	25	261	76	48	83
40	84	202	44	84	99	137	224	85	45	305	95	59	99
50	97	202	51	84	99	147	224	89	45	305	95	59	105
63	124	225	64	106	99	168	224	101	45	305	95	59	117
75	166	262	85	156	70	233		136	70	276	65		167
90	200	281	105	168	78	254		141	70	341	72		180
110	238	292	123	175	86	301		164	120	369	80		215





210 +GF+



DN10/15 - 50



PROGEF Standard Ball valve type 231 FC (Fail safe to close) Without manual override With socket fusion spigots metric

Model:

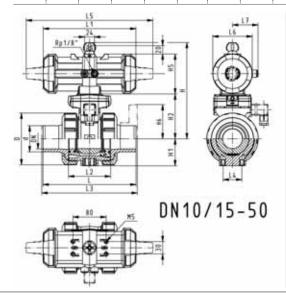
- Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

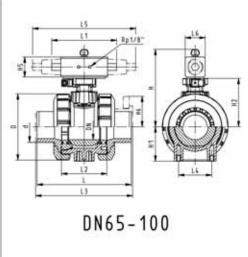
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	70	199 231 142	199 231 152	1.200	
20	15	10	185	199 231 143	199 231 153	1.004	
25	20	10	350	199 231 144	199 231 154	1.300	
32	25	10	700	199 231 145	199 231 155	0.001	
40	32	10	1000	199 231 146	199 231 156	2.035	
50	40	10	1600	199 231 147	199 231 157	2.228	
63	50	10	3100	199 231 148	199 231 158	3.700	
75	65	10	5000	199 231 149	199 231 159	6.600	
90	80	10	7000	199 231 150	199 231 160	8.400	
110	100	10	11000	199 231 151	199 231 161	12.600	

d	D	Н	H1	H2	H5	L	L1	L2	L3	L4	L5	L6	L7
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	50	159	27	62	77	110	194	56	130	25	261	76	48
20	50	159	27	62	77	120	194	56	130	25	261	76	48
25	58	168	30	71	77	139	194	65	150	25	261	76	48
32	68	168	36	71	77	150	194	71	160	25	261	76	48
40	84	202	44	84	99	170	224	85	180	45	305	95	59
50	97	202	51	84	99	190	224	89	200	45	305	95	59
63	124	225	64	106	99	220	224	101	230	45	305	95	59
75	166	262	85	156	70	280		136	290	70	276	65	
90	200	281	105	168	78	296		141	310	70	341	72	
110	238	292	123	175	86	336		164	350	120	369	80	







DN10/15 - 50

PROGEF Standard Ball valve type 231 FC (Fail safe to close) Without manual override With fixed flanges PP-H serrated metric

Model:

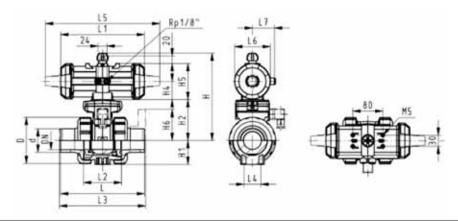
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option

• Individual configuration of the valve (see diagram)

IIIG	ividad	ai 0011	ngun	ation c	,, ,,,,	vaive	, (300	, ai	ugi	aiii)							
d [mm]	DN [mm]	Inch	PN	kv-val (Δp=1 [l/min]		EPDI Code			FP Co			kg					
20	15	1/2	10		185	199 2	31 42	3	199	231	433	1.400					
25	20	3/4	10		350	199 2	31 42	4	199	231	434	1.600					
32	25	1	10		700	199 2	31 42	5	199	231	435	1.377					
40	32	1 1/4	10		1000	199 2	31 42	6	199	231	436	3.100					
50	40	1 ½	10		1600	199 2	31 42	7	199	231	437	3.600					
63	50	2	10		3100	199 2	31 42	8	199	231	438	4.700					
d [mm]	D [mm]	H [mm]	H1 [mm]	H2	H4 [mm]	H5 [mm]	H6 [mm]	L [m	m]	L1 [mm]	L2	L3	L4 [mm]	L5	L6	L7 [mm]	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	120	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	140	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	150	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	170	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	190	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	220	224	101	230	45	305	95	59





PROGEF Standard Ball valve type 231 FC (Fail safe to close) Without manual override With backing flanges PP-st metric

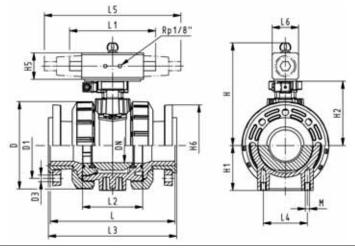
Model:

- Material: PP-H
- · For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

• Individual configuration of the valve (see diagram)

iiiai	ividad		94.4			٠ (,000 0		,			
d [mm]	DN [mm]	Inch		kv-val (∆p=1 [l/min]		EPDN Code	I	FPN Cod		ŀ	g	
75	65	2 ½	10		5000	199 2	31 329	199	231 3	39	5.228	
90	80	3	10		7000	199 2	31 330	199	231 3	40	13.600	
110	100	4	10	1	1000	199 2	31 331	199	231 3	41	19.800	
d	D	Н	H1	H2	H5	Н6	L	L2	L3	L4	L5	L6
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
75	166	262	85	156	70	93	280	136	290	70	276	65
90	200	281	105	168	78	100	296	141	310	70	341	72
110	238	292	123	175	86	110	336	164	350	120	369	80





DN10/15 - 50



PROGEF Standard Ball valve type 231 FC (Fail safe to close) Without manual override With butt fusion spigots IR-Plus SDR11 metric

Model:

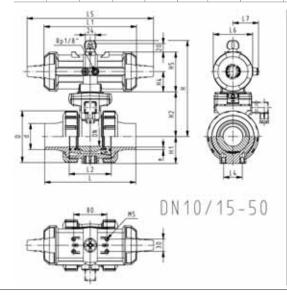
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

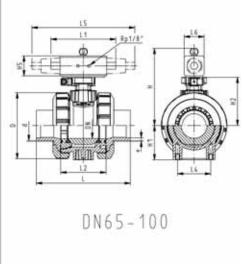
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	185	199 231 833	199 231 843	1.000	
25	20	10	350	199 231 834	199 231 844	1.300	
32	25	10	700	199 231 835	199 231 845	1.400	
40	32	10	1000	199 231 836	199 231 846	2.500	
50	40	10	1600	199 231 837	199 231 847	2.800	
63	50	10	3100	199 231 838	199 231 848	2.789	
75	65	10	5000	199 231 839	199 231 849	6.600	
90	80	10	7000	199 231 840	199 231 850	8.400	
110	100	10	11000	199 231 841	199 231 851	12.600	

d	D	Н	H1	H2	H5	L	L1	L2	L3	L4	L5	L6	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	50	159	27	62	77	130	194.0	56	130	25	261	76	1.9
25	58	168	30	71	77	143	194.0	65	150	25	261	76	2.3
32	68	168	36	71	77	150	194.0	71	160	25	261	76	3.0
40	84	202	44	84	99	171	224.0	85	180	45	305	95	3.7
50	97	202	51	84	99	191	224.0	89	200	45	305	95	4.6
63	142	225	64	106	99	220	224.0	101	230	45	305	95	5.8
75	166	262	85	156	70	266	270.0	136	290	70	276	65	8.2
90	200	281	105	168	78	264	270.0	141	310	70	341	72	9.9
110	238	292	123	175	86	301	320.0	164	350	120	369	80	12.0







DN10/15 - 50



PROGEF Standard Ball valve type 231 FC (Fail safe to close) Without manual override With butt fusion spigots SDR17.6 metric

Model:

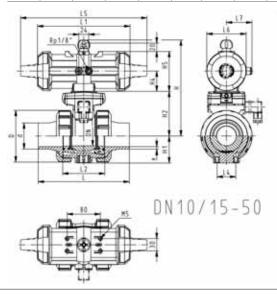
- Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

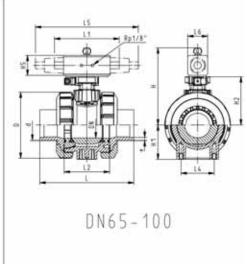
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
50	40	10	1600	199 231 937	199 231 947		
63	50	10	3100	199 231 938	199 231 948		
75	65	10	5000	199 231 939	199 231 949	6.600	
90	80	10	7000	199 231 940	199 231 950	8.400	
110	100	10	11000	199 231 941	199 231 951	12.600	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]
50	97	202	51	84	99	191	89	200	45	305	95	2.9
63	142	225	64	106	99	220	101	230	45	305	95	3.6
75	166	262	85	156	70	266	136	290	70	276	65	4.6
90	200	281	105	168	78	264	141	310	70	341	72	5.5
110	238	292	123	175	86	301	164	350	120	369	80	6.7





DN10/15 - 50



PROGEF Standard Ball valve type 231 FO (Fail safe to open) Without manual override With fusion sockets metric

Model:

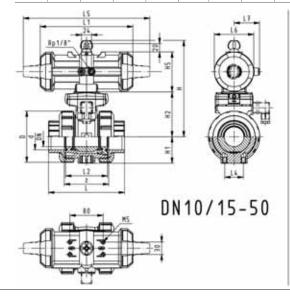
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

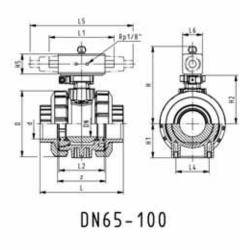
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	70	199 231 162	199 231 172	1.200	
20	15	10	185	199 231 163	199 231 173	1.200	
25	20	10	350	199 231 164	199 231 174	1.300	
32	25	10	700	199 231 165	199 231 175	1.400	
40	32	10	1000	199 231 166	199 231 176	2.500	
50	40	10	1600	199 231 167	199 231 177	2.800	
63	50	10	3100	199 231 168	199 231 178	3.700	
75	65	10	5000	199 231 169	199 231 179	6.600	
90	80	10	7000	199 231 170	199 231 180	8.400	
110	100	10	11000	199 231 171	199 231 181	12.600	

							*				*		
d	D	Н	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	50	159	27	62	77	93	194	56	25	261	76	48	66
20	50	159	27	62	77	95	194	56	25	261	76	48	67
25	58	168	30	71	77	108	194	65	25	261	76	48	77
32	68	168	36	71	77	118	194	71	25	261	76	48	83
40	84	202	44	84	99	137	224	85	45	305	95	59	99
50	97	202	51	84	99	147	224	89	45	305	95	59	105
63	124	225	64	106	99	168	224	101	45	305	95	59	117
75	166	262	85	156	70	233		136	70	276	65		167
90	200	281	105	168	78	254		141	70	341	72		180
110	238	292	123	175	86	301		164	120	369	80		215





216 +GF+



DN10/15 - 50



PROGEF Standard Ball valve type 231 FO (Fail safe to open) Without manual override With socket fusion spigots metric

Model:

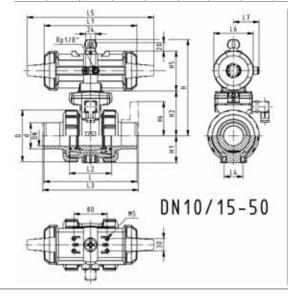
- Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

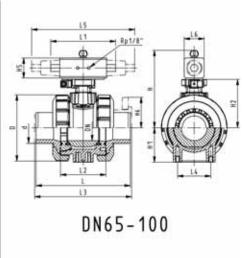
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	70	199 231 182	199 231 192	1.200	
20	15	10	185	199 231 183	199 231 193	1.200	
25	20	10	350	199 231 184	199 231 194	1.300	
32	25	10	700	199 231 185	199 231 195	1.400	
40	32	10	1000	199 231 186	199 231 196	2.500	
50	40	10	1600	199 231 187	199 231 197	2.800	
63	50	10	3100	199 231 188	199 231 198	3.700	
75	65	10	5000	199 231 189	199 231 199	6.600	
90	80	10	7000	199 231 190	199 231 200	8.400	
110	100	10	11000	199 231 191	199 231 201	12.600	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	77	110	194	56	130	25	261	76	48
20	50	159	27	62	77	120	194	56	130	25	261	76	48
25	58	168	30	71	77	139	194	65	150	25	261	76	48
32	68	168	36	71	77	150	194	71	160	25	261	76	48
40	84	202	44	84	99	170	224	85	180	45	305	95	59
50	97	202	51	84	99	190	224	89	200	45	305	95	59
63	124	225	64	106	99	220	224	101	230	45	305	95	59
75	166	262	85	156	70	280		136	290	70	276	65	
90	200	281	105	168	78	296		141	310	70	341	72	
110	238	292	123	175	86	336		164	350	120	369	80	
	1	1	1	1	1	1	1	1	1		1	1	1







DN10/15 - 50

PROGEF Standard Ball valve type 231 FO (Fail safe to open) Without manual override With fixed flanges PP-H serrated metric

Model:

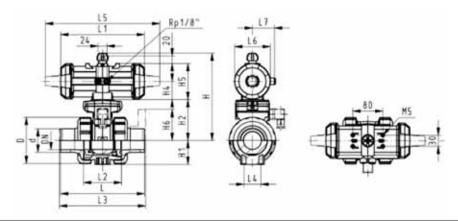
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-val (Δp=1		EPDI Code			FPI Cod			kg				
20	15	1/2	10		185	199 2	31 44	3	199	231	453	1.400				
25	20	3/4	10		350	199 2	31 44	4	199	231	454	1.600				
32	25	1	10		700	199 2	31 44	5	199	231	455	1.800				
40	32	1 1/4	10		1000	199 2	31 44	6	199	231	456	0.001				
50	40	1 ½	10		1600	199 2	31 44	7	199	231	457	3.600				
63	50	2	10		3100	199 2	31 44	8	199	231	458	4.700				
d	D	Н	H1	H2	H4	H5	Н6	L		L1	L2	L3	L4	L5	L6	L7

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	120	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	140	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	150	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	170	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	190	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	220	224	101	230	45	305	95	59





PROGEF Standard Ball valve type 231 FO (Fail safe to open) Without manual override With backing flanges PP-st metric

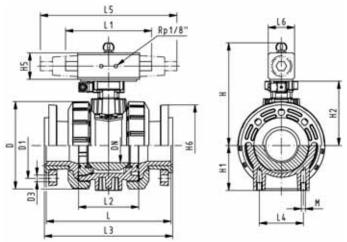
Model:

- Material: PP-H
- · For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch		kv-value (Δp=1 bar) [l/min]		EPDM Code		FPM Code		k	kg	
75 90	65 80	2 ½ 3	10 10		5000 7000	199 23 199 23			231 3 231 3		10.900 13.600	1
110	100	4	10	11000		199 231 351		199 231 361		61	19.800	
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
75 90 110	166 200 238	262 281 292	85 105 123	156 168 175	70 78 86	93 100 110	280 296 336	136 141 164	290 310 350	70 70 120	276 341 369	65 72 80





DN10/15 - 50



PROGEF Standard Ball valve type 231 FO (Fail safe to open) Without manual override With butt fusion spigots IR-Plus SDR11 metric

Model:

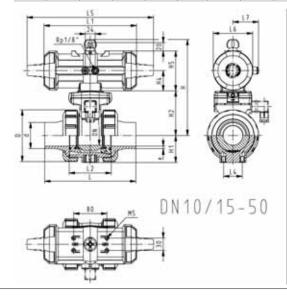
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

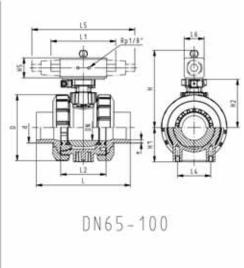
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	185	199 231 853	199 231 863	1.200	
25	20	10	350	199 231 854	199 231 864	1.300	
32	25	10	700	199 231 855	199 231 865	1.400	
40	32	10	1000	199 231 856	199 231 866	2.032	
50	40	10	1600	199 231 857	199 231 867	2.800	
63	50	10	3100	199 231 858	199 231 868	2.791	
75	65	10	5000	199 231 859	199 231 869	6.600	
90	80	10	7000	199 231 860	199 231 870	8.400	
110	100	10	11000	199 231 861	199 231 871	12.600	

d	D	Н	H1	H2	H5	L	L1	L2	L3	L4	L5	L6	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	50	159	27	62	77	120	194	56	130	25	261	76	1.9
25	58	168	30	71	77	139	194	65	150	25	261	76	2.3
32	68	168	36	71	77	150	194	71	160	25	261	76	3.0
40	84	202	44	84	99	170	224	85	180	45	305	95	3.7
50	97	202	51	84	99	190	224	89	200	45	305	95	4.6
63	124	225	64	106	99	220	224	101	230	45	305	95	5.8
75	166	262	85	156	70	266	218	136	290	70	276	65	8.2
90	200	281	105	168	78	264	259	141	310	70	341	72	9.9
110	238	292	123	175	86	301	287	164	350	120	369	80	12.0







DN10/15 - 50



PROGEF Standard Ball valve type 231 FO (Fail safe to open) Without manual override With butt fusion spigots SDR17.6 metric

Model:

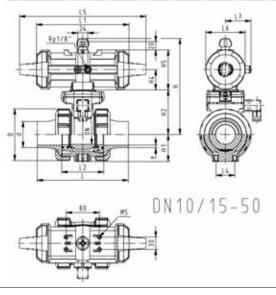
- Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

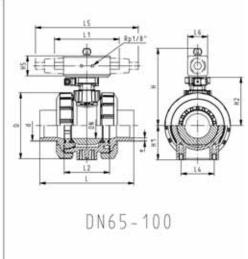
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-valu (Δp=1 l		EPDN Code	I	FPN	-	I	kg			
75	65	10	5	5000	199 2	31 959	199	231 9	69	6.600			
90	80	10	7	7000	199 2	31 960	199	231 9	70	8.400			
110	100	10	11	1000	199 2	31 961	199	231 9	71	12.600			
d	D	Н	H1	H2	H5	1	L2	L3	L4	L5	L6	е	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]
75	166	262	85	156	70	266	136	290	70	276	65	4.6
90	200	281	105	168	78	264	141	310	70	341	72	5.5
110	238	292	123	175	86	301	164	350	120	369	80	6.7







DN10/15 - 50



PROGEF Standard Ball valve type 231 DA (Double acting) Without manual override With fusion sockets metric

Model:

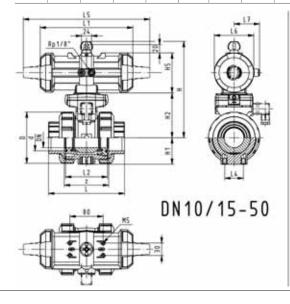
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

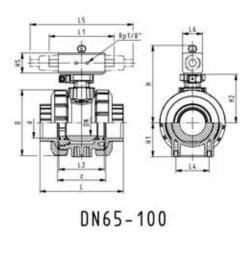
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	70	199 231 202	199 231 212	1.200	
20	15	10	185	199 231 203	199 231 213	0.774	
25	20	10	350	199 231 204	199 231 214	1.300	
32	25	10	700	199 231 205	199 231 215	0.919	
40	32	10	1000	199 231 206	199 231 216	2.500	
50	40	10	1600	199 231 207	199 231 217	1.701	
63	50	10	3100	199 231 208	199 231 218	3.700	
75	65	10	5000	199 231 209	199 231 219	5.400	
90	80	10	7000	199 231 210	199 231 220	7.700	
110	100	10	11000	199 231 211	199 231 221	10.800	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6	L7 [mm]	Z [mm]
firming	firming	firming	firming	firming	[iiiiii]	firming	firming	firming	firming	firmin	firmin	firming	firming
16	50	159	27	62	77	93	194	56	25	261	76	48	66
20	50	159	27	62	77	95	194	56	25	261	76	48	67
25	58	168	30	71	77	108	194	65	25	261	76	48	77
32	68	168	36	71	77	118	194	71	25	261	76	48	83
40	84	202	44	84	99	137	224	85	45	305	95	59	99
50	97	202	51	84	99	147	224	89	45	305	95	59	105
63	124	225	64	106	99	168	224	101	45	305	95	59	117
75	166	257	85	156	66	233	144	136	70		60		167
90	200	274	105	168	70	254	152	141	70		65		180
110	238	273	123	175	78	301	169	164	120		72		215







DN10/15 - 50



PROGEF Standard Ball valve type 231 DA (Double acting) Without manual override With socket fusion spigots metric

Model:

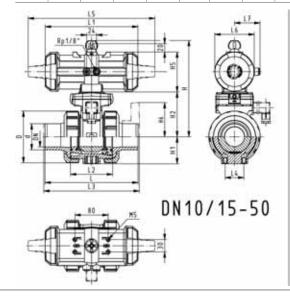
- Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

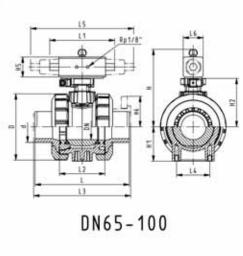
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
16	10	10	70	199 231 222	199 231 232	1.200	
20	15	10	185	199 231 223	199 231 233	1.200	
25	20	10	350	199 231 224	199 231 234	1.300	
32	25	10	700	199 231 225	199 231 235	0.929	
40	32	10	1000	199 231 226	199 231 236	2.500	
50	40	10	1600	199 231 227	199 231 237	2.800	
63	50	10	3100	199 231 228	199 231 238	3.700	
75	65	10	5000	199 231 229	199 231 239	5.500	
90	80	10	7000	199 231 230	199 231 240	7.800	
110	100	10	11000	199 231 231	199 231 241	10.900	

d	D	Н	H1	H2	H5	L	L1	L2	L3	L4	L5	L6	L7
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	50	159	27	62	77	110	194	56	130	25	261	76	48
20	50	159	27	62	77	120	194	56	130	25	261	76	48
25	58	168	30	71	77	139	194	65	150	25	261	76	48
32	68	168	36	71	77	150	194	71	160	25	261	76	48
40	84	202	44	84	99	170	224	85	180	45	305	95	59
50	97	202	51	84	99	190	224	89	200	45	305	95	59
63	124	225	64	106	99	220	224	101	230	45	305	95	59
75	166	257	85	156	66	280	144	136	290	70		60	
90	200	274	105	168	70	296	152	141	310	70		65	
110	238	273	123	175	78	336	169	164	350	120		72	







DN10/15 - 50

PROGEF Standard Ball valve type 231 DA (Double acting) Without manual override With fixed flanges PP-H serrated metric

Model:

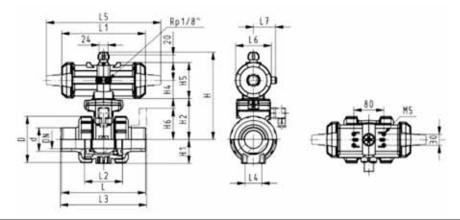
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-valu (∆p=1 [l/min]		EPD Code			FPI			kg					
20	15	1/2	10		185	199	231 46	63	199	231	473	1.400					
25	20	3/4	10		350	199 2	231 46	64	199	231	474	1.600					
32	25	1	10		700	199 2	231 46	65	199	231	475	1.160					
40	32	1 1/4	10		1000	199 2	231 46	66	199	231	476	3.100					
50	40	1 1/2	10		1600	199 2	231 46	67	199	231	477	3.600					
63	50	2	10	;	3100	199	231 46	86	199	231	478	2.869					
	D		114	110	114	115	116	Τ.		1.4	1.0	1.2	1.4	1.5	1.0	1.7	Т

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	120	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	140	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	150	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	170	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	190	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	220	224	101	230	45	305	95	59





PROGEF Standard Ball valve type 231 DA (Double acting) Without manual override With backing flanges PP-st metric

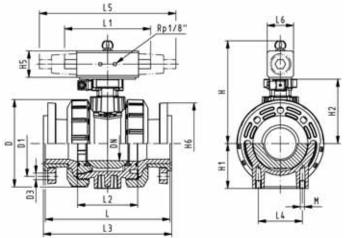
Model:

- Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch		kv-val (∆p=1 [l/min]		EPDN Code	I	FPN Cod		k	g	
75 90	65 80	2 ½ 3	10 10		5000 7000		31 369 31 370		231 3 231 3	- 1	9.700 13.000	1
110	100	4	10	1	1000	199 2	31 371	199	231 3	B1	18.000	
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L6 [mm]
75 90 110	166 200 238	257 274 273	85 105 123	156 168 175	66 70 78	93 100 110	280 296 336	144 152 169	136 141 164	290 310 350	70	60 65 72





DN10/15 - 50



PROGEF Standard Ball valve type 231 DA (Double acting) Without manual override With butt fusion spigots IR-Plus SDR11 metric

Model:

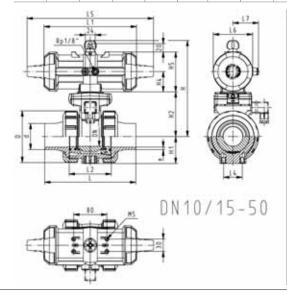
- · Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

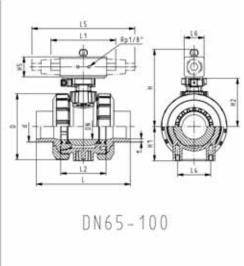
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
20	15	10	185	199 231 873	199 231 883	1.200	
25	20	10	350	199 231 874	199 231 884	1.300	
32	25	10	700	199 231 875	199 231 885	1.400	
40	32	10	1000	199 231 876	199 231 886	2.500	
50	40	10	1600	199 231 877	199 231 887	2.800	
63	50	10	3100	199 231 878	199 231 888	3.700	
75	65	10	5000	199 231 879	199 231 889	5.500	
90	80	10	7000	199 231 880	199 231 890	7.800	
110	100	10	11000	199 231 881	199 231 891	10.900	

d	D	Н	H1	H2	H5	L	L1	L2	L3	L4	L6	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	50	159	27	62	77	130	194	56	130	25	76	1.9
25	58	168	30	71	77	143	194	65	150	25	76	2.3
32	68	168	36	71	77	150	194	71	160	25	76	3.0
40	84	202	44	84	99	171	224	85	180	45	95	3.7
50	97	202	51	84	99	191	224	89	200	45	95	4.6
63	124	225	64	106	99	220	224	101	230	45	95	5.8
75	166	257	85	156	66	266	144	136	290	70	60	8.2
90	200	274	105	168	70	264	152	141	310	70	65	9.9
110	238	273	123	175	78	301	169	164	350	120	72	12.0







DN10/15 - 50



PROGEF Standard Ball valve type 231 DA (Double acting) Without manual override With butt fusion spigots SDR17.6 metric

Model:

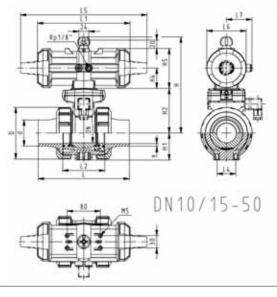
- Material: PP-H
- · For easy installation and removal
- · Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

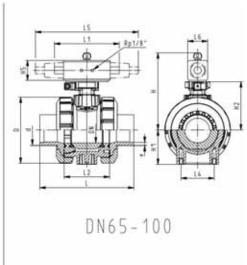
Option:

• Individual configuration of the valve (see diagram)

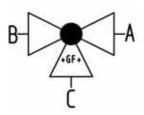
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
50	40	10	1600	199 231 977	199 231 987		
63	50	10	3100	199 231 978	199 231 988		
75	65	10	5000	199 231 979	199 231 989	5.500	
90	80	10	7000	199 231 980	199 231 990	7.800	
110	100	10	11000	199 231 981	199 231 991	10.900	

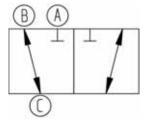
d	D	Н	H1	H2	H5	L	L1	L2	L3	L4	L6	е
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
50	97	202	51	84	99	191	224	89	200	45	95	2.9
63	124	225	64	106	99	220	224	101	230	45	95	3.6
75	166	257	85	156	66	266	144	136	290	70	60	4.6
90	200	274	105	168	70	264	152	141	310	70	65	5.5
110	238	273	123	175	78	301	169	164	350	120	72	6.7











PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port Without manual override With fusion sockets metric

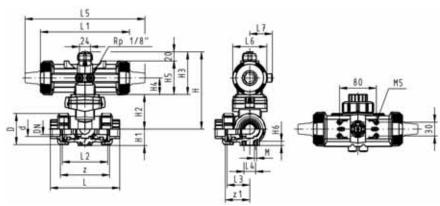
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the basic position
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

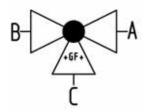
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	199 286 022	199 286 032	1.031
20	15	10	75	199 286 023	199 286 033	1.035
25	20	10	150	199 286 024	199 286 034	1.125
32	25	10	280	199 286 025	199 286 035	1.250
40	32	10	480	199 286 026	199 286 036	2.217
50	40	10	620	199 286 027	199 286 037	2.513
63	50	10	1230	199 286 028	199 286 038	3.500

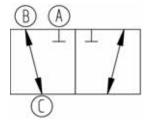
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d	L7	М	z	z1
[mm]	[mm]		[mm]	[mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94









PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port Without manual override With threaded sockets reinforced Rp

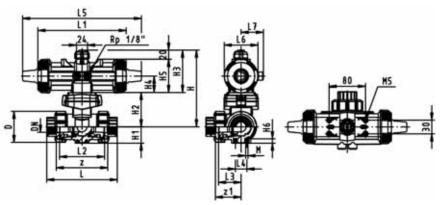
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the basic position
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

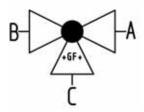
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3/8	10	10	50	199 286 122	199 286 132	1.031	
1/2	15	10	75	199 286 123	199 286 133	1.035	
3/4	20	10	150	199 286 124	199 286 134	1.125	
1	25	10	280	199 286 125	199 286 135	1.250	
1 1/4	32	10	480	199 286 126	199 286 136	2.217	
1 1/2	40	10	620	199 286 127	199 286 137	2.513	
2	50	10	1230	199 286 128	199 286 138	3.420	

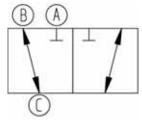
Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

Rp	L7	M	Z	z1
[inch]	[mm]		[mm]	[mm]
3/8	48	6	86	43
1/2	48	6	84	42
3/4	48	6	99	50
1	48	6	112	56
1 1/4	59	8	132	66
1 1/2	59	8	153	77
2	59	8	196	98









PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port Without manual override With socket fusion spigots metric

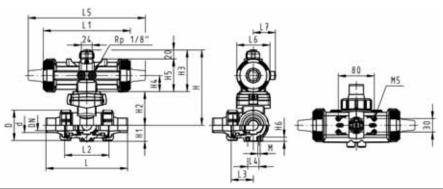
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the basic position
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

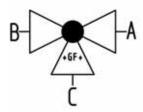
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	199 286 002	199 286 012	1.035
20	15	10	75	199 286 003	199 286 013	1.041
25	20	10	150	199 286 004	199 286 014	1.135
32	25	10	280	199 286 005	199 286 015	1.265
40	32	10	480	199 286 006	199 286 016	2.231
50	40	10	620	199 286 007	199 286 017	2.554
63	50	10	1230	199 286 008	199 286 018	3.502

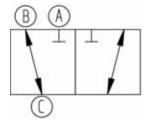
d	D	Н	H1	H2	Н3	H4	H5	Н6	L	L1	L2	L3	L4	L5	L6
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8









PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port Without manual override With butt fusion spigots IR-Plus SDR11 metric

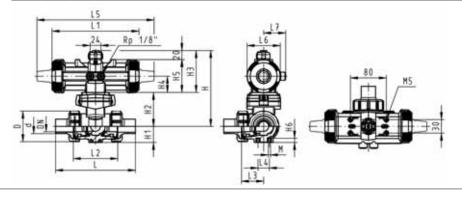
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the basic position
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

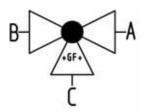
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	75	199 286 083	199 286 093	1.050
25	20	10	150	199 286 084	199 286 094	1.138
32	25	10	280	199 286 085	199 286 095	1.265
40	32	10	480	199 286 086	199 286 096	2.231
50	40	10	620	199 286 087	199 286 097	2.554
63	50	10	1230	199 286 088	199 286 098	3.568

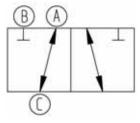
d	D	Н	H1	H2	Н3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8









PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port DA (Double acting) Without manual override With fusion sockets metric

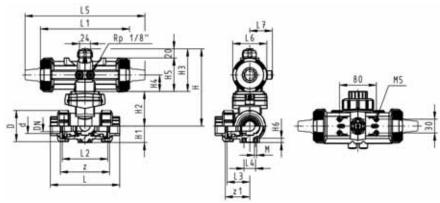
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

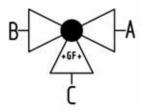
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	199 286 182	199 286 192	0.841
20	15	10	75	199 286 183	199 286 193	0.845
25	20	10	150	199 286 184	199 286 194	0.935
32	25	10	280	199 286 185	199 286 195	1.060
40	32	10	480	199 286 186	199 286 196	1.793
50	40	10	620	199 286 187	199 286 197	2.089
63	50	10	1230	199 286 188	199 286 198	2.996

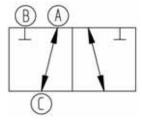
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77 77	8	110	194	72	36	25	261	76
20 25	50 58	159 168	28 32	62 71	97 97	40 40	77	8	112 129	194 194	72 85	36 43	25 25	261 261	76 76
32 40	68 84	168 203	36 45	71 84	97 119	40 51	77 99	8	146 170	194 224	98 118	49 59	25 45	261 305	76 95
50 63	97 124	203 225	51 65	84 106	119 119	51 51	99 99	9	193 244	224 224	135 176	68 88	45 45	305 305	95 95

L7 [mm] 48	M	z [mm]	z1 [mm]
	6		-
48	6	00	
	0	82	41
48	6	82	41
48	6	97	49
48	6	110	55
59	8	132	66
59	8	151	76
59	8	188	94
	48 48 59 59	48 6 48 6 59 8 59 8	48 6 97 48 6 110 59 8 132 59 8 151









PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port DA (Double acting) Without manual override With threaded sockets reinforced Rp

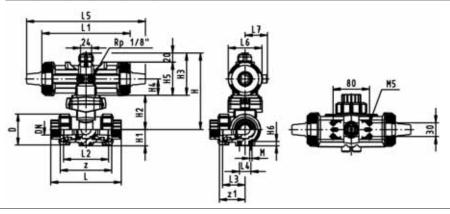
Model:

- · Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

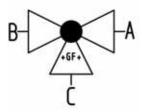
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3/8	10	10	50	199 286 282	199 286 292	0.841
1/2	15	10	75	199 286 283	199 286 293	0.845
3/4	20	10	150	199 286 284	199 286 294	0.935
1	25	10	280	199 286 285	199 286 295	1.060
1 1/4	32	10	480	199 286 286	199 286 296	1.793
1 ½	40	10	620	199 286 287	199 286 297	2.156
2	50	10	1230	199 286 288	199 286 298	2.996

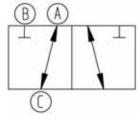
Rp	D	Н	H1	H2	Н3	H4	H5	Н6	L	L1	L2	L3	L4	L5	L6
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 ½	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

			_		 		 	 	 _
Dn	L7	М	7	z1					
Rp	L/	IVI	Z	41					
[inch]	[mm]		[mm]	[mm]					
3/8	48	6	86	43					
1/2	48	6	84	42					
72	1	1	04	42					
3/4	48	6	99	50					
1	48	6	112	56					
		1							
1 1/4	59	8	132	66					
1 ½	59	8	153	77					
	l			1					
2	59	8	196	98					
	59	0	190	90					









PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port DA (Double acting) Without manual override With socket fusion spigots metric

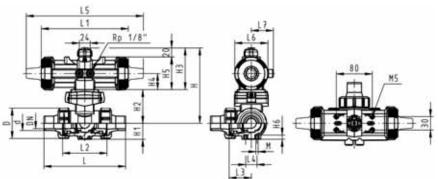
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

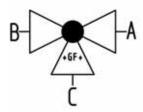
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	50	199 286 162	199 286 172	0.845
20	15	10	75	199 286 163	199 286 173	0.851
25	20	10	150	199 286 164	199 286 174	0.945
32	25	10	280	199 286 165	199 286 175	1.075
40	32	10	480	199 286 166	199 286 176	1.807
50	40	10	620	199 286 167	199 286 177	2.130
63	50	10	1230	199 286 168	199 286 178	3.078

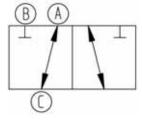
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95
	1				1					1		1			

d	L7	М
[mm]	[mm]	
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8









PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port DA (Double acting) Without manual override With butt fusion spigots IR-Plus SDR11 metric

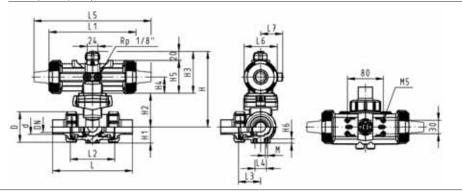
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

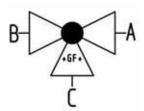
	•			•		
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	75	199 286 243	199 286 253	0.851
25	20	10	150	199 286 244	199 286 254	0.945
32	25	10	280	199 286 245	199 286 255	1.075
40	32	10	480	199 286 246	199 286 256	1.807
50	40	10	620	199 286 247	199 286 257	2.130
63	50	10	1230	199 286 248	199 286 258	3.082

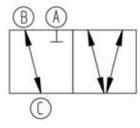
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d	L7	M	
[mm]	[mm]		
20	48	6	
25	48	6	
32	48	6	
40	59	8	
50	59	8	
63	59	8	









PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port Without manual override With fusion sockets metric

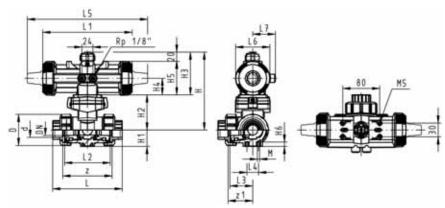
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the basic position
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

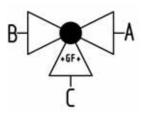
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	140	199 286 062	199 286 072	1.031
20	15	10	200	199 286 063	199 286 073	1.035
25	20	10	470	199 286 064	199 286 074	1.124
32	25	10	793	199 286 065	199 286 075	1.266
40	32	10	1290	199 286 066	199 286 076	2.210
50	40	10	1910	199 286 067	199 286 077	2.499
63	50	10	3100	199 286 068	199 286 078	3.391

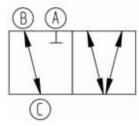
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d	L7	M	Z	z1
[mm]	[mm]		[mm]	[mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94









PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port Without manual override With threaded sockets reinforced Rp

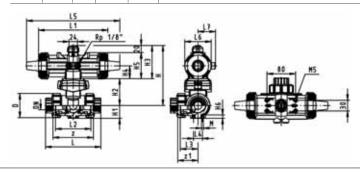
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the basic position
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

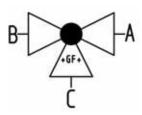
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3/8	10	10	140	199 286 142	199 286 152	1.031
1/2	15	10	200	199 286 143	199 286 153	1.035
3/4	20	10	470	199 286 144	199 286 154	1.124
1	25	10	793	199 286 145	199 286 155	1.245
1 1/4	32	10	1290	199 286 146	199 286 156	2.210
1 1/2	40	10	1910	199 286 147	199 286 157	2.499
2	50	10	3100	199 286 148	199 286 158	3.391

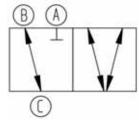
Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5	H6	L [mm]	L1 [mm]	L2 [mm]	L3	L4 [mm]	L5 [mm]	L6 [mm]	
	. ,												. ,			H
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76	
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76	
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76	
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76	
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95	
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95	
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95	
	1	1	1	1	1	1	i	1	1	1	ľ	1	1	1	1	1

Rp [inch]	L7 [mm]	М	Z [mm]	z1 [mm]	
3/8	48	6	86	43	
1/2	48	6	84	42	
3/4	48	6	99	50	
1	48	6	112	56	
1 1/4	59	8	132	66	
1 1/2	59	8	153	77	
2	59	8	196	98	









PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port Without manual override With socket fusion spigots metric

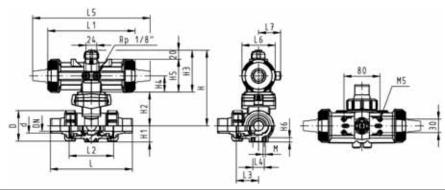
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the basic position
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

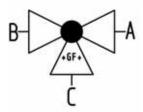
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	140	199 286 042	199 286 052	1.035
20	15	10	200	199 286 043	199 286 053	1.041
25	20	10	470	199 286 044	199 286 054	1.134
32	25	10	793	199 286 045	199 286 055	1.261
40	32	10	1290	199 286 046	199 286 056	2.224
50	40	10	1910	199 286 047	199 286 057	2.541
63	50	10	3100	199 286 048	199 286 058	3.473

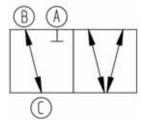
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8









PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port Without manual override With butt fusion spigots IR-Plus SDR11 metric

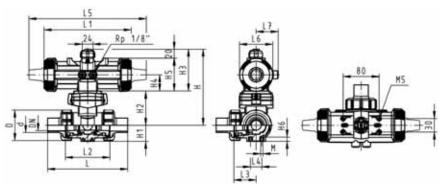
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the basic position
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

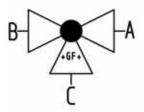
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	200	199 286 103	199 286 113	1.041
25	20	10	470	199 286 104	199 286 114	1.134
32	25	10	793	199 286 105	199 286 115	1.261
40	32	10	1290	199 286 106	199 286 116	2.224
50	40	10	1910	199 286 107	199 286 117	2.541
63	50	10	3100	199 286 108	199 286 118	3.473

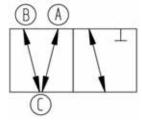
d	D	Н	H1	H2	Н3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
20	48	6
25	48	6
25 32	48	6
40	59	8
50	59	8
63	59	8









PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port DA (Double acting) Without manual override With fusion sockets metric

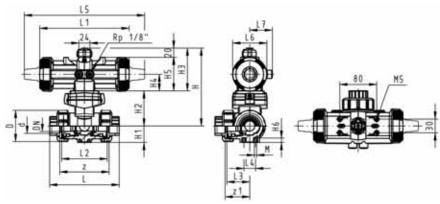
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

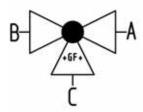
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	140	199 286 222	199 286 232	0.840
20	15	10	200	199 286 223	199 286 233	0.844
25	20	10	470	199 286 224	199 286 234	0.934
32	25	10	793	199 286 225	199 286 235	1.055
40	32	10	1290	199 286 226	199 286 236	1.786
50	40	10	1910	199 286 227	199 286 237	2.075
63	50	10	3100	199 286 228	199 286 238	2.967

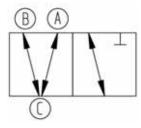
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d	L7	М	z	z1
[mm]	[mm]		[mm]	[mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94









PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port DA (Double acting) Without manual override With threaded sockets reinforced Rp

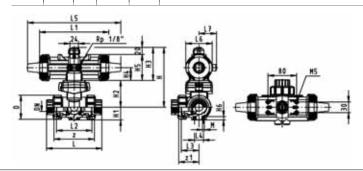
Model:

- · Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- · For easy installation and removal
- · Integrated stainless steel mounting inserts

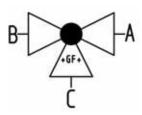
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3/8	10	10	140	199 286 302	199 286 312	0.840
1/2	15	10	200	199 286 303	199 286 313	0.844
3/4	20	10	470	199 286 304	199 286 314	0.934
1	25	10	793	199 286 305	199 286 315	1.055
1 1/4	32	10	1290	199 286 306	199 286 316	1.786
1 ½	40	10	1910	199 286 307	199 286 317	2.075
2	50	10	3100	199 286 308	199 286 318	2.967

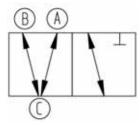
Rp	D	Н	H1	H2	Н3	H4	H5	Н6	L	L1	L2	L3	L4	L5	L6
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 ½	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

Rp [inch]	L7 [mm]	M	Z [mm]	z1 [mm]	
3/8	48	6	86	43	
1/2	48	6	84	42	
3/4	48	6	99	50	
1	48	6	112	56	
1 1/4	59	8	132	66	
1 1/2	59	8	153	77	
2	59	8	196	98	









PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port DA (Double acting) Without manual override With socket fusion spigots metric

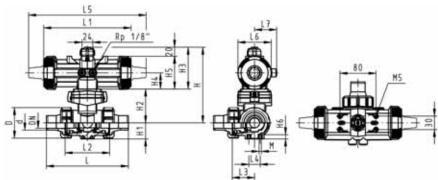
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- · Integrated stainless steel mounting inserts

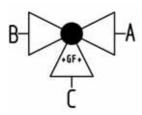
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [//min]	EPDM Code	FPM Code	kg
16	10	10	140	199 286 202	199 286 212	0.844
20	15	10	200	199 286 203	199 286 213	0.850
25	20	10	470	199 286 204	199 286 214	0.943
32	25	10	793	199 286 205	199 286 215	1.071
40	32	10	1290	199 286 206	199 286 216	1.800
50	40	10	1910	199 286 207	199 286 217	2.117
63	50	10	3100	199 286 208	199 286 218	3.049

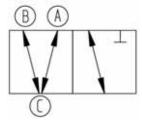
20 50 159 28 62 97 40 77 8 136 194 72 36 25 261 25 58 168 32 71 97 40 77 8 159 194 85 43 25 261 32 68 168 36 71 97 40 77 8 178 194 98 49 25 261 40 84 203 45 84 119 51 99 9 204 224 118 59 45 305 50 97 203 51 84 119 51 99 9 237 224 135 68 45 305		_	1.7	l				l		L [mm]					-	L6 [mm]	
25 58 168 32 71 97 40 77 8 159 194 85 43 25 261 32 68 168 36 71 97 40 77 8 178 194 98 49 25 261 40 84 203 45 84 119 51 99 9 204 224 118 59 45 305 50 97 203 51 84 119 51 99 9 237 224 135 68 45 305	16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76	
32 68 168 36 71 97 40 77 8 178 194 98 49 25 261 40 84 203 45 84 119 51 99 9 204 224 118 59 45 305 50 97 203 51 84 119 51 99 9 237 224 135 68 45 305	20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76	
40 84 203 45 84 119 51 99 9 204 224 118 59 45 305 50 97 203 51 84 119 51 99 9 237 224 135 68 45 305	25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76	
50 97 203 51 84 119 51 99 9 237 224 135 68 45 305	32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76	
	40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95	
63 124 225 65 106 119 51 99 9 296 224 176 88 45 305	50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95	
	63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95	

d [mm]	L7 [mm]	M
16 20	48 48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8









PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port DA (Double acting) Without manual override With butt fusion spigots IR-Plus SDR11 metric

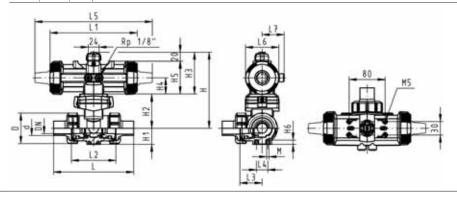
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

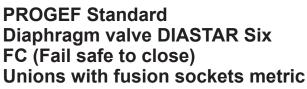
0			J		
DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
15	10	200	199 286 263	199 286 273	0.850
20	10	470	199 286 264	199 286 274	0.943
25	10	793	199 286 265	199 286 275	1.071
32	10	1290	199 286 266	199 286 276	1.800
40	10	1910	199 286 267	199 286 277	2.117
50	10	3100	199 286 268	199 286 278	3.049
	15 20 25 32 40	[mm] 15 10 20 10 25 10 32 10 40 10	[mm] (Δp=1 bar) [l/min] 15 10 200 20 10 470 25 10 793 32 10 1290 40 10 1910	[mm] (Δp=1 bar) Code 15 10 200 199 286 263 20 10 470 199 286 264 25 10 793 199 286 265 32 10 1290 199 286 266 40 10 1910 199 286 267	[mm] (Δp=1 bar) Code Code 15 10 200 199 286 263 199 286 273 20 10 470 199 286 264 199 286 274 25 10 793 199 286 265 199 286 275 32 10 1290 199 286 266 199 286 276 40 10 1910 199 286 267 199 286 277

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95
00	124	223	0.5	100	113	31	33	9	230	224	170	00	43	000	

d	L7	M	
[mm]	[mm]		
20	48	6	
25	48	6	
32	48	6	
40	59	8	
50	59	8	
63	59	8	



Diaphragm valves pneumatic New generation





- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

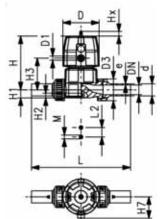
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg	
20	15	6	125	167 614 012	0.529	
25	20	6	271	167 614 013	0.974	i
32	25	6	481	167 614 014	1.180	i
40	32	6	759	167 614 015	1.949	
50	40	6	960	167 614 016	2.450	
63	50	6	1181	167 614 017	3.153	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	43	M6	100	7
25	96	1/8	150	25	132	18	12	73	57	M6	118	10
32	96	1/8	162	25	143	22	12	84	57	M6	126	13
40	120	1/8	184	45	173	26	15	99	69	M8	144	14
50	120	1/8	210	45	193	32	15	119	69	M8	164	16
63	120	1/8	248	45	205	39	15	132	69	M8	194	16





PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) Unions with butt fusion spigots SDR11 metric

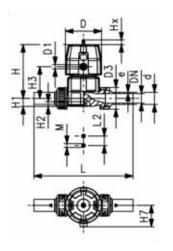
Model:

- Material: PP-H
- · Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- · Short overall length

Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg
20	15	6	125	167 614 112	0.537
25	20	6	271	167 614 113	0.871
32	25	6	481	167 614 114	1.589
40	32	6	759	167 614 115	1.805
50	40	6	960	167 614 116	2.279
63	50	6	1181	167 614 117	3.421



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	196	25	101	14	12	60	43	M6	7	1.9
25	96	1/8	221	25	132	18	12	73	57	M6	10	2.3
32	96	1/8	234	25	143	22	12	84	57	M6	13	2.9
40	120	1/8	260	45	173	26	15	99	69	M8	14	3.7
50	120	1/8	284	45	193	32	15	119	69	M8	16	4.6
63	120	1/8	321	45	205	39	15	132	69	M8	16	5.8



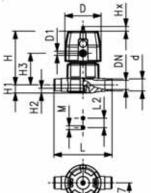
PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With socket fusion spigots metric

Model:

- · Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

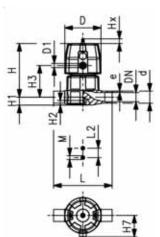
• Individual configuration of the valve (see diagram)



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg
20	15	6	125	167 615 012	0.466
25	20	6	271	167 615 013	0.903
32	25	6	481	167 615 014	1.054
40	32	6	759	167 615 015	1.747
50	40	6	960	167 615 016	2.207
63	50	6	1181	167 615 017	2.981

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	М	Lift = Hx [mm]	e [mm]
20	68	1/8	124	25	101	14	12	60	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	57	M6	10	2.3
32	96	1/8	154	25	143	22	12	84	57	M6	13	2.9
40	120	1/8	174	45	173	26	15	99	69	M8	14	3.7
50	120	1/8	194	45	193	32	15	119	69	M8	16	4.6
63	120	1/8	224	45	205	39	15	132	69	M8	16	5.8





PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- · Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Rotating air connection at 90° intervals

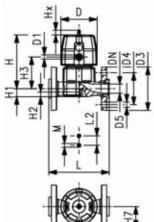
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg
20	15	6	125	167 615 112	0.465
25	20	6	271	167 615 113	0.899
32	25	6	481	167 615 114	1.062
40	32	6	759	167 615 115	1.743
50	40	6	960	167 615 116	2.202
63	50	6	1181	167 615 117	2.978

d D D1_G L [mm] [mm] H1 H2 H3 H7 M Lift = e [mm] [mm] [mm] [mm] H7 M Lift = e [mm]
20 68 1/8 124 25 101 14 12 60 43 M6 7 1.9
25 96 1/8 144 25 132 18 12 73 57 M6 10 2.3
32 96 1/ ₈ 154 25 143 22 12 84 57 M6 13 2.9
40 120 1/8 174 45 173 26 15 99 69 M8 14 3.7
50 120 1/8 194 45 193 32 15 119 69 M8 16 4.6
63 120 1/8 224 45 205 39 15 132 69 M8 16 5.8





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PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With backing flanges PP-V metric/BS

Model:

- Material: PP-H
- · Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- · Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

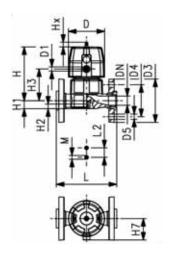
Option:

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg
20	15	6	125	167 617 112	0.648
25	20	6	271	167 617 113	1.148
32	25	6	481	167 617 114	1.410
40	32	6	759	167 617 115	2.279
50	40	6	960	167 617 116	2.751
63	50	6	1181	167 617 117	3.921

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	95	65	14	130	25	101	14	12	60	43	M6	7	
25	96	1/8	105	75	14	150	25	132	18	12	73	57	M6	10	
32	96	1/8	115	85	14	160	25	143	22	12	84	69	M6	13	l

table continued next page



d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	
40	120	1/6	140	100	18	180	45	173	26	15	99	69	M8	14	
50	120	1/6	150	110	18	200	45	193	32	15	119	69	M8	16	
63	120	1/6	165	125	18	230	45	205	39	15	132	69	M8	16	



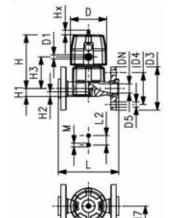
PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With backing flanges PP-V Inch ANSI

Model:

- · Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759



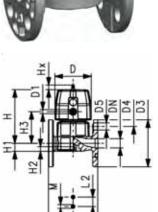
• Individual configuration of the valve (see diagram)



Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg
1/2	15	6	125	167 617 712	0.648
3/4	20	6	271	167 617 713	1.148
1	25	6	481	167 617 714	1.410
1 1/4	32	6	759	167 617 715	2.279
1 1/2	40	6	960	167 617 716	2.751
2	50	6	1181	167 617 717	3.921

Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]
1/2	68	1/8	95	60	16	130	25	101	14	12	60	43	M6	7
3/4	96	1/8	105	70	16	150	25	132	18	12	73	57	M6	10
1	96	1/8	115	79	16	160	25	143	22	12	84	69	M6	13
1 1/4	120	1/8	140	89	16	180	45	173	26	15	99	69	M8	14
1 ½	120	1/8	150	98	16	200	45	193	32	15	119	69	M8	16
2	120	1/8	165	121	19	230	45	205	39	15	132	69	M8	16





PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With fixed flanges PP-H JIS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

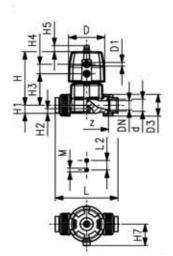
Option:

• Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg
1/2	15	6	125	167 617 912	0.593
3/4	20	6	271	167 617 913	1.023
1	25	6	481	167 617 914	1.263
1 1/4	32	6	759	167 617 915	2.082
1 1/2	40	6	960	167 617 916	2.570
2	50	6	1181	167 617 917	3.432

	_	D4 0												
Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]
1/2	68	1/8	95	70	15	110	25	101	14	12	60	43	M6	7
3/4	96	1/8	100	75	15	120	25	132	18	12	73	57	M6	10
1	96	1/8	125	90	19	130	25	143	22	12	84	69	M6	13
1 1/4	120	1/8	135	100	19	180	45	173	26	15	99	69	M8	14
1 1/2	120	1/8	140	105	19	180	45	193	32	15	119	69	M8	16
2	120	1/8	155	120	19	210	45	205	39	15	132	69	M8	16





PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) Unions with fusion sockets metric

Model:

- · Material: PP-H
- · Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- · For easy installation and removal
- · Short overall length

Option:

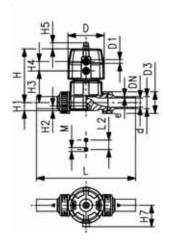
- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 624 012	167 624 032	0.526	
25	20	10/10*	271	167 624 013	167 624 033	1.071	
32	25	10/10*	481	167 624 014	167 624 034	1.286	
40	32	10/10*	759	167 624 015	167 624 035	2.152	
50	40	10/10*	1263	167 624 016	167 624 036	3.623	
63	50	10/6*	1728	167 624 017	167 624 037	5.032	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Z [mm]	Lift = Hx [mm]	
20	68	1/8	128	25	101	14	1	60	24	16		M6	100	7	
25 32	96 96	1/8 1/8	150 162	25 25	132 143	18 22	12 12	73 84	25 25	16 16	57 57	M6 M6	118 126	10 13	
40	120	1/8	184	45	173	26	15	99	26	26	69	M8	144	15	
50	150	1/4	210	45	214	32	15	119	36	26	88	M8	164	19	
63	150	1/4	248	45	226	39	15	132	36	26	88	M8	194	23	





PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) Unions with butt fusion spigots SDR11 metric

Model:

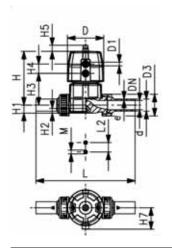
- Material: PP-H
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Rotating air connection at 90° intervals
- · For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 624 112	167 624 132	0.533	
25	20	10/10*	271	167 624 113	167 624 133	0.971	
32	25	10/10*	481	167 624 114	167 624 134	1.698	
40	32	10/10*	759	167 624 115	167 624 135	2.682	
50	40	10/10*	1263	167 624 116	167 624 136	4.378	
63	50	10/6*	1728	167 624 117	167 624 137	4.076	



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9	
25 32	96 96	1/8 1/8	221 234	25 25	132 143	18 22	12 12	73 84	25 25	16 16	57 57	M6 M6	10 13	2.3 2.9	
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	3.7	
50 63	150 150	1/4 1/4	284 321	45 45	214 226	32 39	15 15	119 132	36 36	26 26	88 88	M8 M8	19 23	4.6 5.8	



PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With socket fusion spigots metric

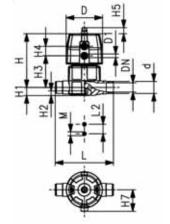
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

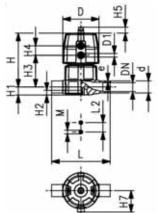
Working Pressure: one side



	•						
d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 625 012	167 625 032	0.502	
25	20	10/10*	271	167 625 013	167 625 033	0.990	
32	25	10/10*	481	167 625 014	167 625 034	1.156	
40	32	10/10*	759	167 625 015	167 625 035	1.917	
50	40	10/10*	1263	167 625 016	167 625 036	3.375	
63	50	10/6*	1728	167 625 017	167 625 037	4.054	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8	





PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With butt fusion spigots SDR11 metric

Model:

- · Material: PP-H
- · Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available

Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	15	10/10*	125	167 625 112	167 625 132	0.501
25	20	10/10*	271	167 625 113	167 625 133	0.986
32	25	10/10*	481	167 625 114	167 625 134	1.154
40	32	10/10*	759	167 625 115	167 625 135	1.913
50	40	10/10*	1263	167 625 116	167 625 136	3.370
63	50	10/6*	1728	167 625 117	167 625 137	3.927

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	





PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With backing flanges PP-V metric/BS

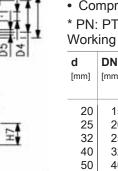
Model:

- Material: PP-H
- · Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

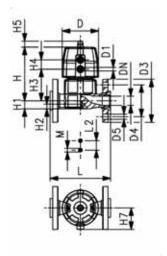


- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side



****	ung i	ressure	. One side				
d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar)	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 627 112	167 627 132	0.684	
25	20	10/10*	271	167 627 113	167 627 133	1.234	
32	25	10/10*	481	167 627 114	167 627 134	1.526	
40	32	10/10*	759	167 627 115	167 627 135	2.562	
50	40	10/10*	1263	167 627 116	167 627 136	3.919	
63	50	10/6*	1728	167 627 117	167 627 137	4.952	



d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	М
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	69	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	193	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	205	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23



PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With backing flanges PP-V Inch ANSI

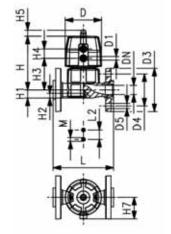
Model:

- Material: PP-H
- · Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side



. -		PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/10*	125	167 627 712	167 627 732	0.684	
3/4	20	10/10*	271	167 627 713	167 627 733	1.234	
1	25	10/10*	481	167 627 714	167 627 734	1.502	
1/4	32	10/10*	759	167 627 715	167 627 735	2.449	
1/2	40	10/10*	1263	167 627 716	167 627 736	3.919	
2	50	10/6*	1728	167 627 717	167 627 737	4.870	
	1/2 3/4 1 1/4 1/2	[mm] 1/2 15 3/4 20 1 25 1/4 32 1/2 40	[mm] [bar] 1/2 15 10/10* 3/4 20 10/10* 1 25 10/10* 1/4 32 10/10* 1/2 40 10/10*	[mm] [bar] (Δp=1 bar) [l/min] 1/2 15 10/10* 125 3/4 20 10/10* 271 1 25 10/10* 481 1/4 32 10/10* 759 1/2 40 10/10* 1263	[mm] [bar] (Δp=1 bar) Code [l/min] 1/2 15 10/10* 3/4 20 10/10* 1 25 10/10* 1 481 167 627 712 1 32 10/10* 1/4 32 10/10* 1/5 40 10/10* 1263 167 627 716	[mm] [bar] (Δp=1 bar) Code Code 1/2 15 10/10* 125 167 627 712 167 627 732 3/4 20 10/10* 271 167 627 713 167 627 733 1 25 10/10* 481 167 627 714 167 627 734 1/4 32 10/10* 759 167 627 715 167 627 735 1/2 40 10/10* 1263 167 627 716 167 627 736	[mm] [bar] (Δp=1 bar) Code Code ½ 15 10/10*

Inch	D	D1_G	D3	D4	D5	L	L2	Н	H1	H2	Н3	H4	H5	H7	M
	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
1/2	68	1/8	95	60	16	130	25	101	14	12	60	24	16	43	M6
3/4	96	1/8	105	70	16	150	25	132	18	12	73	25	16	57	M6
1	96	1/8	115	79	16	160	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	140	89	16	180	45	173	26	15	99	26	26	69	M8
1 1/2	150	1/4	150	98	16	200	45	193	32	15	119	36	26	88	M8
2	150	1/4	165	121	19	230	45	205	39	15	132	36	26	88	M8

Inch	Lift = Hx [mm]							
1/ ₂ 3/ ₄ 1 1 1/ ₄ 1 1/ ₂ 2	7 10 13 15 19 23							



PROGEF Standard Diaphragm valve type DIASTAR Series 025 FC (Fail safe to close) With fixed flanges PP metric

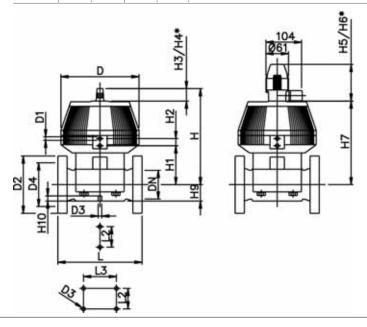
Model:

- Material: PP-H
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: one side
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

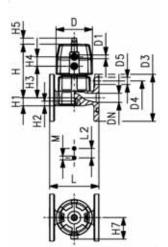
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
* 75	65	2 ½	10	992	199 025 267	199 025 297	14.715
** 90	80	3	10	1700	199 025 268	199 025 298	16.162
110	100	4	6	2700	199 025 269	199 025 299	24.700
** 160	150	6	6	6033	199 025 270	-	35.000

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	1/4	185	8	145	290	70		344	148	24	46	100	129
** 90	280	1/4	200	12	160	310	120		348	150	24	46	100	129
110	335	1/4	225	12	180	350	120		395	176	24	46	100	129
** 160	335	1/4	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20







PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With fixed flanges PP-H JIS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Connecting dimension: JIS B2238/39 10K
- Flat sealing faces/serrated

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

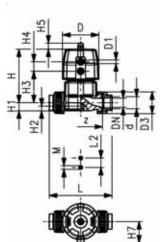
Working Pressure: one side

Inch	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/10*	125	167 627 912	167 627 932	0.628	
3/4	20	10/10*	271	167 627 913	167 627 933	1.108	
1	25	10/10*	481	167 627 914	167 627 934	1.354	
1 1/4	32	10/10*	759	167 627 915	167 627 935	2.251	
1 1/2	40	10/10*	1263	167 627 916	167 627 936	3.737	
2	50	10/6*	1728	167 627 917	167 627 937	4.380	

Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
1/2	68	1/8	95	70	15	110	25	101	14	12	60	24	16	43	M6
3/4	96	1/8	100	75	15	120	25	132	18	12	73	25	16	57	M6
1	96	1/8	125	90	19	130	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	135	100	19	180	45	173	26	15	99	26	26	69	M8
1 ½	150	1/4	140	105	19	180	45	193	32	15	119	36	26	88	M8
2	150	1/4	155	120	19	210	45	205	39	15	132	36	26	88	M8

Inch Lift = Hx [mm] 1/2 7
3/4 10
1 13
1 1/4 15
1 ½ 19
2 23





PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) Unions with fusion sockets metric

Model:

- · Material: PP-H
- · Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- · For easy installation and removal
- · Short overall length

Option:

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 644 012	167 644 032	0.515	
25	20	10/10*	271	167 644 013	167 644 033	0.919	
32	25	10/10*	481	167 644 014	167 644 034	1.079	
40	32	10/10*	759	167 644 015	167 644 035	1.726	
50	40	10/10*	1263	167 644 016	167 644 036	3.533	
63	50	10/10*	1728	167 644 017	167 644 037	4.266	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Z [mm]	Lift = Hx [mm]	
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	100	7	
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	118	10	
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	126	13	
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	144	15	
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	164	19	
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	194	23	





PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) Unions with butt fusion spigots SDR11 metric

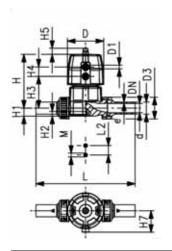
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Rotating air connection at 90° intervals
- · For easy installation and removal
- Short overall length

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

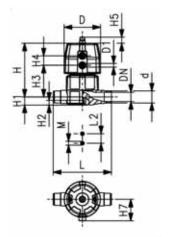
Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 644 112	167 644 132	0.510	
25	20	10/10*	271	167 644 113	167 644 133	0.931	
32	25	10/10*	481	167 644 114	167 644 134	1.482	
40	32	10/10*	759	167 644 115	167 644 135	1.647	
50	40	10/10*	1263	167 644 116	167 644 136	3.541	
63	50	10/10*	1728	167 644 117	167 644 137	3.426	



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	2.3	
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.9	
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	284	45	214	32	15	119	36	26	69	M8	19	4.6	
63	150	1/4	321	45	226	39	15	132	36	26	69	M8	23	5.8	





PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With socket fusion spigots metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

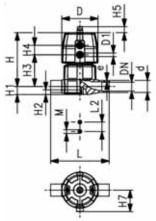
- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 645 012	167 645 032	0.452	
25	20	10/10*	271	167 645 013	167 645 033	0.816	
32	25	10/10*	481	167 645 014	167 645 034	0.976	
40	32	10/10*	759	167 645 015	167 645 035	1.557	
50	40	10/10*	1263	167 645 016	167 645 036	3.285	
63	50	10/10*	1728	167 645 017	167 645 037	3.840	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8	





PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- · Double flow rate compared to predecessor
- One housing nut replaces four screws
- · Rotating air connection at 90° intervals

1/8

1/8

1/8

1/8

1/4

1/4

43 M6

57 M6

69 M8

88 M8

88 M8

M6

1.9

2.3

2.9

3.7

4.6

5.8

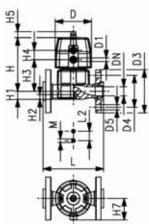
Option:

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

DN [mm]	PN* [bar]		1 bar)					PDM	kg				
15	10/10*		125	167	645 1	12	167 64	5 132	0.4	151			
20	10/10*		271	167	645 1	13	167 64	5 133	0.8	312			
25	10/10*		481	167	645 1	14	167 64	5 134	0.9	974			
32	10/10*		759	167	645 1	15	167 64	5 135	1.5	553			
40	10/10*		1263	167	645 1	16	167 64	5 136	3.2	280			
50	10/10*		1728	167	645 1	17	167 64	5 137	3.8	337			
D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift =	e [mm]
_	15 20 25 32 40 50	[mm] [bar] 15 10/10* 20 10/10* 25 10/10* 32 10/10* 40 10/10* 50 10/10* D D1_G	[mm] [bar] (Ap= [l/min] 15 10/10* 20 10/10* 25 10/10* 32 10/10* 40 10/10* 50 10/10* D D1_G L	[mm] [bar] (Δp=1 bar) 15 10/10* 125 20 10/10* 271 25 10/10* 481 32 10/10* 759 40 10/10* 1263 50 10/10* 1728 D D1_G L L2	[mm] [bar] (Δp=1 bar) Cod 15 10/10* 125 167 20 10/10* 271 167 25 10/10* 481 167 32 10/10* 759 167 40 10/10* 1263 167 50 10/10* 1728 167 D D1_G L L2 H	[mm] [bar] (Δp=1 bar) Code 15 10/10* 125 167 645 1 20 10/10* 271 167 645 1 25 10/10* 481 167 645 1 32 10/10* 759 167 645 1 40 10/10* 1263 167 645 1 50 10/10* 1728 167 645 1	[mm] [bar] (Δp=1 bar) Code 15 10/10* 125 167 645 112 20 10/10* 271 167 645 113 25 10/10* 481 167 645 114 32 10/10* 759 167 645 115 40 10/10* 1263 167 645 116 50 10/10* 1728 167 645 117 D D1_G L L2 H H1 H2	[mm] [bar] (Δp=1 bar) Code Code 15 10/10* 125 167 645 112 167 645 20 10/10* 271 167 645 113 167 645 25 10/10* 481 167 645 114 167 645 32 10/10* 759 167 645 115 167 645 40 10/10* 1263 167 645 116 167 645 50 10/10* 1728 167 645 117 167 645 D D1_G L L2 H H1 H2 H3	[mm] [bar] (Δp=1 bar) Code Code 15 10/10* 125 167 645 112 167 645 132 20 10/10* 271 167 645 113 167 645 133 25 10/10* 481 167 645 114 167 645 134 32 10/10* 759 167 645 115 167 645 135 40 10/10* 1263 167 645 116 167 645 136 50 10/10* 1728 167 645 117 167 645 137 D D1_G L L2 H H1 H2 H3 H4	[mm] [bar] (Δp=1 bar) Code Code 15 10/10* 125 167 645 112 167 645 132 0.4 20 10/10* 271 167 645 113 167 645 133 0.8 25 10/10* 481 167 645 114 167 645 134 0.9 32 10/10* 759 167 645 115 167 645 135 1.5 40 10/10* 1263 167 645 116 167 645 136 3.2 50 10/10* 1728 167 645 117 167 645 137 3.8 D D1_G L L2 H H1 H2 H3 H4 H5	[mm] [bar] (Δp=1 bar) Code Code 15 10/10* 125 167 645 112 167 645 132 0.451 20 10/10* 271 167 645 113 167 645 133 0.812 25 10/10* 481 167 645 114 167 645 134 0.974 32 10/10* 759 167 645 115 167 645 135 1.553 40 10/10* 1263 167 645 116 167 645 136 3.280 50 10/10* 1728 167 645 117 167 645 137 3.837 D D1_G L L2 H H1 H2 H3 H4 H5 H7	[mm] [bar] (Δp=1 bar) Code Code 15 10/10* 125 167 645 112 167 645 132 0.451 20 10/10* 271 167 645 113 167 645 133 0.812 25 10/10* 481 167 645 114 167 645 134 0.974 32 10/10* 759 167 645 115 167 645 135 1.553 40 10/10* 1263 167 645 116 167 645 136 3.280 50 10/10* 1728 167 645 117 167 645 137 3.837 D D1_G L L2 H H1 H2 H3 H4 H5 H7 M	[mm] [bar] (Δp=1 bar) Code Code 15 10/10* 125 167 645 112 167 645 132 0.451 20 10/10* 271 167 645 113 167 645 133 0.812 25 10/10* 481 167 645 114 167 645 134 0.974 32 10/10* 759 167 645 115 167 645 135 1.553 40 10/10* 1263 167 645 116 167 645 136 3.280 50 10/10* 1728 167 645 117 167 645 137 3.837 D D1_G L L2 H H1 H2 H3 H4 H5 H7 M Lift =





PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With backing flanges PP-V metric/BS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

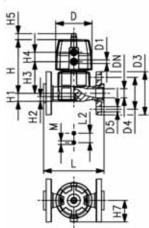
Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 647 112	167 647 132	0.634	
25	20	10/10*	271	167 647 113	167 647 133	1.060	
32	25	10/10*	481	167 647 114	167 647 134	1.322	
40	32	10/10*	759	167 647 115	167 647 135	2.089	
50	40	10/10*	1263	167 647 116	167 647 136	3.829	
63	50	10/10*	1728	167 647 117	167 647 137	4.780	

d	D	D1_G	D3	D4	D5	L	L2	Н	H1	H2	Н3	H4	H5	H7	M	
[mm]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	57	M6	
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6	
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	69	M6	
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	88	M8	
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	103	M8	
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	103	M8	

d [mm]	Lift = Hx [mm]
20	7
25	10
32 40	13 15
50	19
63	23





PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

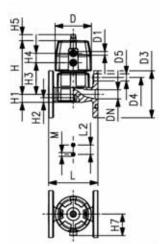
Working Pressure: one side

Inch	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/10*	125	167 647 712	167 647 732	0.634	
3/4	20	10/10*	271	167 647 713	167 647 733	1.060	
1	25	10/10*	481	167 647 714	167 647 734	1.322	
1 1/4	32	10/10*	759	167 647 715	167 647 735	2.089	
1 1/2	40	10/10*	1263	167 647 716	167 647 736	3.829	
2	50	10/10*	1728	167 647 717	167 647 737	4.780	

Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	М
1/2	68	1/8	95	60	16	130	25	101	14	12	60	24	16	57	M6
3/4	96	1/8	105	70	16	150	25	132	18	12	73	25	16	57	M6
1	96	1/8	115	79	16	160	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	140	89	16	180	45	173	26	15	99	26	26	88	M8
1 1/2	150	1/4	150	98	16	200	45	214	32	15	119	36	26	103	M8
2	150	1/4	165	121	19	230	45	226	39	15	132	36	26	103	M8

Inch	Lift = Hx [mm]
1/2	7
3/4	10
1	13
1 1/4	15
1 ½	19
2	23





PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With fixed flanges PP-H JIS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

Inch	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/10*	125	167 647 912	167 647 932	0.578	
3/4	20	10/10*	271	167 647 913	167 647 933	0.934	
1	25	10/10*	481	167 647 914	167 647 934	1.174	
1 1/4	32	10/10*	759	167 647 915	167 647 935	1.891	
1 1/2	40	10/10*	1263	167 647 916	167 647 936	3.647	
2	50	10/10*	1728	167 647 917	167 647 937	4.290	

Inch	D	D1_G	D3	D4	D5	L	L2	Н	H1	H2	Н3	H4	H5	H7	M
	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
1/2	68	1/8	95	70	15	110	25	101	14	12	60	24	16	57	M6
3/4	96	1/8	100	75	15	120	25	132	18	12	73	25	16	57	M6
1	96	1/8	125	90	19	130	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	135	100	19	180	45	173	26	15	99	26	26	88	M8
1 ½	150	1/4	140	105	19	180	45	214	32	15	119	36	26	103	M8
2	150	1/4	155	120	19	210	45	226	39	15	132	36	26	103	M8

Inch	Lift = Hx [mm]
1/2	7
3/4	10
1	13
1 1/4	
1 ½	19
2	23



PROGEF Standard Diaphragm valve type DIASTAR Series 025 FO (Fail safe to open) With fixed flanges PP metric

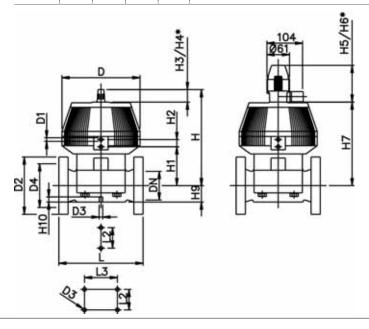
Model:

- · Material: PP-H
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: one side
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

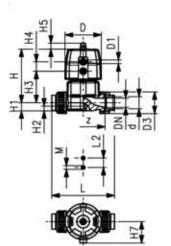
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
* 75	65	2 ½	10	992	199 025 277	199 025 307	13.600
** 90	80	3	10	1700	199 025 278	199 025 308	17.400
110	100	4	6	2700	199 025 279	199 025 309	24.700
** 160	150	6	6	6033	199 025 280	199 025 310	35.000

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	1/4	185	8	145	290	70		344	148	24	46	100	129
** 90	280	1/4	200	12	160	310	120		348	150	24	46	100	129
110	335	1/4	225	12	180	350	120		395	176	24	46	100	129
** 160	335	1/4	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20







PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) Unions with fusion sockets metric

Model:

- · Material: PP-H
- · Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Rotating air connection at 90° intervals
- · For easy installation and removal
- · Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (∆p=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 654 012	167 654 032	0.499	
25	20	10/10*	271	167 654 013	167 654 033	0.883	
32	25	10/10*	481	167 654 014	167 654 034	1.077	
40	32	10/10*	759	167 654 015	167 654 035	1.666	
50	40	10/10*	1263	167 654 016	167 654 036	2.783	
63	50	10/10*	1728	167 654 017	167 654 037	3.516	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	100	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	118	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	126	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	144	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	164	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	194	23



PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) Unions with butt fusion spigots SDR11 metric

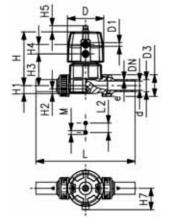
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Rotating air connection at 90° intervals
- · For easy installation and removal
- Short overall length

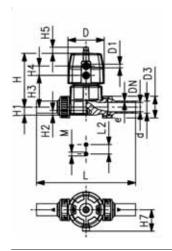
Option

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

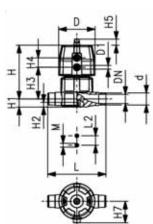


d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 654 112	167 654 132	0.507	
25	20	10/10*	271	167 654 113	167 654 133	0.895	
32	25	10/10*	481	167 654 114	167 654 134	1.097	
40	32	10/10*	759	167 654 115	167 654 135	1.698	
50	40	10/10*	1263	167 654 116	167 654 136	2.791	
63	50	10/10*	1728	167 654 117	167 654 137	3.530	



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	2.3
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.9
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	3.7
50	150	1/4	284	45	214	32	15	119	36	26	69	M8	19	4.6
63	150	1/4	321	45	226	39	15	132	36	26	69	M8	23	5.8





PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With socket fusion spigots metric

Model:

- · Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

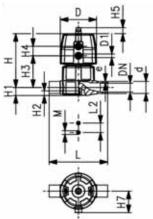
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 655 012	167 655 032	0.436	
25	20	10/10*	271	167 655 013	167 655 033	0.780	
32	25	10/10*	481	167 655 014	167 655 034	0.946	
40	32	10/10*	759	167 655 015	167 655 035	1.497	
50	40	10/10*	1263	167 655 016	167 655 036	2.535	
63	50	10/10*	1728	167 655 017	167 655 037	3.090	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23





PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

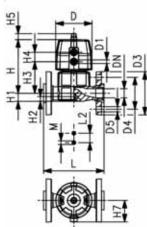
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

	9 .	. 0000.	J. U												
d [mm]	DN [mm]	PN* [bar]	kv-va (Δp=	alue 1 bar)	EPC Cod			PTFE/E Code	PDM	kg					
20	15	10/10*		125	167	655 1	12	167 65	5 132	0.4	35				
25	20	10/10*		271	167	655 1°	13	167 65	5 133	0.7	76				
32	25	10/10*		481	167	655 1°	14	167 65	5 134	0.9)44				
40	32	10/10*		759	167	655 1°	15	167 65	5 135	1.4	93				
50	40	10/10*		1263	167	655 1°	16	167 65	5 136	2.5	30				
63	50	10/10*		1728	167	655 1	17	167 65	5 137	3.0	87				
d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift =	e [mm]	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8	





PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With backing flanges PP-V metric/BS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

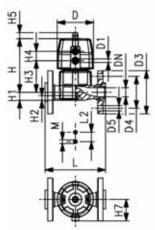
Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	125	167 657 112	167 657 132	0.618	
25	20	10/10*	271	167 657 113	167 657 133	1.024	
32	25	10/10*	481	167 657 114	167 657 134	1.292	
40	32	10/10*	759	167 657 115	167 657 135	2.029	
50	40	10/10*	1263	167 657 116	167 657 136	3.079	
63	50	10/10*	1728	167 657 117	167 657 137	4.030	

d	D	D1_G	D3	D4	D5	L	L2	Н	H1	H2	Н3	H4	H5	H7	М
[mm]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	57	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	69	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	88	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	103	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	103	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23





PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

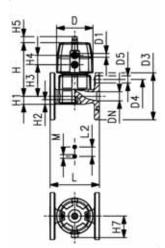
Working Pressure: one side

Inch	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/10*	125	167 657 712	167 657 732	0.618	
3/4	20	10/10*	271	167 657 713	167 657 733	1.024	
1	25	10/10*	481	167 657 714	167 657 734	1.292	
1 1/4	32	10/10*	759	167 657 715	167 657 735	2.029	
1 ½	40	10/10*	1263	167 657 716	167 657 736	3.079	
2	50	10/10*	1728	167 657 717	167 657 737	4.030	

Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	М
1/2	68	1/8	95	60	16	130	25	101	14	12	60	24	16	57	M6
3/4	96	1/8	105	70	16	150	25	132	18	12	73	25	16	57	M6
1	96	1/8	115	79	16	160	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	140	89	16	180	45	173	26	15	99	26	26	88	M8
1 1/2	150	1/4	150	98	16	200	45	214	32	15	119	36	26	103	M8
2	150	1/4	165	121	19	230	45	226	39	15	132	36	26	103	M8

Inch	Lift = Hx [mm]
1/2	7
3/4	10
1	13
1 1/4	15
1 ½	19
2	23





PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With fixed flanges PP-H JIS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

Inch	DN [mm]	PN* [bar]	kv-value (∆p=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/10*	125	167 657 912	167 657 932	0.562	
3/4	20	10/10*	271	167 657 913	167 657 933	0.898	
1	25	10/10*	481	167 657 914	167 657 934	1.144	
1 1/4	32	10/10*	759	167 657 915	167 657 935	1.831	
1 1/2	40	10/10*	1263	167 657 916	167 657 936	2.897	
2	50	10/10*	1728	167 657 917	167 657 937	3.540	

Inch	D	D1_G	D3	D4	D5	L	L2	Н	H1	H2	Н3	H4	H5	H7	М
	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
1/2	68	1/8	95	70	15	110	25	101	14	12	60	24	16	57	M6
3/4	96	1/8	100	75	15	120	25	132	18	12	73	25	16	57	M6
1	96	1/8	125	90	19	130	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	135	100	19	180	45	173	26	15	99	26	26	88	M8
1 ½	150	1/4	140	105	19	180	45	214	32	15	119	36	26	103	M8
2	150	1/4	155	120	19	210	45	226	39	15	132	36	26	103	M8

Inch	Lift = Hx [mm]
1/2	7
3/4	10
1	13
1 1/4	15
1 ½	19
2	23



PROGEF Standard Diaphragm valve type DIASTAR Series 025 DA (Double acting) With fixed flanges PP metric

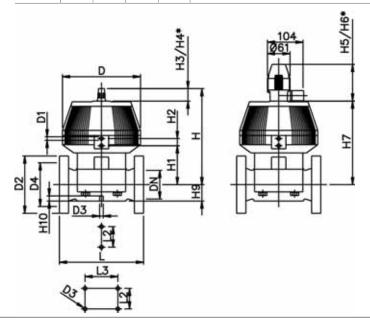
Model:

- Material: PP-H
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: one side
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 ba [l/min]	. '	EPDM Code		PTFE/E Code	PDM	kg				
* 75	65	2 ½	10	99	2	199 025 2	287	199 02	5 317	13.	600			
** 90	80	3	10	170	00	199 025 2	288	199 02	5 318	17.	400			
110	100	4	6	270	00	199 025 2	289	199 02	5 319	24.	700			
** 160	150	6	6	603	33	199 025 2	290	199 02	5 320	35.	000			
d	D	D1_G	D2	D3[M]	D4	L	L2	L3	Н	H1	H2	Н3	Н4	Н5

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	1/4	185	8	145				344	148	24	46	100	129
** 90 110	280 335	1/ ₄ 1/ ₄	200 225	12 12	160 180	310 350	120 120		348 395	150 176	24 24	46 46	100 100	129 129
** 160	335	1/4	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]	
* 75	195	298	46	15	
** 90	195	302	57	15	
110	195	349	69	20	
** 160	195	409	108	20	





PROGEF Standard Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) Unions with fusion sockets metric

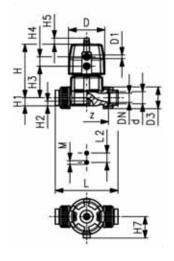
Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- · Short overall length
- For easy installation and removal

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

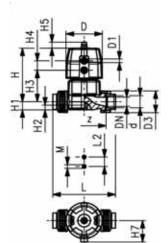
Working Pressure: both sides



VVOIK	ang P	ressure	e: boi	n sia	es										
d [mm]	DN [mm]	PN* [bar]	kv-va (Δp=	alue 1 bar)	Cod			FPM Code		PTF Cod	E/EPD e	M	PTFE/I Code	PM	
20	15	10/10*		125	167	684 0	12	167 684	4 062	167	684 03	2	167 68	4 052	
25	20	10/10*		271	167	684 0	13	167 684	4 063	167	684 03	3	167 68	4 053	
32	25	10/10*		481	167	684 0	14	167 684	4 064	167	684 03	4	167 68	4 054	
40	32	10/10*		759	167	684 0	15	167 684	4 065	167	684 03	55	167 68	4 055	
50	40	10/10*		1263	167	684 0	16	167 684	1 066	167	684 03	6	167 68	4 056	
63	50	10/10*		1728	167	684 0	17	167 684	4 067	167	684 03	37	167 68	4 057	
d	D	D1_G	L	L2	Н	H1	H2	Н3	H4	Н5	H7	M	z	Lift =	
[mm]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	Hx [mm]	

	30	10/10		1720	101	00+0	., .	07 00-	. 001	107	00- 00	'	107 00	+ 001
d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Z [mm]	Lift = Hx [mm]
20	96	1/8	128	25	127	14	12	68	25	16	57	M6	100	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	118	10
32	120	1/8	166	25	167	22	12	93	26	26	69	M6	126	13
40	150	1/4	192	45	196	26	15	101	36	26	88	M8	144	15
50	180	1/4	222	45	239	32	15	124	37	26	103	M8	164	19
63	180	1/4	266	45	251	39	15	137	37	26	103	M8	194	23





PROGEF Standard Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) Unions with fusion sockets PE80 metric

Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- Short overall length
- Double flow rate compared to predecessor
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

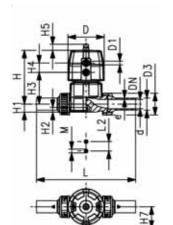
* PN: PTFE

Working Pressure: both sides

****	9 .	1000011	J. 100	0.0	00										
d [mm]	DN [mm]	PN* [bar]	kv-va (Δp=	1 bar)	EPD Cod		1 3	PTFE/E Code	PDM	kg					
20	15	10/10*		156	167	684 2	12	167 684	1 232	0.9	65				
25	20	10/10*		276	167	684 2	13	167 684	4 233	1.0	96				
32	25	10/10*		561	167	684 2	14	167 684	1 234	1.8	883				
40	32	10/10*		684	167	684 2	15	167 684	4 235	3.1	58				
50	40	10/10*		950	167	684 2	16	167 684	1 236	4.9	85				
63	50	10/10*		1425	167	684 2	17	167 684	1 237	5.6	83				
d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Z [mm]	Lift = Hx [mm]	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]	
20	1	1/8	128	25	127	14	12	68	25	16	57	M6	100	7	
25	96	1/8	150	25	132	18	12	73	25	16	57	M6	118	10	
32	120	1/8	162	25	167	22	12	93	26	26	69	M6	126	13	
40	150	1/4	184	45	196	26	15	101	36	26	88	M8	144	15	
50	180	1/4	210	45	239	32	15	124	37	26	103	M8	164	19	
63	180	1/4	248	45	251	39	15	137	37	26	103	M8	194	23	





PROGEF Standard Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) Unions with butt fusion spigots SDR11 metric

Model:

- · Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- · Short overall length
- · For easy installation and removal

Option:

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * DNI DTCC

	ing P	∟ ressure	e: bo t	h sid	es										
d [mm]	DN [mm]	PN* [bar]	kv-va (Δp=	alue 1 bar)	EPD		-	PM Code		PTF	E/EPD e		PTFE/FP Code	PM	
20	15	10/10*		125	167	684 1 ⁻	12 1	67 684	162	167	684 13	2	167 684	152	
25	20	10/10*		271	167	684 1°	13 1	67 684	163	167	684 13	3 /	167 684	153	
32	25	10/10*		481	167	684 1°	14 1	67 684	164	167	684 13	4	167 684	154	
40	32	10/10*		759	167	684 1°	15 1	67 684	165	167	684 13	5	167 684	155	
50	40	10/10*		1263	167	684 1°	16 1	67 684	166	167	684 13	6	167 684	156	
63	50	10/10*		1728	167	684 1	17 1	67 684	167	167	684 13	7	167 684	157	
d [mm]	D [mm]	D1_G	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift =	e [mm]	
[]	[]	[o]	[]	[]	[]	[]	[]	[]	[]	[]	[]		[mm]	[]	
20	96	1/8	196	25	127	14	12	68	25	16	57	M6	7	1.9	
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	2.3	
32	120	1/8	234	25	167	22	12	93	26	26	69	M6	13	2.9	
40	150	1/4	260	45	196	26	15	101	36	26	88	M8	15	3.7	

37

37

103

103 M8

M8

26

26

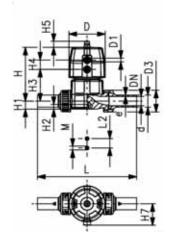
19

23

4.6

5.8





PROGEF Standard Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) Unions with butt fusion spigots PE100 SDR11 metric

32

39

15

15

124

137

Model: Material: PP-H

50

63

180

180

1/4

1/4 321

284

45

45

239

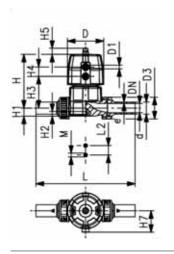
251

- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- Short overall length
- Double flow rate compared to predecessor
- · For easy installation and removal
- · Short overall length

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: both sides

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10/10*	156	167 684 312	167 684 332	0.975	
25	20	10/10*	276	167 684 313	167 684 333	1.108	
32	25	10/10*	561	167 684 314	167 684 334	1.907	



d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
40	32	10/10*	684	167 684 315	167 684 335	3.196	
50	40	10/10*	950	167 684 316	167 684 336	5.055	
63	50	10/10*	1425	167 684 317	167 684 337	5.793	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	96	1/8	196	25	127	14	12	68	25	16	57	M6	7	1.9
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	2.3
32	120	1/8	234	25	167	22	12	93	26	26	69	M6	13	3.0
40	150	1/4	260	45	196	26	15	101	36	26	88	M8	15	3.7
50	180	1/4	284	45	239	32	15	124	37	26	103	M8	19	4.6
63	180	1/4	321	45	251	39	15	137	37	26	103	M8	23	5.8



PROGEF Standard Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) With socket fusion spigots metric

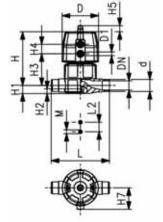
Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- Short overall length
- Double flow rate compared to predecessor
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

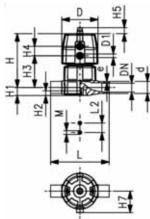
Working Pressure: both sides



	U						
d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20 25	15 20		125 271	167 685 012 167 685 013	167 685 032 167 685 033	0.902 0.990	
32	25	10/10*	481	167 685 014	167 685 034	1.750	
40 50	32 40	10/10* 10/10*	759 1263	167 685 015 167 685 016	167 685 035 167 685 036	2.987 4.650	
63	50	10/10*	1728	167 685 017	167 685 037	5.337	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13	2.9
40	150	1/4	174	45	196	26	15	101	36	26	88	M8	15	3.7
50	180	1/4	194	45	239	32	15	124	37	26	103	M8	19	4.6
63	180	1/4	224	45	251	39	15	137	37	26	103	M8	23	5.8





PROGEF Standard Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- · Short overall length
- Double flow rate compared to predecessor

Option:

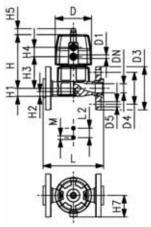
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: both sides

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	15	10/10*	125	167 685 112	167 685 132	0.901
25	20	10/10*	271	167 685 113	167 685 133	0.986
32	25	10/10*	481	167 685 114	167 685 134	1.748
40	32	10/10*	759	167 685 115	167 685 135	2.983
50	40	10/10*	1263	167 685 116	167 685 136	4.778
63	50	10/10*	1728	167 685 117	167 685 137	5.334

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13	2.9	
40	150	1/4	174	45	196	26	15	101	36	26	88	M8	15	3.7	
50	180	1/4	194	45	239	32	15	124	37	26	103	M8	19	4.6	
63	180	1/4	224	45	251	39	15	137	37	26	103	M8	23	5.8	





PROGEF Standard Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) With backing flanges PP-V metric/BS

Model:

- · Material: PP-H
- · One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- Short overall length
- Double flow rate compared to predecessor
- · Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

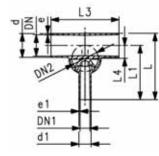
Working Pressure: both sides

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE/EPDM Code
20	15	10/10*	125	167 687 112	167 687 162	167 687 132
25	20	10/10*	271	167 687 113	167 687 163	167 687 133
32	25	10/10*	481	167 687 114	167 687 164	167 687 134
40	32	10/10*	759	167 687 115	167 687 165	167 687 135
50	40	10/10*	1263	167 687 116	167 687 166	167 687 136
63	50	10/10*	1728	167 687 117	167 687 167	167 687 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	96	1/8	95	65	14	130	25	127	14	12	68	25	16	57	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	120	1/8	115	85	14	160	25	167	22	12	93	26	26	69	M6
40	150	1/4	140	100	18	180	45	196	26	15	101	36	26	88	M8
50	180	1/4	150	110	18	200	45	239	32	15	124	37	26	103	M8
63	180	1/4	165	125	18	230	45	251	39	15	137	37	26	103	M8

m]	Lift = Hx [mm]
20	7
20 25	10
32	13
40	15
50	19
63	23





PROGEF Standard Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- · Short overall length
- Smallest possible dead space

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN· PTFF

	: PTF (ing P	E ressu	re: b c	th si	des									
d [mm]	d1 [mm]	Valve Size d					r]	kv-valu (∆p=1 l [l/min]	-	EPDM Code	I	PTFE	E/EPD	М
20 25 25 32 32 32 40 50	20 20 25 20 25 32 20 20 20 25	2 2 2 2 3 3 2	25 2 25 2 25 2 25 2 32 2 32 3	0 1 0 2 5 1 5 2 5 2 2 1 0 1	5 2 0 2 5 2 0 2 5 2 5 2 5 2 5 2 5 2	0 10 0 10 0 10 0 10 5 10 5 10	0/10* 0/10* 0/10* 0/10* 0/10* 0/10* 0/10* 0/10*		57 89 118 80 105 231 85 86 160	167 68 167 68 167 68 167 68 167 68 167 68	39 101 39 103 39 104 39 107 39 108 39 109 39 112 39 118 39 119	167 6 167 6 167 6 167 6 167 6 167 6	689 30 689 30 689 30 689 30 689 30 689 31 689 31	93 144 177 188 199 2
50 63 63 63	32 20 25 32	3 2 3	32 4 25 5 32 5	0 2 0 1 0 2	5 2 5 2 0 2	5 10 0 10 5 10	0/10* 0/10* 0/10* 0/10* 0/10*		206 84 150	167 68 167 68 167 68	39 120 39 125 39 126 39 127	167 6 167 6	689 32 689 32 689 32 689 32	20 25 26
d [mm]	D [mm]	D1 [inch]	[mm]	L1 [mm]	L3 [mm]	L4 [mm]	H [mm]	H3 [mm]	H4 [mm]	H5 [mm]	Lift = Hx [mm]	e [mm]	e1 [mm]	

d [mm]	D [mm]	D1 [inch]	L [mm]	L1 [mm]	L3 [mm]	L4 [mm]	H [mm]	H3 [mm]	H4 [mm]	H5 [mm]	Lift = Hx	e [mm]	e1 [mm]
įj	[]	[]		[]	[]	[······]	[]	[]	[]	[]	[mm]	[]	
20	96	1/8	117	96	162	12	130	71	25	16	7	1.9	1.9
25	96	1/8	133	108	162	16	131	72	25	16	10	2.3	1.9
25	96	1/8	133	108	162	16	131	72	25	16	10	2.3	2.3
32	96	1/8	142	120	162	19	135	76	25	16	10	2.9	1.9
32	96	1/8	142	120	162	19	135	76	25	16	10	2.9	2.3
32	120	1/8	145	120	160	19	167	93	26	26	13	2.9	2.9
40	120	1/8	149	128	180	23	175	101	26	26	13	3.7	1.9
50	96	1/8	160	134	180	27	148	90	25	16	10	4.6	1.9
50	120	1/8	160	134	180	28	180	106	26	26	13	4.6	2.3
50	120	1/8	160	134	180	28	180	106	26	26	13	4.6	2.9
63	96	1/8	177	144	180	33	155	96	25	26	10	5.8	1.9
63	120	1/8	177	144	180	35	187	113	26	16	13	5.8	2.3
63	120	1/8	177	144	180	35	187	113	26	26	13	5.8	2.9

Butterfly Valves Electric

Butterfly valve type 140 PP-H 100-230V With manual override

Model:

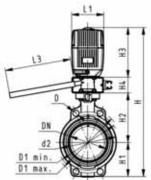
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- Material: PP-H
- Overall length according to EN 558, ISO 5752

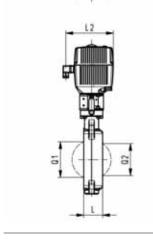
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	199 140 322	199 140 342	199 140 842	6.002
75	65	2 ½	10	2200	199 140 323	199 140 343	199 140 843	5.694
90	80	3	10	3000	199 140 324	199 140 344	199 140 844	5.822
110	100	4	10	6500	199 140 325	199 140 345	199 140 845	6.327
140	125	5	10	11500	199 140 326	199 140 346	199 140 846	7.174
160	150	6	10	16600	199 140 327	199 140 347	199 140 847	9.604
225	200	8	10	39600	199 140 328	199 140 348	199 140 848	13.271

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

	_,			 	 	 	 	 	
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]						
63 75 90 110 140 160 225	250 250 250 250 250 250 250	54 67 88 113 139	35 50 74 97 123 169						





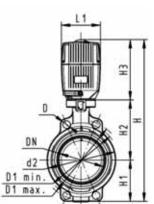




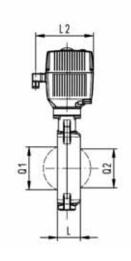
Butterfly valve type 140 PP-H 100-230V Without manual override

Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- · Actuator with integrated emergency manual override standard
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- For DN350-DN600 electric actuator from Valpes is equipped, various options available

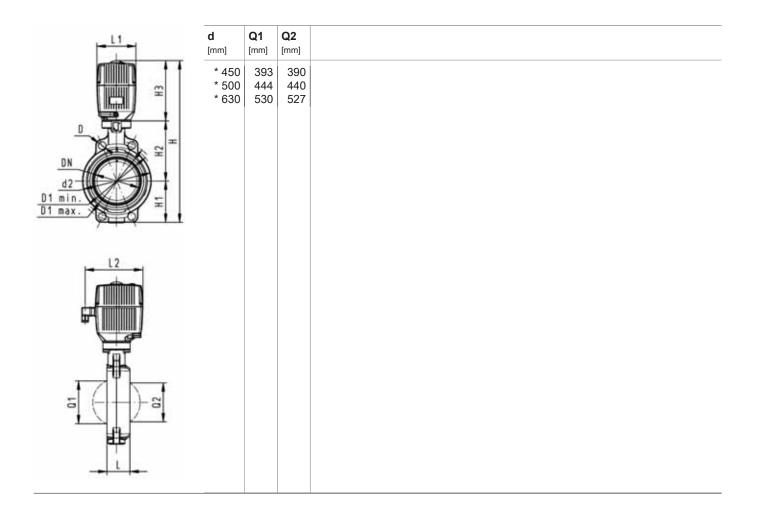


d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg	
63	50	2	10	1470	199 140 362	199 140 382	199 140 802	5.264	
75	65	2 ½	10	2200	199 140 363	199 140 383	199 140 803	4.423	
90	80	3	10	3000	199 140 364	199 140 384	199 140 804	4.548	
110	100	4	10	6500	199 140 365	199 140 385	199 140 805	5.034	
140	125	5	10	11500	199 140 366	199 140 386	199 140 806	5.271	
160	150	6	10	16600	199 140 367	199 140 387	199 140 807	6.256	
225	200	8	10	39600	199 140 368	199 140 388	199 140 808	9.656	
280	250	10	6	55200	199 140 369	199 140 389	199 140 809	13.747	
315	300	12	4	80000	199 140 370	199 140 390	199 140 810	16.722	
* 355	350	14	6	900000	199 140 371	199 140 391		46.180	
* 400	400	16	6	115000	199 140 372	199 140 392		63.800	
* 450	450	18	5	155000	199 140 373	199 140 393		78.800	
* 500	500	20	4	204000	199 140 374	199 140 394		96.200	
* 630	600	24	4	265000	199 140 375	199 140 395		153.000	



d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180
* 355	VS-300	29	445.0	477.0	535	936	268	410	258	129	209	275
* 400	VT-600	29	510.0	540.0	595	1084	300	435	349	169	228	468
* 450	VT-600	32	565.0	578.0	635	1189	320	520	349	179	228	468
* 500	VT-600	32	620.0	635.0	700	1249	350	550	349	190	228	468
* 630	VT-1000	35	725.0	750.0	813	1379	420	610	349	209	228	468

d [mm]	Q1 [mm]	Q2 [mm]	
63 75	40 54	35	
90	67	50	
110 140	88	74 97	
160	139	123	
225	178	169	
280 315	210 256	207 253	
* 355	325	305	
* 400	353	350	





Butterfly valve type 140 PP-H 24V With manual override

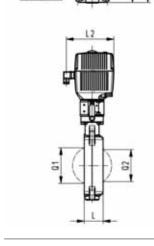
Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
 Control time 15 s/90°<) EA31
 Control time 25s/90°<) EA42
- Control range 90°<)
- · Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	199 140 402	199 140 422	199 140 862	5.603
75	65	2 ½	10	2200	199 140 403	199 140 423	199 140 863	5.694
90	80	3	10	3000	199 140 404	199 140 424	199 140 864	5.822
110	100	4	10	6500	199 140 405	199 140 425	199 140 865	6.327
140	125	5	10	11500	199 140 406	199 140 426	199 140 866	6.771
160	150	6	10	16600	199 140 407	199 140 427	199 140 867	7.556
225	200	8	10	39600	199 140 408	199 140 428	199 140 868	13.271

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

d [mm]	Actua unit t		D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	
63	EA-3	1	19	120.0	125.0	104	460	77	134	188	60	45	122	180	
75	EA-31	1	19	139.7	145.0	115	473	83	140	188	60	46	122	180	ĺ
90	EA-3	1	19	150.0	160.0	131	488	89	146	188	60	49	122	180	ĺ
110	EA-3	1	19	175.0	190.5	161	520	104	167	188	60	56	122	180	ĺ
140	EA-31	1	23	210.0	215.9	187	547	117	181	188	60	64	122	180	ĺ
160	EA-3	1	24	241.3	241.3	215	568	130	189	188	60	72	122	180	ĺ
225	EA-42	2	23	290.0	295.0	267	635	158	210	208	60	73	122	180	
4	1.2	01	02												
d	L3	Q1	Q2												



d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110 140	250 250	88 113	74 97
160	250	139	123
225	250	178	169

Butterfly valve type 140 PP-H 24V Without manual override

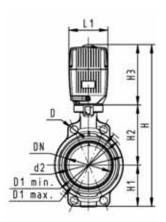
Model:

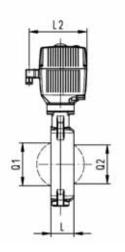
- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
 Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
 12" PVC, 12"–24" PP, available on request

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	199 140 442	199 140 462	199 140 822	4.314
75	65	2 ½	10	2200	199 140 443	199 140 463	199 140 823	4.194
90	80	3	10	3000	199 140 444	199 140 464	199 140 824	4.529
110	100	4	10	6500	199 140 445	199 140 465	199 140 825	5.017
140	125	5	10	11500	199 140 446	199 140 466	199 140 826	5.271
160	150	6	10	16600	199 140 447	199 140 467	199 140 827	6.056
225	200	8	10	39600	199 140 448	199 140 468	199 140 828	11.771
280	250	10	6	55200	199 140 449	199 140 469	199 140 829	13.747
315	300	12	4	80000	199 140 450	199 140 470	199 140 830	16.722

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

					 		_	 	
d [mm]	Q2 [mm]								
63									
75	35								
90	50								
110	74								
140	97								
160	123								
225	169								
280	207								
315	253								
	1	ľ							



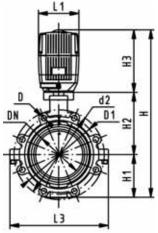




PROGEF Standard Lugstyle butterfly valve type 141 100-230V Without manual override

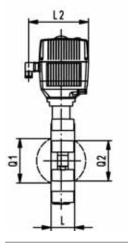
Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	199 141 362	199 141 382	199 141 802	6.193
75	65	2 ½	10	2200	199 141 363	199 141 383	199 141 803	6.535
90	80	3	10	3000	199 141 364	199 141 384	199 141 804	7.540
110	100	4	10	6500	199 141 365	199 141 385	199 141 805	8.925
140	125	5	10	11500	199 141 366	199 141 386	199 141 806	10.755
160	150	6	10	16600	199 141 367	199 141 387	199 141 807	12.539
225	200	8	10	39600	199 141 368	199 141 388	199 141 808	21.747

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178



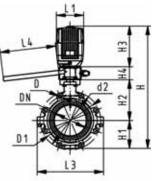
d [mm]	Q2 [mm]
63	
75	35
90	50
110	
140	97
160 225	123
225	169



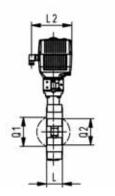
PROGEF Standard Lugstyle butterfly valve type 141 100-230V With manual override

Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-valu (Δp=1 k	-	EPDI Code		FPN Cod	-		ΓFE ode		kg	
63	50	2	10	1	470	199 1	141 322	199	141 34	42 19	9 141	842	7.6	93
75	65	2 ½	10	2	200	199 1	141 323	199	141 34	43 19	9 141	843	8.0	35
90	80	3	10	3	000	199 1	141 324	199	141 34	44 19	9 141	844	9.0	40
110	100	4	10	6	500	199 1	141 325	199	141 34	45 19	9 141	845	10.4	25
140	125	5	10	11	500	199 1	141 326	199	141 34	46 19	9 141	846	12.2	55
160	150	6	10	16	600	199 1	141 327	199	141 34	47 19	9 141	847	14.0	39
225	200	8	10	39	600	199 1	141 328	199	141 34	48 19	9 141	848	23.2	47
d	Actua	ator	D	D1	d2	н	H1	H2	НЗ	H4	L	L1	L2	L3



													_
d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360

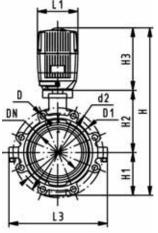
d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]	
63	200	40		Г
75	200	54	35	
90	200	67	50	
110	250	88	74	
140	250	113	97	
160	250	139	123	
225	250	178	169	



PROGEF Standard Lugstyle butterfly valve type 141 24V Without manual override

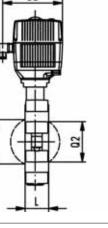
Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	199 141 442	199 141 462	199 141 822	6.193
75	65	2 ½	10	2200	199 141 443	199 141 463	199 141 823	6.535
90	80	3	10	3000	199 141 444	199 141 464	199 141 824	7.540
110	100	4	10	6500	199 141 445	199 141 465	199 141 825	8.925
140	125	5	10	11500	199 141 446	199 141 466	199 141 826	10.755
160	150	6	10	16600	199 141 447	199 141 467	199 141 827	12.539
225	200	8	10	39600	199 141 448	199 141 468	199 141 828	21.747

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178



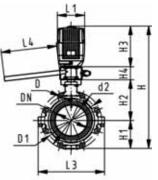
d	Q2
[mm]	[mm]
63	
75 90 110	35
90	50
110	74
140	97
160	123
160 225	169
220	.00



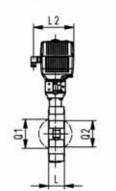


Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	199 141 402	199 141 422	199 141 862	7.693
75	65	2 ½	10	2200	199 141 403	199 141 423	199 141 863	8.035
90	80	3	10	3000	199 141 404	199 141 424	199 141 864	9.040
110	100	4	10	6500	199 141 405	199 141 425	199 141 865	10.425
140	125	5	10	11500	199 141 406	199 141 426	199 141 866	12.255
160	150	6	10	16600	199 141 407	199 141 427	199 141 867	14.039
225	200	8	10	39600	199 141 408	199 141 428	199 141 868	23.247



d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360
	1	1	1	1		1		1	1	1	1	1	

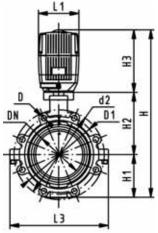
d	L4	Q1	Q2	
[mm]	[mm]	[mm]	[mm]	
63	200	40		
75	200	54	35	
90	200	67	50	
110	250	88	74	
140	250	113	97	
160	250	139	123	
225	250	178	169	



PROGEF Standard Lugstyle butterfly valve type 142 100-230V Without manual override

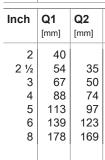
Model:

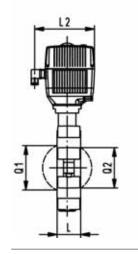
- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



Inch	DN [mm]	d [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
2	50	63	10	1470	199 142 362	199 142 382	199 142 802	6.193
2 ½	65	75	10	2200	199 142 363	199 142 383	199 142 803	6.535
3	80	90	10	3000	199 142 364	199 142 384	199 142 804	6.911
4	100	110	10	6500	199 142 365	199 142 385	199 142 805	8.925
5	125	140	10	11500	199 142 366	199 142 386	199 142 806	10.755
6	150	160	10	16600	199 142 367	199 142 387	199 142 807	12.539
8	200	225	10	39600	199 142 368	199 142 388	199 142 808	21.747

Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	
2	EA-31	UNC 5/8	121	150	399	77	134	188	45	122	180	150	
2 ½	EA-31	UNC 5/8	140	170	411	83	140	188	46	122	180	160	
3	EA-31	UNC 5/8	153	177	423	89	146	188	49	122	180	175	
4	EA-31	UNC 5/8	191	216	459	104	167	188	56	122	180	244	
5	EA-31	UNC 3/4	216	246	486	117	181	188	64	122	180	272	
6	EA-31	UNC 3/4	242	273	507	130	189	188	72	122	180	297	
8	EA-42	UNC 3/4	299	334	576	158	210	208	73	122	180	360	



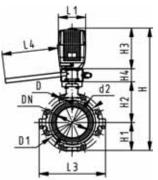




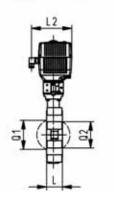
PROGEF Standard Lugstyle butterfly valve type 142 100-230V With manual override

Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



Inch	DN [mm]	d [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
2	50	63	10	1470	199 142 322	199 142 342	199 142 842	6.193
2 ½	65	75	10	2200	199 142 323	199 142 343	199 142 843	6.535
3	80	90	10	3000	199 142 324	199 142 344	199 142 844	6.911
4	100	110	10	6500	199 142 325	199 142 345	199 142 845	8.925
5	125	140	10	11500	199 142 326	199 142 346	199 142 846	10.755
6	150	160	10	16600	199 142 327	199 142 347	199 142 847	12.539
8	200	225	10	39600	199 142 328	199 142 348	199 142 848	21.747



Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
2	EA-31	UNC 5/8	121	150	459	77	134	188	60	45	122	180	150
2 1/2	EA-31	UNC 5/8	140	170	471	83	140	188	60	46	122	180	160
3	EA-31	UNC 5/8	153	177	483	89	146	188	60	49	122	180	175
4	EA-31	UNC 5/8	191	216	519	104	167	188	60	56	122	180	244
5	EA-31	UNC 3/4	216	246	546	117	181	188	60	64	122	180	272
6	EA-31	UNC 3/4	242	273	567	130	189	188	60	72	122	180	297
8	EA-42	UNC 3/4	299	334	636	158	210	208	60	73	122	180	360

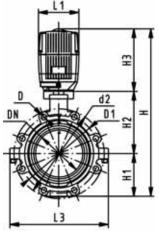
				_
Inch	L4	Q1	Q2	
	[mm]	[mm]	[mm]	
2	200	40		
2 ½	200	54	35	
3	200	67	50	
4	250	88	74	
5	250	113	97	
6	250	139	123	
8	250	178	169	



PROGEF Standard Lugstyle butterfly valve type 142 24V Without manual override

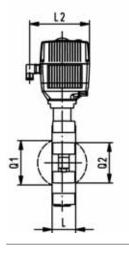
Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



Inch	DN [mm]	d [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
2	50	63	10	1470	199 142 442	199 142 462	199 142 822	6.193
2 ½	65	75	10	2200	199 142 443	199 142 463	199 142 823	6.535
3	80	90	10	3000	199 142 444	199 142 464	199 142 824	6.911
4	100	110	10	6500	199 142 445	199 142 465	199 142 825	8.925
5	125	140	10	11500	199 142 446	199 142 466	199 142 826	10.755
6	150	160	10	16600	199 142 447	199 142 467	199 142 827	12.539
8	200	225	10	39600	199 142 448	199 142 468	199 142 828	21.747

Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
2	EA-31	UNC 5/8	121	150	399	77	134	188	45	122	180	150
2 ½	EA-31	UNC 5/8	140	170	411	83	140	188	46	122	180	160
3	EA-31	UNC 5/8	153	177	423	89	146	188	49	122	180	175
4	EA-31	UNC 5/8	191	216	459	104	167	188	56	122	180	244
5	EA-31	UNC 3/4	216	246	486	117	181	188	64	122	180	272
6	EA-31	UNC 3/4	242	273	507	130	189	188	72	122	180	297
8	EA-42	UNC 3/4	299	334	576	158	210	208	73	122	180	360



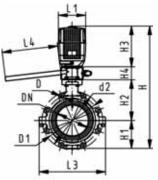
Inch	Q1 [mm]	Q2 [mm]
2	40	
2 ½	54	35
3	67	50
4	88	74
5	113	97
6	139	123
8	178	169



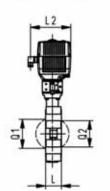
PROGEF Standard Lugstyle butterfly valve type 142 24V With manual override

Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



Inch	DN [mm]	d [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
2	50	63	10	1470	199 142 402	199 142 422	199 142 862	6.193
2 ½	65	75	10	2200	199 142 403	199 142 423	199 142 863	6.535
3	80	90	10	3000	199 142 404	199 142 424	199 142 864	6.911
4	100	110	10	6500	199 142 405	199 142 425	199 142 865	8.925
5	125	140	10	11500	199 142 406	199 142 426	199 142 866	10.755
6	150	160	10	16600	199 142 407	199 142 427	199 142 867	12.539
8	200	225	10	39600	199 142 408	199 142 428	199 142 868	21.747



Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
2	EA-31	UNC 5/8	121	150	459	77	134	188	60	45	122	180	150
2 ½	EA-31	UNC 5/8	140	170	471	83	140	188	60	46	122	180	160
3	EA-31	UNC 5/8	153	177	483	89	146	188	60	49	122	180	175
4	EA-31	UNC 5/8	191	216	519	104	167	188	60	56	122	180	244
5	EA-31	UNC 3/4	216	246	546	117	181	188	60	64	122	180	272
6	EA-31	UNC 3/4	242	273	567	130	189	188	60	72	122	180	297
8	EA-42	UNC 3/4	299	334	636	158	210	208	60	73	122	180	360

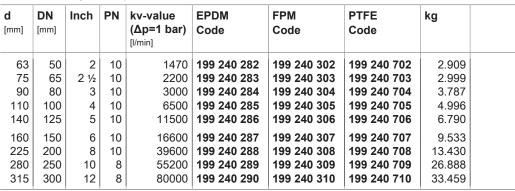
Inch	L4 [mm]	Q1 [mm]	Q2 [mm]	
2	200	40		
2 ½	200	54	35	
3	200	67	50	
4	250	88	74	
5	250	113	97	
6	250	139	123	
8	250	178	169	

Butterfly Valves Pneumatic

Butterfly valve type 240 PP-H FC (Fail safe to close) Without manual override



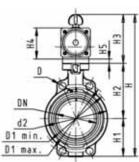
- Material: PP-H, DN350-DN600 material PP-R
- For DN350-DN600 pneumatic actuator supplied by Revac
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Control range 90°<)

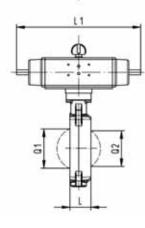


d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73	452
280	PA-65 FC	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FC	25	400.0	432.0	379	866	228	285	196	157		113	663

d [mm]	Q1 [mm]	Q2 [mm]							
63 75 90 110 140	40 54 67 88 113	35 50 74 97							
160 225 280 315	139 178 210	123 169							









Without manual override

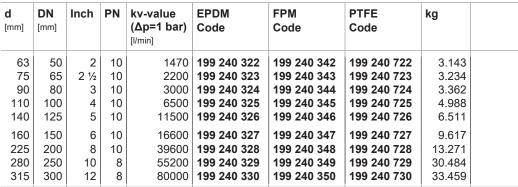
Model:

- · Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752

Butterfly valve type 240 PP-H

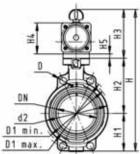
FO (Fail safe to open)

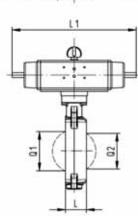
Control range 90°<)



315	300 12	8	800	000 19	9 240 3	330	199 24	0 350	199 2	240 73	0 3	3.459		
d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276	
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276	
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	326	
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56	370	
140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64	411	
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72	423	
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73	452	
280	PA-70 FO	25	353.0	362.0	329	808	205	264	191	148		113	648	
315	PA-70 FO	25	400.0	432.0	379	866	228	285	196	157		113	663	

d	L2	Q1	Q2						
[mm]	[mm]	[mm]	[mm]						
63	65	40							
75	65	54	35						
90	72	67	50						
110	80	88	74						
140	90	113	97						
160	100	139	123						
225	112	178	169						
280	137	210	207						
315	145	256	253						







Butterfly valve type 240 PP-H DA (Double acting) Without manual override

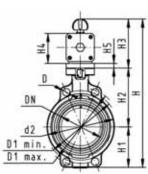
Model:

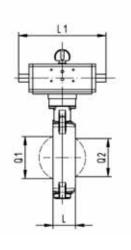
- For DN350-DN600 pneumatic actuator supplied by Revac
- Material: PP-H, DN350-DN600 material PP-R
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg	
63	50	2	10	1470	199 240 362	199 240 382	199 240 742	2.227	
75	65	2 ½	10	2200	199 240 363	199 240 383	199 240 743	2.084	
90	80	3	10	3000	199 240 364	199 240 384	199 240 744	2.728	
110	100	4	10	6500	199 240 365	199 240 385	199 240 745	3.542	
140	125	5	10	11500	199 240 366	199 240 386	199 240 746	3.967	
160	150	6	10	16600	199 240 367	199 240 387	199 240 747	6.096	
225	200	8	10	39600	199 240 368	199 240 388	199 240 748	7.271	
280	250	10	8	55200	199 240 369	199 240 389	199 240 749	18.188	
315	300	12	8	80000	199 240 370	199 240 390	199 240 750	24.263	
* 355	350	14	6	90000	199 240 371	199 240 391		40.600	
* 400	400	16	6	115000	199 240 372	199 240 392		62.100	
* 450	450	18	5	155000	199 240 373	199 240 393		77.100	
* 500	500	20	4	204000	199 240 374	199 240 394		92.100	
* 630	600	24	4	265000	199 240 375	199 240 395		127.100	

d [mm]	Actuator unit type	D [mm]	D1 min.	D1 max.	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45	177
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46	177
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49	190
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56	235
140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64	235
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279
280	PA-65 DA	25	353.0	362.0	329	748	205	264	161	118		113	350
315	PA-70 DA	25	400.0	432.0	379	816	228	285	173	130	27	113	381
* 355	AP 5	29	445.0	477.0	535	863	268	410	185	155		129	360
* 400	AP 5.5	29	510.0	540.0	595	941	300	435	206	176	27	169	380
* 450	AP 5.5	32	565.0	578.0	635	1046	320	520	206	176	36	179	380
* 500	AP 6	32	620.0	635.0	700	1130	350	550	230	200	36	190	462
* 630	AP8	35	725.0	750.0	813	1330	420	610	300	250	36	209	530

- 000	030 Ai 0		55	723.0	730.0	013	1330	420	010	300	230	30	203	550
d [mm]	Q1 [mm]	Q2 [mm]												
63 75 90 110 140 160 225 280	40 54 67 88 113 139 178 210	35 50 74 97 123 169 207												
315 * 355	256 325	253 305												
* 400 * 450 * 500 * 630	353 393 444 530	350 390 440 527												



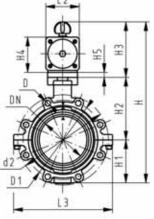


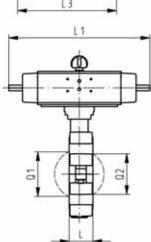


PROGEF Standard Lugstyle butterfly valve type 241 FC (Fail safe to close) Without manual override

Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<)





		_		*				
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	199 241 282	199 241 302	199 241 702	5.233
75	65	2 ½	10	2200	199 241 283	199 241 303	199 241 703	5.575
90	80	3	10	3000	199 241 284	199 241 304	199 241 704	6.580
110	100	4	10	6500	199 241 285	199 241 305	199 241 705	9.487
140	125	5	10	11500	199 241 286	199 241 306	199 241 706	11.995
160	150	6	10	16600	199 241 287	199 241 307	199 241 707	16.100
225	200	8	10	39600	199 241 288	199 241 308	199 241 708	23.247

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FC	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FC	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FC	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FC	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FC	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FC	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FC	M20	295	334	529	158	210	161	118		73	452	112

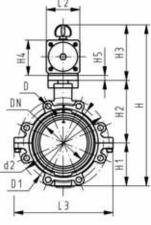
d	L3	Q1	Q2	
[mm]	[mm]	[mm]	[mm]	
63	150	40		
75	160	54	35	
90	205	67	50	
110	244	88	74	
140	272	113	97	
160	297	139	123	
225	360	178	169	

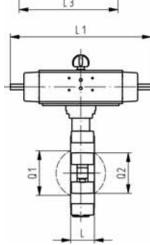
292



PROGEF Standard Lugstyle butterfly valve type 241 FO (Fail safe to open) Without manual override

- · Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<)



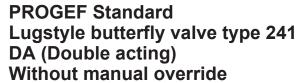


d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	199 241 322	199 241 342	199 241 722	5.123
75	65	2 ½	10	2200	199 241 323	199 241 343	199 241 723	6.396
90	80	3	10	3000	199 241 324	199 241 344	199 241 724	6.580
110	100	4	10	6500	199 241 325	199 241 345	199 241 725	9.163
140	125	5	10	11500	199 241 326	199 241 346	199 241 726	12.951
160	150	6	10	16600	199 241 327	199 241 347	199 241 727	16.100
225	200	8	10	39600	199 241 328	199 241 348	199 241 728	23.247

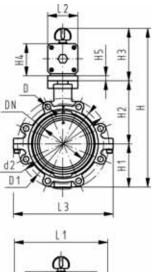
d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FO	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FO	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FO	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FO	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FO	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FO	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FO	M20	295	334	529	158	210	161	118		73	452	112

d	L3	Q1	Q2	Г
u		Q.	Q_	
[mm]	[mm]	[mm]	[mm]	
63	150	40		
75	160	54	35	
90	205	67	50	
110	244	88	74	
140	272	113	97	
160	297	139	123	
225	360	178	169	





- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<)



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg
63	50	2	10	1470	199 241 362	199 241 382	199 241 742	4.083
75	65	2 ½	10	2200	199 241 363	199 241 383	199 241 743	4.425
90	80	3	10	3000	199 241 364	199 241 384	199 241 744	5.911
110	100	4	10	6500	199 241 365	199 241 385	199 241 745	7.415
140	125	5	10	11500	199 241 366	199 241 386	199 241 746	9.245
160	150	6	10	16600	199 241 367	199 241 387	199 241 747	12.579
225	200	8	10	39600	199 241 368	199 241 388	199 241 748	17.247

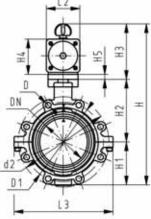
d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-35 DA	M16	125	150	318	77	134	107	60	15	45	177	55
75	PA-35 DA	M16	145	170	330	83	140	107	60	15	46	177	55
90	PA-40 DA	M16	160	184	348	89	146	113	66	15	49	190	60
110	PA-45 DA	M16	180	216	373	104	167	102	71		56	235	65
140	PA-45 DA	M16	210	246	409	117	181	111	78		64	235	72
160	PA-55 DA	M20	240	273	448	130	189	129	86		72	279	80
225	PA-55 DA	M20	295	334	507	158	210	139	96		73	279	90

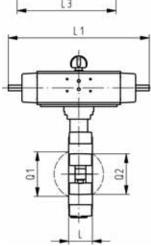
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	
63	150	40		
75	160	54	35	
90	205	67	50	
110	244	88	74	
140	272	113	97	
160	297	139	123	
225	360	178	169	



PROGEF Standard Lugstyle butterfly valve type 242 FC (Fail safe to close) Without manual override

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Control range 90°<)





Inch	DN [mm]	d [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg	
2	50	63	10	1470	199 242 282	199 242 302	199 242 702	5.233	ı
2 ½	65	75	10	2200	199 242 283	199 242 303	199 242 703	5.575	1
3	80	90	10	3000	199 242 284	199 242 304	199 242 704	5.951	ı
4	100	110	10	6500	199 242 285	199 242 305	199 242 705	9.163	ı
5	125	140	10	11500	199 242 286	199 242 306	199 242 706	11.995	1
6	150	160	10	16600	199 242 287	199 242 307	199 242 707	16.100	1
8	200	225	10	39600	199 242 288	199 242 308	199 242 708	23.247	1

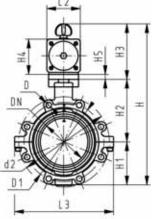
Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
2	PA-30 FC	UNC 5/8	121	150	328	77	134	117	70	15	45	276	65
2 ½	PA-30 FC	UNC 5/8	140	170	340	83	140	117	70	15	46	276	65
3	PA-35 FC	UNC 5/8	153	177	361	89	146	126	78	15	49	326	72
4	PA-40 FC	UNC 5/8	191	216	400	104	167	129	86		56	370	80
5	PA-45 FC	UNC 3/4	216	246	437	117	181	139	96		64	411	90
6	PA-50 FC	UNC 3/4	242	273	468	130	189	149	106		72	423	100
8	PA-55 FC	UNC 3/4	299	334	529	158	210	161	118		73	452	112

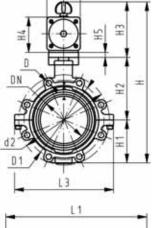
Inch	L3 [mm]	Q1 [mm]	Q2 [mm]		
2	150	40			
2 ½	160	54	35		
3	175	67	50		
4	244	88	74		
5	272	113	97		
6	297	139	123		
8	360	178	169		

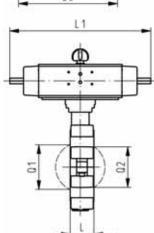


PROGEF Standard Lugstyle butterfly valve type 242 FO (Fail safe to open) Without manual override

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
 Control range 90°<)







Inch	DN [mm]	d [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	PTFE Code	kg	
2	50	63	10	1470	199 242 322	199 242 342	199 242 722	5.233	
2 1/2	65	75	10	2200	199 242 323	199 242 343	199 242 723	5.575	
3	80	90	10	3000	199 242 324	199 242 344	199 242 724	5.951	
4	100	110	10	6500	199 242 325	199 242 345	199 242 725	9.163	
5	125	140	10	11500	199 242 326	199 242 346	199 242 726	11.995	
6	150	160	10	16600	199 242 327	199 242 347	199 242 727	16.100	
8	200	225	10	39600	199 242 328	199 242 348	199 242 728	23.247	

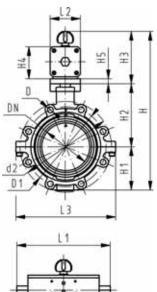
Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
2	PA-30 FO	UNC 5/8	121	150	328	77	134	117	70	15	45	276	65
2 ½	PA-30 FO	UNC 5/8	140	170	340	83	140	117	70	15	46	276	65
3	PA-35 FO	UNC 5/8	153	177	361	89	146	126	78	15	49	326	72
4	PA-40 FO	UNC 5/8	191	216	400	104	167	129	86		56	370	80
5	PA-45 FO	UNC 3/4	216	246	437	117	181	139	96		64	411	90
6	PA-50 FO	UNC 3/4	242	273	468	130	189	149	106		72	423	100
8	PA-55 FO	UNC 3/4	299	334	529	158	210	161	118		73	452	112

l m a la	1.2	04	02	Γ
Inch	L3	Q1	Q2	
	[mm]	[mm]	[mm]	
2	150	40		
2 ½	160	54	35	
3	175	67	50	
4	244	88	74	
5	272	113	97	
6	297	139	123	
8	360	178	169	



PROGEF Standard Lugstyle butterfly valve type 242 DA (Double acting) Without manual override

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Control range 90°<)



• • • •			-	,					
Inch	DN [mm]	d [mm]	PN	kv-value (Δp=1 bar)	EPDM Code	FPM Code	PTFE Code	kg	
2	50	63	10	1470	199 242 362	199 242 382	199 242 742	4.083	
2 1/2	65	75	10	2200	199 242 363	199 242 383	199 242 743	4.425	
3	80	90	10	3000	199 242 364	199 242 384	199 242 744	5.282	
4	100	110	10	6500	199 242 365	199 242 385	199 242 745	7.415	
5	125	140	10	11500	199 242 366	199 242 386	199 242 746	9.245	
6	150	160	10	16600	199 242 367	199 242 387	199 242 747	12.579	
8	200	225	10	39600	199 242 368	199 242 388	199 242 748	17.247	

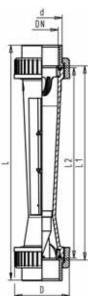
Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
2	PA-35 DA	UNC 5/8	121	150	318	77	134	107	60	15	45	177	55
2 ½	PA-35 DA	UNC 5/8	140	170	330	83	140	107	60	15	46	177	55
3	PA-40 DA	UNC 5/8	153	177	348	89	146	113	66	15	49	190	60
4	PA-45 DA	UNC 5/8	191	216	373	104	167	102	71		56	235	65
5	PA-45 DA	UNC 3/4	216	246	409	117	181	111	78		64	235	72
6	PA-55 DA	UNC 3/4	242	273	448	130	189	129	86		72	279	80
8	PA-55 DA	UNC 3/4	299	334	507	158	210	139	96		73	279	90

Inch	L3	Q1	Q2	
	[mm]	[mm]	[mm]	
2	150	40		
2 ½	160	54	35	
3	175	67	50	
4	244	88	74	
5	272	113	97	
6	297	139	123	
8	360	178	169	

Variable area flow meters

Variable area flow meter type 335 Float in PVDF without magnet With solvent cement sockets PVC-U metric

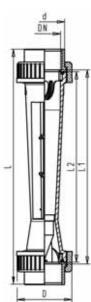




Scale range	d [mm]	DN [mm]	Taper tube in PVC-U transp. O- rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O- rings in EPDM Code	kg
50 - 500	32	25	198 335 000	198 335 020	198 335 040	0.464
100 - 1000	32	25	198 335 001	198 335 021	198 335 041	0.528
150 - 1500	40	32	198 335 002	198 335 022	198 335 042	0.698
250 - 2500	40	32	198 335 003	198 335 023	198 335 043	0.561
200 - 2000	50	40	198 335 004	198 335 024	198 335 044	1.057
300 - 3000	50	40	198 335 005	198 335 025	198 335 045	1.038
600 - 6000	50	40	198 335 006	198 335 026	198 335 046	0.991
600 - 6000	63	50	198 335 007	198 335 027	198 335 047	1.455
1000 - 10000	63	50	198 335 008	198 335 028	198 335 048	1.252
1500 - 15000	63	50	198 335 009	198 335 029	198 335 049	1.429
2000 - 20000	75	65	198 335 010	198 335 030	198 335 050	2.639
3000 - 30000	75	65	198 335 011	198 335 031	198 335 051	2.572
8000 - 60000	75	65	198 335 012	198 335 032	198 335 052	2.432

Scale range	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]
	-				
50 - 500	58	385	341	335	1 ½
100 - 1000	58	385	341	335	1 1/2
150 - 1500	72	393	341	335	2
250 - 2500	72	393	341	335	2
200 - 2000	83	403	341	335	2 1/4
300 - 3000	83	403	341	335	2 1/4
600 - 6000	83	403	341	335	2 1/4
600 - 6000	101	417	341	335	2 3/4
1000 - 10000	101	417	341	335	2 3/4
1500 - 15000	101	417	341	335	2 3/4
2000 - 20000		429	341	335	3 ½
3000 - 30000	135	429	341	335	3 ½
8000 - 60000	135	429	341	335	3 ½





Variable area flow meter type 335 Float in PVDF with magnet With solvent cement sockets PVC-U metric

Model:

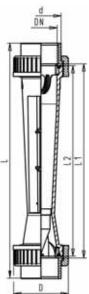
• Suitable limit switches see accessories for variable area flow meters

Scale range	d [mm]	DN [mm]	Taper tube in PVC-U transp. O- Rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O- rings in EPDM Code	kg
50 - 500	32	25	198 335 100	198 335 120	198 335 140	0.440
100 - 1000	32	25	198 335 101	198 335 121	198 335 141	0.452
150 - 1500	40	32	198 335 102	198 335 122	198 335 142	0.604
250 - 2500	40	32	198 335 103	198 335 123	198 335 143	0.585
200 - 2000	50	40	198 335 104	198 335 124	198 335 144	0.900
300 - 3000	50	40	198 335 105	198 335 125	198 335 145	1.035
600 - 6000	50	40	198 335 106	198 335 126	198 335 146	0.881
600 - 6000	63	50	198 335 107	198 335 127	198 335 147	1.225
1000 - 10000	63	50	198 335 108	198 335 128	198 335 148	1.248
1500 - 15000	63	50	198 335 109	198 335 129	198 335 149	1.409
2000 - 20000	75	65	198 335 110	198 335 130	198 335 150	2.441
3000 - 30000	75	65	198 335 111	198 335 131	198 335 151	2.377
8000 - 60000	75	65	198 335 112	198 335 132	198 335 152	2.150

Scale range	D [mm]	L [mm]	L1 [mm]	L2	G [inch]
[,,,,]	friend	[i]	[]	friend	[iiioii]
50 - 500	58	385	341	335	1 ½
100 - 1000	58	385	341	335	1 1/2
150 - 1500	72	393	341	335	2
250 - 2500	72	393	341	335	2
200 - 2000	83	403	341	335	2 1/4
300 - 3000	83	403	341	335	2 1/4
600 - 6000		403	341	335	2 1/4
			_		
600 - 6000		417	341	335	2 3/4
1000 - 10000		417	341	335	2 3/4
1500 - 15000	101	417	341	335	2 3/4
2000 - 20000	135	429	341	335	3 ½
3000 - 30000	135	429	341	335	3 ½
8000 - 60000	135	429	341	335	3 ½

+GF+ 299





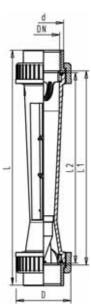
Variable area flow meter type 350 Float in PVDF without magnet With solvent cement sockets PVC-U metric

Scale range [l/h]	d [mm]	DN [mm]	Taper tube in PVC-U transp. O- rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O- rings in EPDM Code	kg
50 - 500	32	25	198 350 000	198 350 020	198 350 040	0.487
100 - 1000	32	25	198 350 001	198 350 021	198 350 041	0.474
150 - 1500	40	32	198 350 002	198 350 022	198 350 042	0.614
250 - 2500	40	32	198 350 003	198 350 023	198 350 043	0.688
200 - 2000	50	40	198 350 004	198 350 024	198 350 044	0.962
300 - 3000	50	40	198 350 005	198 350 025	198 350 045	0.989
600 - 6000	50	40	198 350 006	198 350 026	198 350 046	0.953
600 - 6000	63	50	198 350 007	198 350 027	198 350 047	1.335
1000 - 10000	63	50	198 350 008	198 350 028	198 350 048	1.343
1500 - 15000	63	50	198 350 009	198 350 029	198 350 049	1.315
2000 - 20000	75	65	198 350 010	198 350 030	198 350 050	2.486
3000 - 30000	75	65	198 350 011	198 350 031	198 350 051	2.770
8000 - 60000	75	65	198 350 012	198 350 032	198 350 052	2.244

D	L	L1	L2	G
[mm]	[mm]	[mm]	[mm]	[inch]
58	400	356	350	1 ½
58	400	356	350	1 1/2
72	408	356	350	2
72	408	356	350	2
83	418	356	350	2 1/4
83	418	356	350	2 1/4
83	418	356	350	2 1/4
101	432	356	350	2 3/4
101	432	356	350	2 3/4
101	432	356	350	2 ¾
135	444	356	350	3 ½
135	444	356	350	3 ½
	l		350	3 ½
	[mm] 58 58 72 72 83 83 83 101 101 101 135 135	[mm] [mm] 58 400 58 400 72 408 72 408 83 418 83 418 83 418 101 432 101 432 101 432 135 444 135 444	[mm] [mm] [mm] 58 400 356 58 400 356 72 408 356 72 408 356 83 418 356 83 418 356 101 432 356 101 432 356 101 432 356 101 432 356 135 444 356	[mm] [mm] [mm] [mm] 58 400 356 350 58 400 356 350 72 408 356 350 72 408 356 350 83 418 356 350 83 418 356 350 101 432 356 350 101 432 356 350 101 432 356 350 135 444 356 350 135 444 356 350

300 +GF+





Variable area flow meter type 350 Float in PVDF with magnet With solvent cement sockets PVC-U metric

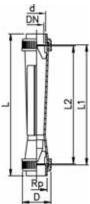
Model:

• Suitable limit switches see accessories for variable area flow meters

Scale range	d [mm]	DN [mm]	Taper tube in PVC-U transp. O- Rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O- rings in EPDM Code	kg
50 - 500	32	25	198 350 100	198 350 120	198 350 140	0.440
100 - 1000	32	25	198 350 101	198 350 121	198 350 141	0.440
150 - 1500	40	32	198 350 102	198 350 122	198 350 142	0.615
250 - 2500	40	32	198 350 103	198 350 123	198 350 143	0.620
200 - 2000	50	40	198 350 104	198 350 124	198 350 144	0.900
300 - 3000	50	40	198 350 105	198 350 125	198 350 145	0.900
600 - 6000	50	40	198 350 106	198 350 126	198 350 146	0.900
600 - 6000	63	50	198 350 107	198 350 127	198 350 147	1.320
1000 - 10000	63	50	198 350 108	198 350 128	198 350 148	1.320
1500 - 15000	63	50	198 350 109	198 350 129	198 350 149	1.320
2000 - 20000	75	65	198 350 110	198 350 130	198 350 150	2.150
3000 - 30000	75	65	198 350 111	198 350 131	198 350 151	2.150
8000 - 60000	75	65	198 350 112	198 350 132	198 350 152	2.150

Scale range	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]
[[,,,,]	friend	[]	[]	[]	[iiioii]
50 - 500	58	400	356	350	1 ½
100 - 1000	58	400	356	350	1 1/2
150 - 1500	72	408	356	350	2
250 - 2500	72	408	356	350	2
200 - 2000	83	418	356	350	2 1/4
300 - 3000	83	418	356	350	2 1/4
600 - 6000		418	356	350	2 1/4
600 - 6000		432	356	350	2 3/4
1000 - 10000		432	356	350	2 3/4
1500 - 15000		432	356	350	2 3/4
2000 - 20000		444	356	350	3 ½
3000 - 30000	135	444	356	350	3 ½
8000 - 60000	135	444	356	350	3 ½





Short version Float in PVDF without magnet With solvent cement sockets PVC-U metric

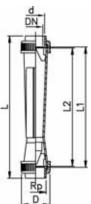
Model:

• Union nuts and valve ends in other materials on request

Туре	d [mm]	DN [mm]	Scale range	Taper tube in Polysulfone O- rings in EPDM Code	Taper tube in PVC-U transp. O- rings in EPDM Code	kg	
SK 50	16	10	2.5 - 25	198 801 880	198 803 310	0.081	
SK 51	16	10	5 - 50	198 801 881	198 803 311	0.079	
SK 52	16	10	10 - 100	198 801 882	198 803 312	0.079	
SK 60	20	15	8 - 80	198 801 883	198 803 313	0.127	
SK 61	20	15	15 - 150	198 801 884	198 803 314	0.130	
SK 62	20	15	20 - 200	198 801 885	198 803 315	0.125	
SK 70	32	25	15 - 150	198 801 886	198 803 316	0.256	
SK 71	32	25	30 - 300	198 801 887	198 803 317	0.254	
SK 72	32	25	50 - 500	198 801 888	198 803 318	0.244	
SK 73	32	25	100 - 1000	198 801 889	198 803 319	0.242	

Type	D [mm]	L [mm]	L1 [mm]	L2 [mm]	Rp [inch]	
	firming	[iiiiii]	firmin	[iiiiii]	[IIICII]	L
SK 50	35	199	171	165	3/8	
SK 51	35	199	171	165	3/8	
SK 52	35	199	171	165	3/8	
SK 60	43	223	191	185	1/2	
SK 61	43	223	191	185	1/2	
SK 62	43	223	191	185	1/2	
SK 70	60	250	206	200	1	
SK 71	60	250	206	200	1	
SK 72	60	250	206	200	1	
SK 73	60	250	206	200	1	





Short version Float in PVDF with magnet With solvent cement sockets PVC-U metric

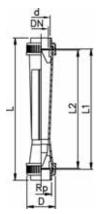
Model:

- · Union nuts and valve ends in other materials on request
- Suitable limit switches see accessories for variable area flow meters

Type	d [mm]	DN [mm]	Scale range	Taper tube in Polysulfone O- rings in EPDM Code	Taper tube in PVC-U transp. O- rings in EPDM Code	kg	
SK 500	16	10	2.5 - 25	198 801 890	198 803 320	0.081	
SK 510	16	10	5 - 50	198 801 891	198 803 321	0.080	
SK 520	16	10	10 - 100	198 801 892	198 803 322	0.079	
SK 600	20	15	8 - 80	198 801 893	198 803 323	0.129	
SK 610	20	15	15 - 150	198 801 894	198 803 324	0.128	
SK 620	20	15	20 - 200	198 801 895	198 803 325	0.125	
SK 700	32	25	15 - 150	198 801 896	198 803 326	0.301	
SK 710	32	25	30 - 300	198 801 897	198 803 327	0.255	
SK 720	32	25	50 - 500	198 801 898	198 803 328	0.248	
SK 730	32	25	100 - 1000	198 801 899	198 803 329	0.242	
				1			

nch]	
3/8	
3/8	
3/8	
1/2	
1/2	
1/2	
1	
	3/8 3/8 3/8 1/2 1/2 1/2

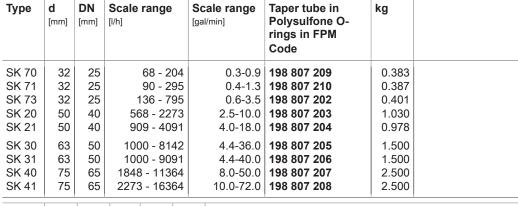
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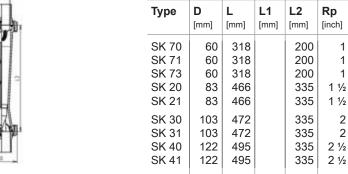


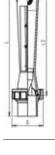
Туре	D [mm]	L [mm]	L1 [mm]	L2 [mm]	Rp [inch]
SK 710 SK 720 SK 730	60 60 60	250 250 250 250	206 206 206	200	1 1 1



Special version PVDF-HP Float in PTFE without magnet With fusion spigots BCF/IR









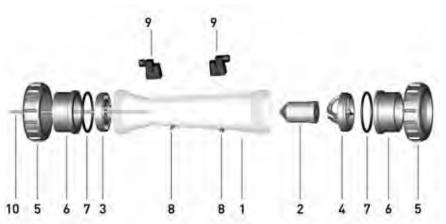
Special version PVDF Float in PVDF (red) without magnet

Dimension L and L1 only valid for socket connection Dimension L2 describes taper tube length

Туре	d [mm]	DN [mm]	Scale range	P' Fl et	PM fus	ibe in -rings in sion sock	Taper tube in PVDF O-rings in FPM IR fusion spigot Code	kg	
SK 10	32	25	50 - 50	0 19	98 806	466	198 803 905	0.520	
SK 11	32	25	100 - 100	0 19	8 806	467	198 803 906	0.520	
SK 20	50	40	200 - 200	0 19	98 806	468	198 803 907	1.220	
SK 21	50	40	300 - 300	0 19	98 806	469	198 803 908	1.220	
SK 30	63	50	600 - 600	0 19	98 806	470	198 803 909	1.785	
SK 31	63	50	1200 - 1200	0 19	808 86	471	198 803 910	1.680	
SK 40	75	65	2000 - 2000	0 -			198 803 911	2.900	
SK 41	75	65	3000 - 3000	0 -			198 803 912	2.900	
Туре	D	L	L (IR-SS)	.1	L2	Rp			
	[mm]	[mm]	[mm] [ı	nm]	[mm]	[inch]			

Туре	D [mm]	L [mm]	L (IR-SS) [mm]	L1 [mm]	L2 [mm]	Rp [inch]
SK 10	60	385	443	341	335	1
SK 11	60	385	443	341	335	1
SK 20	83	403	459	341	335	1½
SK 21	83	403	459	341	335	1½
SK 30	103	417	461	339	335	2
SK 31	103	417	461	339	335	2
SK 40	122	429	453	341	335	2 ½
SK 41	122	429	453	341	335	2 ½

Valve ends and Nuts



Union nut (5)

63

75

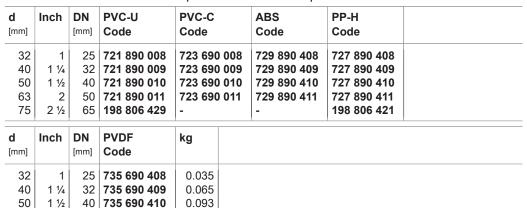
2

2 ½

50

65

Union nut not useable for the special version with taper tube in PVDF





304 +GF+

0.144

0.337

735 690 411

198 806 422



Union end / Socket (6)

For DN65 PVDF only spigot

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
32	1	25	721 500 108	723 800 1	108 729 800 108	727 500 108	735 600 108
40	1 1/4	32	721 500 109	723 800 1	109 729 800 109	727 500 109	735 600 109
50	1 1/2	40	721 500 110	723 800 1	110 729 800 110	727 500 110	735 600 110
63	2	50	721 500 111	723 800 1	111 729 800 111	727 500 111	735 600 111
75	2 ½	65	721 600 112	700 253 8	700 246 112	700 253 866	-
_							
d [mm]	Inch	DN [mm]	PE80 Code	kg			
	Inch 1		Code	kg			
[mm]		[mm]	Code 734 600 108				
[mm] 32	1	[mm] 25	Code 734 600 108	0.015			
[mm] 32 40	1 1 1/4	[mm] 25 32	734 600 108 734 600 109	0.015 0.026			



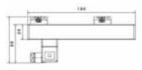
Union end / Spigot (6)

d [mm]	Inch	DN [mm]	PP-H Code	PVDF Code	PE100 Code	kg	
32	1	25	727 508 508	735 608 608	753 608 608	0.027	
40	1 1/4	32	727 508 509	735 608 609	753 608 609	0.042	
50	1 ½	40	727 508 510	735 608 610	753 608 610	0.060	
63	2	50	727 508 511	735 608 611	753 608 611	0.102	
75	2 ½	65	700 256 401	175 483 013	700 246 420	0.300	

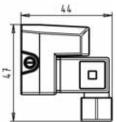


Accessories 4-20 mA sensor For type 335 and type 350

Type	d [mm]	DN [mm]	Corresponds to water scale [l/h]	Code	kg	
GK 15	32	25	50-500	198 335 962	0.150	
GK 15	32	25	100-1000	198 335 963	0.150	
GK 15	40	32	150-1500	198 335 964	0.150	
GK 15	40	32	250-2500	198 335 965	0.150	
GK 15	50	40	200-2000	198 335 966	0.150	
GK 15	50	40	300-3000	198 335 967	0.150	
GK 15	50	40	600-6000	198 335 968	0.150	
GK 15	63	50	600-6000	198 335 969	0.150	
GK 15	63	50	1000-10000	198 335 991	0.150	
GK 15	63	50	1500-15000	198 335 992	0.150	
GK 15	75	65	2000-20000	198 335 993	0.150	
GK 15	75	65	3000-30000	198 335 994	0.150	
GK 15	75	65	8000-60000	198 335 995	0.150	







Accessories Limit contacts GK10/GK11 For type 335/350 and short version

Туре	Code	kg
GK10 (min.) GK11 (max.)	198 335 960 198 335 961	0.035 0.034

Special scale for type 335/350 l/h

d [mm]	DN [mm]	Scale range	Code	kg
32	25	50-500	198 335 861	0.050
32	25	100-1000	198 335 862	0.050
40	32	150-1500	198 335 863	0.050
40	32	250-2500	198 335 864	0.050
50	40	200-2000	198 335 865	0.050
50	40	300-3000	198 335 866	0.050
50	40	600-6000	198 335 867	0.050
63	50	600-6000	198 335 868	0.050
63	50	1000-10000	198 335 869	0.050
63	50	1500-15000	198 335 870	0.050
75	65	2000-20000	198 335 871	0.050
75	65	3000-30000	198 335 872	0.050
75	65	8000-60000	198 335 873	0.050

Special scale for type 335/350 % for H2O

d [mm]	DN [mm]	Scale range	Corresponds to water scale [I/h]	Code	kg
32	25	10-100 %	50-500	198 335 084	0.050
32	25	10-100 %	100-1000	198 335 083	0.003
40	32	10-100 %	150-1500	198 335 069	0.050
40	32	10-100 %	250-2500	198 335 068	0.050
50	40	10-100 %	200-2000	198 335 054	0.050
50	40	10-100 %	300-3000	198 335 053	0.001
50	40	10-100 %	600-6000	198 335 039	0.050
63	50	10-100 %	600-6000	198 335 038	0.002
63	50	10-100 %	1000-10000	198 335 037	0.001
63	50	10-100 %	1500-15000	198 335 036	0.050
75	65	10-100 %	2000-20000	198 335 035	0.050
75	65	10-100 %	3000-30000	198 335 034	0.050
75	65	13.3-100 %	8000-60000	198 335 033	0.050

Special scale for type 335/350 m3/h

d [mm]	DN [mm]	Scale range [m³/h]	Corresponds to water scale	Code	kg	
32	25	0.05 - 0.5	50 - 500	198 335 655	0.050	
32	25	0.1 - 1	100 - 1000	198 335 656	0.050	
40	32	0.15 - 1.5	150 - 1500	198 335 657	0.050	

table continued next page

d [mm]	DN [mm]	Scale range [m³/h]	Corresponds to water scale	Code	kg	
40	32	0.25 - 2.5	250 - 2500	198 335 658	0.050	
50	40	0.2 - 2.0	200 - 2000	198 335 659	0.050	
50	40	0.3 - 3	300 - 3000	198 335 660	0.050	
50	40	0.6 - 6	600 - 6000	198 335 661	0.050	
63	50	0.6 - 6	600 - 6000	198 335 662	0.050	
63	50	1 - 10	1000 - 10000	198 335 663	0.050	
63	50	1.5 - 15	1500 - 15000	198 335 664	0.050	
75	65	2 - 20	2000 - 20000	198 335 665	0.050	
75	65	3 - 30	3000 - 30000	198 335 666	0.008	
75	65	8 - 60	8000 - 60000	198 335 667	0.050	

Special scale for type 335/350 Imp. GPM

d [mm]	DN [mm]	Scale range [gal/min]	Corresponds to water scale [I/h]	Code	kg
32	25	0,183 - 1,83	50-500	198 335 670	0.050
32	25	0,366 - 3,66	100-1000	198 335 671	0.050
40	32	0,55 - 5,5	150-1500	198 335 672	0.050
40	32	0,916 - 9,16	250-2500	198 335 673	0.050
50	40	0,733 - 7,33	200-2000	198 335 674	0.050
50	40	1,09 - 10,9	300-3000	198 335 675	0.050
50	40	2,19 - 21,9	600-6000	198 335 676	0.050
63	50	2,2 - 22	600-6000	198 335 677	0.050
63	50	3,66 - 36,6	1000-10000	198 335 678	0.050
63	50	5,49 - 54,9	1500-15000	198 335 679	0.050
75	65	7,32 - 73,2	2000-20000	198 335 680	0.050
75	65	10,98 - 109,8	3000-30000	198 335 681	0.050
75	65	29,28 - 219,6	8000-60000	198 335 682	0.050

Special scale for type 335/350 US GPM

d [mm]	DN [mm]	Scale range [gal/min]	Corresponds to water scale	Code	kg
32	25	0.22 - 2.2		198 335 685	0.050
32 40	25 32	0.44 - 4.4 0.66 - 6.6		198 335 686 198 335 687	0.050
40	32	1.1 - 11		198 335 688	0.050
50 50	40	0.88 - 8.8 1.32 - 13.2		198 335 689 198 335 690	0.001
50	40	2.64 - 26.4		198 335 691	0.002
63 63	50 50	2.64 - 26.4 4.40 - 44.02		198 335 692 198 335 693	0.050
63	50	6.60 - 66.04		198 335 694	0.050
75 75	65 65	8.80 - 88		198 335 695 198 335 696	0.001 0.001
75 75	65	13.20 - 132 35.2 - 264		198 335 697	0.050

Special scale for type 335/350 Air/0bar/Nm3/h

d [mm]	DN [mm]	Scale range [m³/h]	Corresponds to water scale	Code	kg
32	25	1.5 - 14	50 - 500	198 350 655	0.001
32	25	2.5 - 29	100 - 1000	198 350 656	0.050
40	32	4 - 45	150 - 1500	198 350 657	0.050
40	32	7 - 79	250 - 2500	198 350 658	0.050
50	40	6 - 58	200 - 2000	198 350 659	0.050
50	40	9 - 108	300 - 3000	198 350 660	0.001

table continued next page

d [mm]	DN [mm]	Scale range [m³/h]	Corresponds to water scale	Code	kg
50	40	17 - 174	600 - 6000	198 350 661	0.050
63	50	17 - 175	600 - 6000	198 350 662	0.050
63	50	29 - 301	1000 - 10000	198 350 663	0.050
63	50	53 - 405	1500 - 15000	198 350 664	0.050
75	65	55 - 545	2000 - 20000	198 350 665	0.050
75	65	80 - 758	3000 - 30000	198 350 666	0.050
75	65	-	8000 - 60000	198 350 667	0.050

Special scale for type 335/350 HCI 30-33% I/h

d [mm]	DN [mm]	Scale range	Corresponds to water scale [l/h]	Code	kg
32	25	20 - 405	50-500	198 350 670	0.050
32	25	55 - 866	100-1000	198 350 671	0.001
40	32	90 - 1340	150-1500	198 350 672	0.050
40	32	165 - 2310	250-2500	198 350 673	0.050
50	40	115 - 1660	200-2000	198 350 674	0.050
50	40	190 - 3050	300-3000	198 350 675	0.050
50	40	420 - 4900	600-6000	198 350 676	0.001
63	50	430 - 5090	600-6000	198 350 677	0.050
63	50	750 - 9460	1000-10000	198 350 678	0.050
63	50	1415 - 11570	1500-15000	198 350 679	0.050
75	65	1500 - 17300	2000-20000	198 350 680	0.050
75	65	2175 - 24120	3000-30000	198 350 681	0.050
75	65	-	8000-60000	198 350 682	0.050

Special scale for type 335/350 NaOH 30% I/h

d [mm]	DN [mm]	Scale range	Corresponds to water scale [l/h]	Code	kg	
32	25	4 - 226	50-500	198 350 685	0.050	
32	25	15 - 600	100-1000	198 350 686	0.050	
40	32	30 - 970	150-1500	198 350 687	0.050	
40	32	70 - 1800	250-2500	198 350 688	0.050	
50	40	35 - 1240	200-2000	198 350 689	0.002	
50	40	75 - 2370	300-3000	198 350 690	0.050	
50	40	230 - 4000	600-6000	198 350 691	0.050	
63	50	240 - 4700	600-6000	198 350 692	0.050	
63	50	475 - 7340	1000-10000	198 350 693	0.050	
63	50	1030 - 10330	1500-15000	198 350 694	0.050	
75	65	915 - 11720	2000-20000	198 350 695	0.050	
75	65	1195 - 16040	3000-30000	198 350 696	0.050	
75	65	-	8000-60000	198 350 697	0.050	

Special scale for type 335/350 NaOH 50% I/h

d [mm]	DN [mm]	Scale range	Corresponds to water scale [l/h]	Code	kg
32	25	1 - 55	50-500	198 350 755	0.050
32	25	3 - 192	100-1000	198 350 756	0.050
40	32	6 - 365	150-1500	198 350 757	0.050
40	32	15 - 770	250-2500	198 350 758	0.050
50	40	8 - 520	200-2000	198 350 759	0.050
50	40	15 - 1170	300-3000	198 350 760	0.050
50	40	50 - 2270	600-6000	198 350 761	0.002
63	50	55 - 2300	600-6000	198 350 762	0.050
63	50	140 - 4340	1000-10000	198 350 763	0.050
63	50	420 - 5820	1500-15000	198 350 764	0.050

d [mm]		Scale range	Corresponds to water scale [//h]	Code	kg
75	65	245 - 7590	2000-20000	198 350 765	0.050
75	65	400 - 11120	3000-30000	198 350 766	0.050
75	65	-	8000-60000	198 350 767	0.050

Special scale for short version Water I/h

Туре	Scale range	Code	kg
SK 50 / 500 SK 51 / 510		198 801 386 198 801 387	0.001
SK 51 / 510 SK 52 / 520		198 801 388	0.001
SK 60 / 600 SK 61 / 610		198 801 389 198 801 390	0.001 0.001
SK 62 / 620 SK 70 / 700		198 801 391 198 801 392	0.001 0.001
SK 71 / 710 SK 72 / 720		198 801 393 198 801 394	0.001 0.001
SK 73 / 730	100.0 - 1000.0	198 801 395	0.001

Special scale for short version US GPM

Туре	Scale range [gal/min]	Code	kg
SK 50 / 500 SK 51 / 510	- , ,	198 801 961 198 801 962	0.001 0.001
SK 52 / 520 SK 60 / 600	0,04 - 0,44	198 801 963 198 801 964	0.001
SK 61 / 610	-,	198 801 965	0.001
SK 62 / 620 SK 70 / 700	-,	198 801 966 198 801 967	0.001 0.001
SK 71 / 710 SK 72 / 720	-, - ,-	198 801 968 198 801 969	0.001 0.001
SK 73 / 730		198 801 970	0.001

Special scale for short version Air/0bar/Nm3/h

Туре	Scale range [m³/h]	Code	kg
SK 50 / 500	0,5 - 0,95		0.001
SK 51 / 510	- , - , -	198 801 309	0.001
SK 52 / 520	-,,-	198 801 310	0.001
SK 60 / 600 SK 61 / 610		198 801 311 198 801 312	0.001
	, -,-		
SK 62 / 620	,- ,-	198 801 313	0.001
SK 70 / 700	,,-	198 801 314	0.001
SK 71 / 710	,- ,-	198 801 315	0.001
SK 72 / 720	-,-	198 801 316	0.001
SK 73 / 730	6,0 - 30,0	198 801 317	0.001

Special scale for short version HCI 30 - 33% I/h

Туре	Scale range [I/h]	Code	kg
SK 50 / 500	2,5 - 20	198 806 511	0.001
SK 51 / 510	5 - 40	198 806 512	0.001
SK 52 / 520	10 - 85	198 806 513	0.001
SK 60 / 600	8 - 70	198 806 514	0.001
SK 61 / 610	15 - 125	198 806 515	0.001

table continued next page

Туре	Scale range	Code	kg
SK 62 / 620	20 - 170	198 806 516	0.001
SK 70 / 700	5 - 125	198 806 517	0.001
SK 71 / 710	30 - 260	198 806 518	0.001
SK 72 / 720	50 - 425	198 806 519	0.001
SK 73 / 730	100 - 850	198 806 520	0.001

Special scale for short version NaOH 30% I/h

Туре	Scale range	Code	kg
SK 50 / 500 SK 51 / 510 SK 52 / 520 SK 60 / 600 SK 61 / 610	0.2 - 5 1 - 14 3 - 35 2 - 23 3 - 55	198 806 522 198 806 523 198 806 524	0.001 0.001 0.001 0.002 0.001
SK 62 / 620 SK 70 / 700 SK 71 / 710 SK 72 / 720 SK 73 / 730	5 - 80 3 - 55 6 - 130 10 - 250 40 - 590	198 806 528	0.001 0.001 0.001 0.002 0.001

Special scale for short version NaOH 50% I/h

Туре	Scale range	Code	kg
SK 60 / 600	0,2 - 3,5	198 806 531	0.001
SK 61 / 610	0,5 - 10	198 806 532	0.001
SK 62 / 620	0,5 - 16	198 806 533	0.001
SK 70 / 700	0,5 - 11	198 806 534	0.001
SK 71 / 710	1 - 33	198 806 535	0.001
SK 72 / 720	2 - 80	198 806 536	0.001
SK 73 / 730	10 - 220	198 806 537	0.001

Spare part for variable area flow meter SK10-SK41/SK100-SK410 Standard version float PTFE Without magnet

Туре	d [mm]	DN [mm]	Code	kg
SK 20	50	40	198 807 167	0.096
SK 21	50	40	198 807 171	0.270
SK 30	63	50	198 807 168	0.170
SK 31	63	50	198 807 172	0.450
SK 40	75	65	198 807 169	0.179
SK 41	75	65	198 807 170	0.171

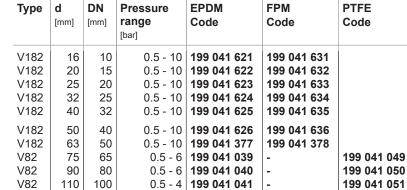
310 +GF+

Process control valves

PROGEF Standard Pressure reducing valve type V182/82 With fusion spigots metric



· Material: PP-H



	1		1	
Type	D	L	Н	H1
	[mm]	[mm]	[mm]	[mm]
V182	70	134	130	100
V182	70	134	130	100
V182	100	174	180	134
V182	100	174	180	134
V182	130	224	230	175
V182	130	224	230	175
V182	150	260	285	210
V82	200	300	350	250
V82	250	360	425	305
V82	300	420	495	345

kg

0.540

0.540

1.020

1.300

2.240

2.240

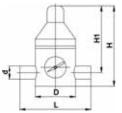
5.700

7.900

12.900

23.300

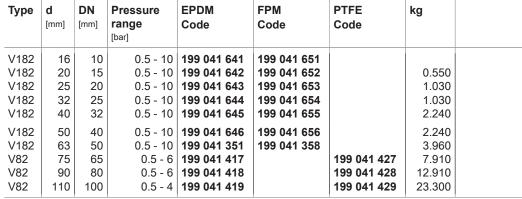




PROGEF Standard Pressure reducing valve type V182/82 With butt fusion spigots IR metric

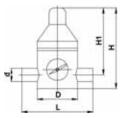
Model:

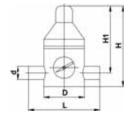
Material: PP-H



_	_			
Type	D	L	Н	H1
	[mm]	[mm]	[mm]	[mm]
V182	70		130	100
V182	70	150	130	100
V182	100	190	180	134
V182	100	190	180	134
V182	130	240	230	175
V182	130	240	230	175
V182	150	260	285	210







Туре	D [mm]	L [mm]	H [mm]	H1 [mm]
V82 V82 V82				

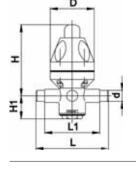


PROGEF Standard Pressure reducing valve type V782 With fusion spigots metric

Model:

• Material: PP-H

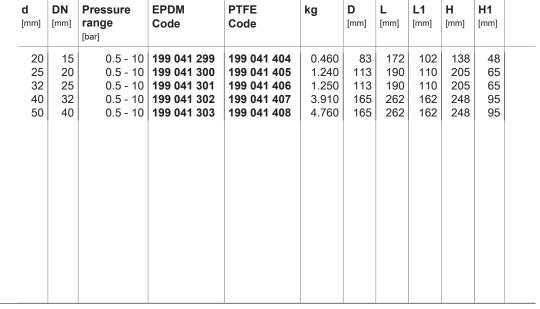
d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	kg	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]
16	10	0.5 - 10	199 041 072	199 041 078	0.450	83	134	102	138	48
20	15	0.5 - 10	199 041 073	199 041 079	0.460	83	134	102	138	48
25	20	0.5 - 10	199 041 074	199 041 080	1.240	113	154	110	205	65
32	25	0.5 - 10		199 041 081	1.250	113	154	110	205	65
40	1	0.5 - 10		199 041 082	3.910	165	224	162	248	95
50	40	0.5 - 10	199 041 077	199 041 083	3.930	165	224	162	248	95



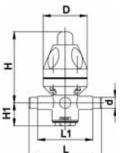
PROGEF Standard Pressure reducing valve type V782 With butt fusion spigots IR metric

Model:

Material: PP-H







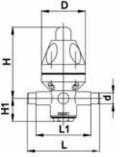


PROGEF Standard Pressure retaining valve type V786 With fusion spigots metric

Model:

Material: PP-H

d DI		re EPDM Code	l	PTFE Code	kg	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
20 25 32 40	10 0.5 15 0.5 20 0.5 25 0.5 32 0.	- 10	41 103 41 104 41 105 41 106	199 041 108 199 041 109 199 041 110 199 041 111 199 041 112 199 041 113	0.450 0.450 1.280 1.280 3.480 4.692	83 83 112 112 165 165	134 134 154 154 224 224	102 102 110 110 162 162	138 138 205 205 248 248	38 38 55 55 85 85	



PROGEF Standard Pressure retaining valve type V786 With butt fusion spigots IR metric

EPDM

Model:

 Material: PP-H DN

Pressure

[mm]	[mm]	range [bar]	Code	Code		[mm]	[mm]	[mm]	[mm]	[mm]	
20	15	0.5 - 10	199 041 431	199 041 437	0.450	83	172	102	138	38	
25	20	0.5 - 10	199 041 432	199 041 438	1.280	112	190	110	205	55	
32	25	0.5 - 10	199 041 433	199 041 439	1.280	112	190	110	205	55	
40	32	0.5 - 4	199 041 434	199 041 440	3.480	165	262	162	248	85	
50	40	0.5 - 4	199 041 435	199 041 441	3.480	165	262	162	248	85	

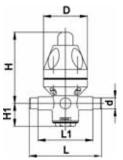
PTFE

kg

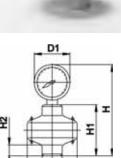
L1

H1









PROGEF Standard Gauge guard type Z700 With manometer

Model:

• Material: PP-H

d [mm]	Pressure range [bar]	Pressure range [psi]	PTFE Code	kg	G_R	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	
25 25 32 32 32	0.0 - 6 0.0 - 10	0.0 - 145.03 0.0 - 87.02 0.0 - 145.03 0.0 - 87.02		0.250 0.250 0.542 0.540	1/4 1/4 1/2 1/2	72 72 100 100	63 63 100 100	129 129 210 210	71 71 90 90	15 15 22 22	



PROGEF Standard Gauge guard type Z701 Without manometer

Model:

• Material: PP-H

4	4	LA	
-		, 8	Ŧ
-	_ d		-

d [mm]	PTFE Code	kg	G_R	D [mm]	H1 [mm]	H2 [mm]
	199 041 008 199 041 009	0.108 0.183	1/4 1/2	72 100	71 90	15 22



PROGEF Standard Water jet suction pump type P20

Model:

• Material: PP-H

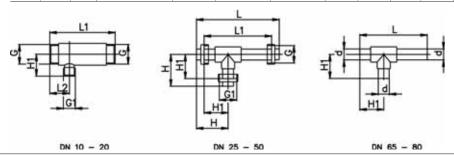
• DN 10-20: BSP parallel female thread

• DN 25-50: Fusion socket metric

• DN 65-80: Fusion spigot metric

d [mm]	DN [mm]	PN	EPDM Code	kg	G [inch]	G1 [inch]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	
16	10	10	199 041 129	0.100	R 3/4	R 3/4		110	40		35	l
20	15	10	199 041 130	0.170	R 1	R 3/4		125	40		35	1
25	20	10	199 041 131	0.270	R 1 1/4	R 3/4		145	45		45	1
32	25	10	199 041 132	0.400	R 1 1/2	R 1 1/2	245	195		96	71	1
40	32	10	199 041 133	0.604	R 2	R2	297	239		116	87	ı
50	40	10	199 041 134	1.090	R 2 1/4	R 2 1/4	369	301		139	105	İ

d [mm]	DN [mm]	PN	EPDM Code	kg	G [inch]	G1 [inch]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	
63	50	10	199 041 135	1.930	R 2 3/4	R 2 3/4	433	351		169	128	
75	65	10	199 041 136	1.603	R 1	-	388				115	
90	80	10	199 041 137	2.570	R 2 3/4	-	465				149	



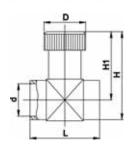


PROGEF Standard Throttle valve type V251 With fusion sockets metric

Model:

Material: PP-H

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg	D [mm]	L [mm]	H [mm]	H1 [mm]
16	10	10	199 041 217	199 041 224	0.032	29	47	57	45
20	15	10	199 041 218	199 041 225	0.051	35	55	66	51
25	20	10	199 041 219	199 041 226	0.080	40	66	80	63
32	25	10	199 041 220	199 041 227	0.135	47	80	96	75
40	32	10	199 041 221	199 041 228	0.243	56	100	111	86
50	40	10	199 041 222	199 041 229	0.419	70	120	133	101
63	50	10	199 041 223	199 041 230	0.600	88	146	158	118

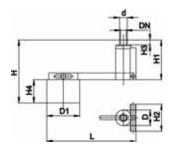


PROGEF Standard Float valve type V140 With fusion spigots metric

Model:

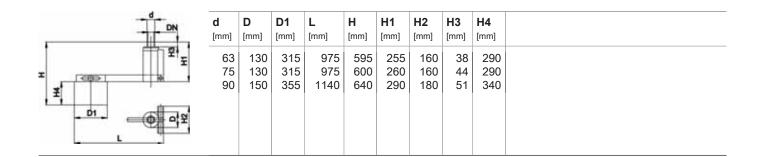
• Material: PP-H

• Lever 1:10



d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg
16	10	6	199 041 165	199 041 174	0.460
20	15	6	199 041 166	199 041 175	0.500
25	20	6	199 041 167	199 041 176	1.382
32	25	6	199 041 168	199 041 177	2.140
40	32	6	199 041 169	199 041 178	3.250
50	40	6	199 041 170	199 041 179	4.400
63	50	6	199 041 171	199 041 180	5.800
75	65	6	199 041 172	199 041 181	7.400
90	80	6	199 041 173	199 041 182	8.200

d	D	D1	L	H	H1	H2	Н3	H4	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
16	45	125	380	270	120	80	14	130	
20	45	125	380	270	120	80	16	130	
25	65	200	530	340	160	110	19	170	
32	65	200	530	345	165	110	22	170	
40	90	225	720	440	210	130	26	210	
50	90	225	720	445	215	130	31	210	



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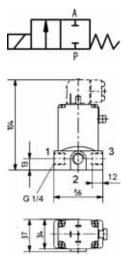
Solenoid valves

PROGEF Standard
Solenoid valve type 166
Function A straight-through valve 2/2 ways
Nominal voltage 24V DC
With G 1/4 line connection

Model:

- Material: PP-H
- With manual override
- · Electrical connection: cable plug
- Protection class IP 65

DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3 4 5	1/4 1/4 1/4	A A A	0.0 - 8.0 0.0 - 4.0 0.0 - 3.0	4 5 6		199 166 005 199 166 006 199 166 007	0.298 1.100 0.292	

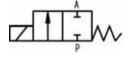


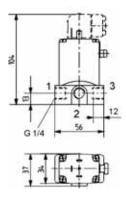
PROGEF Standard Solenoid valve type 166 Function A straight-through valve 2/2 ways Nominal voltage 230V 50Hz ±10% With G 1/4 line connection

- Material: PP-H
- · With manual override
- · Electrical connection: cable plug
- Protection class IP 65

DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3	1/4	А	0.0 - 10.0	4	199 166 010	199 166 015	1.100
4	1/4	Α	0.0 - 5.0	5	199 166 011	199 166 016	1.100
5	1/4	Α	0.0 - 4.5	6	199 166 012	199 166 017	1.100

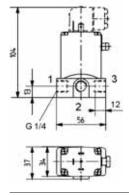












PROGEF Standard Solenoid valve type 166 Function E mixing valve 3/2 ways Nominal voltage 24V DC With G 1/4 line connection

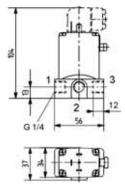
Model:

- · Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65

DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3 4	1/4 1/4	E E	0.0 - 4.0 0.0 - 2.0	4 5	199 166 150 199 166 151	199 166 155 199 166 156	1.100 1.100	





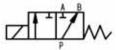


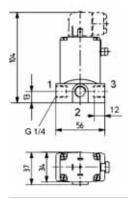
PROGEF Standard Solenoid valve type 166 Function E mixing valve 3/2 ways Nominal voltage 230V 50Hz ±10% With G 1/4 line connection

- · Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65

DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3 4	1/4 1/4	E E	0.0 - 6.0 0.0 - 3.0	4 5	199 166 160 199 166 161	199 166 165 199 166 166	1.100 1.100	







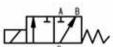
PROGEF Standard Solenoid valve type 166 Function F distribution valve 3/2 ways Nominal voltage 24V DC With G 1/4 line connection

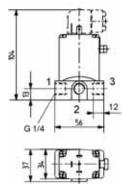
Model:

- · Material: PP-H
- · With manual override
- Electrical connection: cable plug
- Protection class IP 65

DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
4	1/4	F	0.0 - 4.0	5	199 166 201	199 166 206	1.100	







PROGEF Standard
Solenoid valve type 166
Function F distribution valve 3/2 ways
Nominal voltage 230V 50Hz ±10%
With G 1/4 line connection

- · Material: PP-H
- With manual override
- · Electrical connection: cable plug
- Protection class IP 65

DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
4	1/4	F	0.0 - 5.0	5	199 166 211	199 166 216	1.100	

PROGEF® Natural



- Pipes– Butt Fusion System

PROGEF® Natural (natural)

Pressure/temperature diagram for PP PROGEF® Natural

The following pressure/temperature diagram for PROGEF® Natural pipes and fittings is valid for a lifetime of 25 years.

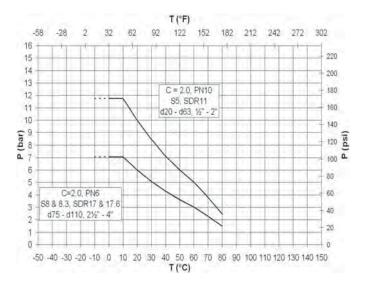
The design factor of 2.0 recommended by GF is incorporated.

It can be used for water or media resembling water, in other words, media which have no derating factor regarding the chemical resistance.

Remark: Please take into account the pressure/ temperature diagrams for valves and special fittings. Becauseof the construction and/or sealing material used, differences are possible when compared with pipes and fittings. This information can be found in the planning fundamentals of the relevant types of valves, respectively special fittings.

Remark: Using PROGEF® Natural at higher temperatures can lead to a discoloration of the material.

In case of applications with temperatures in the range of the dotted lines please contact your GF representative.



P Permissible pressure in bar, psi

T Temperature in °C, °F

PROGEF Natural - System Specification

MaterialPolypropylene Random Copolymer

Colour Unpigmented, translucent

Density ~0.90 g/cm³ (ISO 1183 / ASTM D 792)

Surface tension 30–35 mJ/m²

 $\begin{array}{ll} \mbox{Linear expansion coefficient} & 0.15\,\mbox{mm/m}\,^{\circ}\mbox{K (DIN 53752)} \\ \mbox{E-modulus} & 900\,\mbox{N/mm}^{2}\,(\mbox{ISO 527/ASTM D790)} \end{array}$

Thermal conductivity 0.23 W/mK (EN 12664) Surface resistivity $> 10^{16} \Omega$ (IEC 60093)

Dimension d 20-d 110 in accordance with EN ISO 15494

 $\begin{array}{cc} \textbf{Pressure Rating} & \textbf{Pipes/Fittings/Diaphragm valves:} \\ & \textbf{d 20-d 63 SDR11, PN10, c=2.0} \end{array}$

d75-d110 SDR17.6, PN6, c=2.0

Temperature Rating from 0 °C to 80 °C (<60 °C for valves) (32 °F–176 °F)

Production Fittings/valves: injection moulded

Pipes: extruded

Surface Finish Inner surface Ra ≤ 1 µm (39 µin)

Marking Fittings, pipes and valves are embossed with a permanent identification during the production

process to ensure full traceability:

Lot No Material Dimension Pressure Rating

Testing and Inspection Inclusions

(EN ISO 15494) Visual inspection
Surface finish

Surface finish
Dimension tolerance
Pressure testing

Full product range passed the Initial Type Test (ITT)

Approvals/Conformance (1) FDA CFR 21 177.1520

USP 25 class VI (physiological non-toxic)

Welding Technology BCF Plus, bead and crevice free fusion

IR Plus, infrared fusion (DVS 2207-6)

Butt fusion (DVS 2207-11)

Documentation⁽²⁾ Certificate of Conformance with FDA, USP

EN 10204 2.2 EN 10204 3.1 ASME BPE

Packing Pipes: Capped & single bagged

Fittings/valves: Multiple components single bagged in specified bag

Labeling Brand Name

Product Description Code Number Material Dimension CE-labeling (3) Approvals

Main Applications Uses include cost effective, pure distribution of DI-water and critical biological fluids where

chemical sanitisation is needed. **B**ead and **C**revice **F**ree jointing and minimal metallic leachout ensure the highest product quality. Highly resistant to impact, abrasion and many chemicals

make it ideal for slurries transportation in the semiconductor industry.

[1] For thermoplastic material only

⁽²⁾ On request

^[3] From 2008 on

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PROGEF Natural Pipes, Fittings, Unions, Flanges and Flange Adaptors

		Page
7	Pipes	326
8	Fittings for Butt Fusion	327
	Adaptor fittings for butt fusion	329
1	Flange Adaptors, Flanges and Gaskets for Butt Fusion	334

+GF+

Pipes

PROGEF Natural S5/SDR11 (PN10)

Model



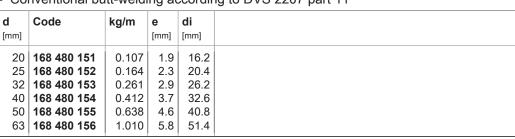
· Colour: natural

• Length: Lengths of 5 m

• Bead and Crevice Free weldable with the new BCF® Plus fusion machine

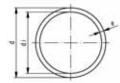
Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)

Conventional butt-welding according to DVS 2207 part 11









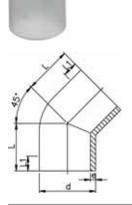
Fittings for Butt Fusion

PROGEF Natural elbow 45° S5/SDR11

Model

- · Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
frining				[min]	Limin	firming
20	BCF, IR	728 158 506	0.007	32	24	1.9
25	BCF, IR	728 158 507	0.002	34	25	2.3
32	BCF, IR	728 158 508	0.019	36	25	2.9
40	BCF, IR	728 158 509	0.037	39	25	3.7
50	BCF, IR	728 158 510	0.054	42	26	4.6
63	BCF, IR	728 158 511	0.097	47	29	5.8



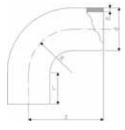
PROGEF Natural bend 90° S5/SDR11 - 0.75d

Model

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11

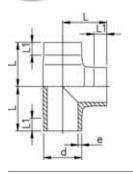
d [mm]	FM	Code	kg	Z [mm]	L [mm]	R [mm]	e [mm]
20	IR, BCF	728 018 606	0.007	38	23	15	1.9
25	IR, BCF	728 018 607	0.012	42	23	19	2.3
32	IR, BCF	728 018 608	0.026	46	22	24	2.9
40	IR, BCF	728 018 609	0.038	51	21	30	3.7
50	IR, BCF	728 018 610	0.065	58	21	37	4.6
63	IR, BCF	728 018 611	0.115	66	21	45	5.8



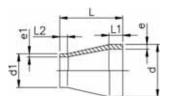


PROGEF Natural tee 90° equal S5/SDR11

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- · Conventional butt-welding according to DVS 2207 part 11



d	FM	Code	kg	L	L1	е
[mm]				[mm]	[mm]	[mm]
20	BCF, IR	728 208 506	0.011	38	24	1.9
25	BCF, IR	728 208 507	0.019	42	26	2.3
32	BCF, IR	728 208 508	0.032	46	26	2.9
40	BCF, IR	728 208 509	0.059	51	23	3.7
50	BCF, IR	728 208 510	0.101	58	22	4.6
63	BCF, IR	728 208 511	0.182	66	20	5.8



PROGEF Natural reducer S5/SDR11

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- · Conventional butt-welding according to DVS 2207 part 11

d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2	e [mm]	e1
[]	[]				[]	[]	[]	[]	[]
25	20	BCF, IR	728 908 537	0.007	50	20	20	2.3	1.9
32	20	BCF, IR	728 908 542	0.010	50	20	20	3.0	1.9
32	25	BCF, IR	728 908 541	0.011	50	20	20	3.0	2.3
40	20	BCF, IR	728 908 548	0.015	58	20	23	3.7	1.9
40	25	BCF, IR	728 908 547	0.016	55	20	20	3.7	2.3
40	32	BCF, IR	728 908 546	0.019	55	20	20	3.7	2.9
50	25	BCF, IR	728 908 554	0.025	60	20	20	4.6	2.3
50	32	BCF, IR	728 908 553	0.027	60	20	20	4.6	2.9
50	40	BCF, IR	728 908 552	0.030	60	20	20	4.6	3.7
63	32	BCF, IR	728 908 560	0.043	65	20	20	5.8	2.9
63	40	BCF, IR	728 908 559	0.047	65	20	20	5.8	3.7
63	50	BCF, IR	728 908 558	0.052	65	20	20	5.8	4.6

EPDM 28 51 85 FPM 28 52 85





PROGEF Natural sanitary union S5/SDR11

Model

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11
- Only EPDM codes meet FDA compliance.

d [mm]	FM	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
20	BCF, IR	728 518 526	728 528 526	0.048	48	107	53	25	1.9
25	BCF, IR	728 518 527	728 528 527	0.076	58	113	56	25	2.3
32	BCF, IR	728 518 528	728 528 528	0.106	65	119	59	25	2.9
40	BCF, IR	728 518 529	728 528 529	0.147	79	126	63	25	3.7
50	BCF, IR	728 518 530	728 528 530	0.194	91	131	65	25	4.6
63	BCF, IR	728 518 531	728 528 531	0.343	111	137	68	25	5.8





PROGEF Natural union bush S5/SDR11

Model:

- · Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11

d	PN	FM	Code	kg	G	L	L1	е
[mm]					[inch]	[mm]	[mm]	[mm]
20	10	BCF, IR	728 648 526	0.012	1	54	26	1.9
25	10	BCF, IR	728 648 527	0.020	1 1/4	57	26	2.3
32	10	BCF, IR	728 648 528	0.029	1 1/2	60	25	2.9
40	10	BCF, IR	728 648 529	0.047	2	63	25	3.7
50	10	BCF, IR	728 648 530	0.072	2 1/4	66	25	4.6
63	10	BCF, IR	728 648 531	0.104	2 3/4	69	25	5.8

Adaptor fittings for butt fusion

PROGEF Natural adaptor socket metric Rp

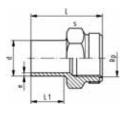






- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP

d [mm]	FM	Rp [inch]	PN	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	BCF, IR	1/2	10	728 918 056	0.014	49	28	32	1,9
25	BCF, IR	3/4	10	728 918 057	0.022	51	28	36	2,3
32	BCF, IR	1	10	728 918 058	0.039	54	28	46	2,9
40	BCF, IR	1 1/4	10	728 918 059	0.057	56	28	55	3,7
50	BCF, IR	1 ½	10	728 918 060	0.085	60	28	64	4,6
63	BCF, IR	2	10	728 918 061	0.140	62	28	80	5,8



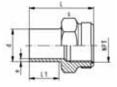
PROGEF Natural adaptor socket metric NPT

Model:

- · Material: PP-R unpigmented
- With butt fusion spigot SDR11 and NPT tapered female thread, reinforced
- · Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- · Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	FM	NPT [inch]	PN	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	BCF, IR	1/2	10	728 914 056	0.016	49	28	32	1.9
25	BCF, IR	3/4	10	728 914 057	0.019	51	28	36	2.3
32	BCF, IR	1	10	728 914 058	0.039	54	28	46	2.9
40	BCF, IR	1 1/4	10	728 914 059	0.052	56	28	55	3.7
50	BCF, IR	1 ½	10	728 914 060	0.085	60	28	64	4.6
63	BCF, IR	2	10	728 914 061	0.140	62	28	80	5.8

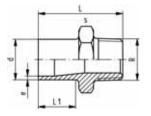




PROGEF Natural adaptor nipple metric R

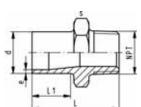
Model

- Material: PP-R unpigmented
- · With butt fusion spigot SDR11 and tapered male thread
- · Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes



d	FM	R	PN	Code	kg	L	L1	s	е	
[mm]		[inch]				[mm]	[mm]	[mm]	[mm]	
20	BCF, IR	1/2	10	728 918 106	0.013	51	28	32	1,9	
25	BCF, IR	3/4	10	728 918 107	0.017	52	28	36	2,3	
32	BCF, IR	1	10	728 918 108	0.027	55	28	46	2,9	
40	BCF, IR	1 1/4	10	728 918 109	0.037	58	28	55	3,7	
50	BCF, IR	1 ½	10	728 918 110	0.052	60	28	65	4,6	
63	BCF, IR	2	10	728 918 111	0.092	67	28	80	5,8	





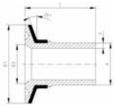
PROGEF Natural adaptor nipple metric NPT

Model:

- Material: PP-R unpigmented
- With butt fusion spigot SDR11 and NPT tapered male thread
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d	NPT	PN	FM	Code	kg	L	L1	s	е
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]
20	1/2	10	BCF, IR	728 914 106	0.013	51	28	32	1.9
25	3/4	10	BCF, IR	728 914 107	0.017	52	28	36	2.3
32	1	10	BCF, IR	728 914 108	0.027	55	28	46	2.9
40	1 1/4	10	BCF, IR	728 914 109	0.039	58	28	55	3.7
50	1 ½	10	BCF, IR	728 914 110	0.054	60	28	65	4.6
63	2	10	BCF, IR	728 914 111	0.093	67	28	80	5.8





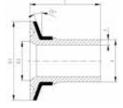
PROGEF Natural sanitary adaptor Connection to ISO 1127

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- · Stainless steel reinforcement ring

d [mm]	FM	DN [mm]	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
20	BCF, IR	15	10	728 598 006	0.031	50	18	49.0	1,9
25	BCF, IR	20	10	728 598 008	0.029	50	23	49.5	2,3
25	BCF, IR	25	10	728 598 009	0.029	50	29	49.5	2,3
32	BCF, IR	25	10	728 598 010	0.030	50	29	53.0	2,9
40	BCF, IR	32	10	728 598 014	0.054	64	38	54.0	3,7
50	BCF, IR	40	10	728 598 016	0.064	64	44	61.0	4,6
63	BCF, IR	50	10	728 598 018	0.097	77	56	67.0	5,8





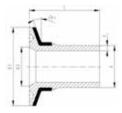
PROGEF Natural sanitary adaptor Connection to DIN 32676

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- · Stainless steel reinforcement ring

d [mm]	FM	DN [mm]	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
20	BCF, IR	15	10	728 598 056	0.013	34	16	49.0	1,9
20	BCF, IR	20	10	728 598 057	0.013	34	20	49.0	1,9
25	BCF, IR	25	10	728 598 059	0.032	50	26	49.5	2,3
32	BCF, IR	32	10	728 598 062	0.031	50	32	53.0	2,9
40	BCF, IR	40	10	728 598 065	0.036	50	38	54.0	3,7
50	BCF, IR	50	10	728 598 067	0.060	64	50	61.0	4,6





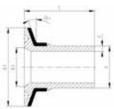
PROGEF Natural sanitary adaptor Connection to DIN 3017

Model:

- · Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- · Stainless steel reinforcement ring

d	FM	DN	PN	Code	kg	D1	D3	L	е
[mm]		[mm]				[mm]	[mm]	[mm]	[mm]
25	BCF, IR	25	10	728 598 259	0.031	50	22	49.5	2,3
32	BCF, IR	32	10	728 598 262	0.031	50	32	53.0	2,9
40	BCF, IR	40	10	728 598 265	0.033	50	35	54.0	3,7
50	BCF, IR	50	10	728 598 267	0.061	64	49	61.0	4,6
63	BCF, IR	65	10	728 598 269	0.093	78	60	67.0	5,8





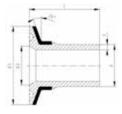
PROGEF Natural sanitary adaptor Connection to ISO 2852

Model:

- · Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- · Stainless steel reinforcement ring

d [mm]	FM	DN [mm]	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
25	BCF, IR	25	10	728 598 309	0.027	51	22	50	2,3
32	BCF, IR	32	10	728 598 312	0.031	51	32	53	2,9
40	BCF, IR	40	10	728 598 315	0.033	51	35	54	3,7
50	BCF, IR	50	10	728 598 317	0.061	64	49	61	4,6
63	BCF, IR	65	10	728 598 319	0.093	78	60	67	5,8





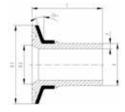
PROGEF Natural sanitary adaptor Connection to ASME BPE

Model:

- · Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- · Stainless steel reinforcement ring
- * Without stainless steel reinforcement ring

d	FM	Inch	PN	Code	kg	D1	D3	L	е
[mm]						[mm]	[mm]	[mm]	[mm]
* 20	BCF, IR	3/4	10	728 598 357	0.005	25	16	49	1.9
25	BCF, IR	1	10	728 598 359	0.029	51	22	50	2.3
32	BCF, IR	1 1/4	10	728 598 362	0.030	51	35	53	2.9
40	BCF, IR	1 1/2	10	728 598 365	0.037	51	35	54	3.7
50	BCF, IR	2	10	728 598 367	0.063	64	48	61	4.6
63	BCF, IR	2 1/2	10	728 598 369	0.096	78	60	67	5.8





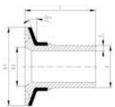
PROGEF Natural sanitary adaptor Connection to JIS G3447

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- · Stainless steel reinforcement ring

d	FM	DN	PN	Code	kg	D1	D3	L	е
[mm]						[mm]	[mm]	[mm]	[mm]
20	BCF, IR	15 A	10	728 598 406	0.014	34	18	49.0	1,9
25	BCF, IR	1 S	10	728 598 408	0.032	50	23	49.5	2,3
32	BCF, IR	1 1/4 S	10	728 598 410	0.033	50	30	53.0	2,9
40	BCF, IR	1 1/2 S	10	728 598 414	0.033	50	35	54.0	3,7
50	BCF, IR	2 S	10	728 598 416	0.061	64	48	61.0	4,6
63	BCF, IR	2 1/2 S	10	728 598 418	0.093	78	60	67.0	5,8





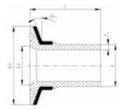
PROGEF Natural sanitary adaptor Connection to 3A standard

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- · Stainless steel reinforcement ring
- * Without stainless steel reinforcement ring

d [mm]	FM	Inch	PN	Code	kg	D1	D3 [mm]	L [mm]	e [mm]
						[]	[]	r	[]
* 20	BCF, IR	3/4	10	728 598 207	0.006	25	16	49.0	1,9
25	BCF, IR	1	10	728 598 209	0.031	50	22	49.5	2,3
32	BCF, IR	1 1/2	10	728 598 213	0.032	50	35	53.0	2,9
40	BCF, IR	1 1/2	10	728 598 215	0.033	50	35	54.0	3,7
50	BCF, IR	2	10	728 598 217	0.062	64	48	61.0	4,6
63	BCF, IR	2 1/2	10	728 598 219	0.093	78	60	67.0	5,8





PROGEF Natural sanitary adaptor Connection to membrane manometer

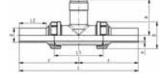
Model

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- · Stainless steel reinforcement ring

d FM DN PN Code kg e D1 D3 L
[mm] [mm] [mm] [mm] [mm]
20 BCF, IR 15 10 728 598 516 0.029 1,9 50 34 49
25 BCF, IR 20 10 728 598 518 0.027 2,3 50 34 50
32 BCF, IR 25 10 728 598 520 0.032 2,9 50 34 53

28 31 81





PROGEF Natural installation fitting type 318 For butt fusion systems metric

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- · Union end with butt fusion spigot PP-R

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

Attention:

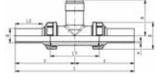
· sensor length depends on installation fitting

d [mm]	DN [mm]	PN	FM	EPDM Code	FPM Code	kg
20	15	10	BCF, IR	728 318 106	728 318 136	0.250
25	20	10	BCF, IR	728 318 107	728 318 137	0.190
32	25	10	BCF, IR	728 318 108	728 318 138	0.250
40	32	10	BCF, IR	728 318 109	728 318 139	0.356
50	40	10	BCF, IR	728 318 110	728 318 140	0.510
63	50	10	BCF, IR	728 318 111	728 318 141	0.800

d [mm]	D [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	e [mm]	Sensor Type
20	45	99	198	90	38	76	1.9	flow X0, pH XX
25	55	107	214	100	42	78	2.3	flow X0, pH XX
32	62	115	230	110	41	81	2.9	flow X0, pH XX
40	75	118	236	110	42	85	3.7	flow X0, pH XX
50	84	126	252	120	44	89	4.6	flow X0, pH XX
63	101	134	268	130	45	95	5.8	flow X0, pH XX

27 31 80





PROGEF Natural installation fitting type 318 For butt fusion systems metric

Model:

- · Body and union nut PVDF
- Threaded outlet 1 1/4" NPSM
- · Union end with butt fusion spigot PP-R

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

Attention:

· sensor length depends on installation fitting

d [mm]	DN [mm]	PN	FM	EPDM Code	FPM Code	kg
20	15	10	BCF, IR	728 318 006	728 318 036	0.250
25	20	10	BCF, IR	728 318 007	728 318 037	0.355
32	25	10	BCF, IR	728 318 008	728 318 038	0.427
40	32	10	BCF, IR	728 318 009	728 318 039	0.700
50	40	10	BCF, IR	728 318 010	728 318 040	0.850
63	50	10	BCF, IR	728 318 011	728 318 041	1.182

d [mm]	D [mm]	Z [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	e [mm]	Sensor Type
20	15	00	100	00	20	76	1.0	flow VO all VV
20 25	45 55		198 214	90	38 42	76 78	1.9	flow X0, pH XX flow X0, pH XX
32	62	_	230	110	1	81	2.9	flow X0, pH XX
40	75		236	110		85	3.7	flow X0, pH XX
50	84	126	252	120	44	89	4.6	flow X0, pH XX
63	101	134	268	130	45	95	5.8	flow X0, pH XX

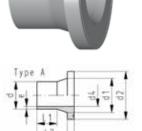
Flange Adaptors, Flanges and Gaskets for Butt Fusion





- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

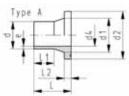
d	DN	FM	Code	kg	d1	d2	d4	L	L1	L2	е
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	15	WNF/IR	728 798 706	0.015	27	45	16	50	29	7	1.9
25	20	WNF/IR	728 798 707	0.028	33	58	20	52	27	9	2.3
32	25	WNF/IR	728 798 708	0.042	40	68	26	54	28	10	3.0
40	32	WNF/IR	728 798 709	0.064	50	78	32	56	25	11	3.7
50	40	WNF/IR	728 798 710	0.092	61	88	40	62	32	12	4.6
63	50	WNF/IR	728 798 711	0.142	75	102	51	68	38	14	5.8



Flange Adapter - ANSI Serrated, PN 10, Natural PP

	•	•				•		•		
d	FM	Code	kg	е	d1	d2	d4	L	L1	L2
[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	WNF/IR	728 798 706	0.015	1.9	27	45	16	50	29	7
25	BCF, IR	728 798 657	0.028	2.3	33	54	20	52	27	9
32	BCF, IR	728 798 658	0.042	3.0	40	63	26	54	28	10
40	BCF, IR	728 798 659	0.064	3.7	50	73	32	56	25	11
50	BCF, IR	728 798 660	0.091	4.6	61	82	40	62	32	12
63	WNF/IR	728 798 711	0.142	5.8	75	102	51	68	38	14
75	IR	728 798 787	0.202	4.5	89	122	66	70	16	
90	IR	728 798 788	0.271	5.4	105	138	79	79	17	
110	IR	728 798 789	0.354	6.6	125	158	96	82	18	





27 70 04 27 70 05

Backing flange PP-V For butt fusion systems metric

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- · With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10
- * Combined version, metric-ANSI

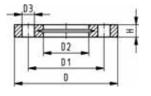
AL: number of holes

1) Suitable for socket- and butt fusion systems (no pictograph on flange)

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
1) 20	15	16	727 700 406	0.093	95	65.0	28	14	16	4	M12
1) 25	20	16		0.120	105		34	14	17	4	M12
1) 32	25	16	727 700 408	0.151	115	85.0	42	14	18	4	M12
1) 40	32	16	727 700 409	0.244	140	100.0	51	18	20	4	M16
1) 50	40	16	727 700 410	0.297	150	110.0	62	18	22	4	M16
1) 63	50	16	727 700 411	0.362	165	125.0	78	18	24	4	M16



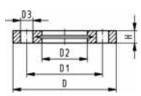




27 70 14 27 70 15







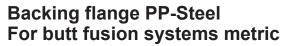
Backing flange PP-V For butt fusion systems Inch ANSI

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- · With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- · UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150
- 1) Suitable for socket- and butt fusion systems (no pictograph on flange) AL: number of holes
- * Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1 1/2	15	20	16	727 701 406	0.091	95	60.0	28	16	16	4	M12
1 3/4	20	25	16	727 701 407	0.120	105	70.0	34	16	17	4	M12
₁ 1	25	32	16	727 701 408	0.147	115	79.0	42	16	18	4	M12
1 1 1/4	32	40	16	727 701 409	0.246	140	89.0	51	16	20	4	M16
1 1 1/2	40	50	16	727 701 410	0.299	150	98.0	62	16	22	4	M16
12	50	63	16	727 701 411	0.361	165	121.0	78	19	24	4	M16
1 2 1/2	65	75	16	727 701 412	0.492	185	140.0	92	19	26	4	M16
3	80	90	16	727 701 513	0.607	200	152.0	108	19	27	4	M16
4	100	110	16	727 701 514	0.736	229	190.0	128	19	28	8	M16
10	250	250	16	727 701 521	2.241	406	362.0	288	26	38	12	M20
10	250	280	16	727 701 522	2.173	406	362.0	294	26	38	12	M20
12	300	315	16	727 701 523	3.627	483	432.0	338	26	42	12	M20

27 70 02 27 70 03



Model:



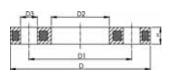
UV-resistant. Applicable for outside applications

Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

• Bolt circle PN 10

AL: number of holes



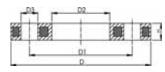


d	DN	PN	Code	kg	D	D1	D2	D3	Н	AL	sc	
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]			
20	15	16	727 700 206	0.216	95	65	28	14	12	4	M12	
25	20	16	727 700 207	0.279	105	75	34	14	12	4	M12	
32	25	16	727 700 208	0.429	115	85	42	14	16	4	M12	
40	32	16	727 700 209	0.621	140	100	51	18	16	4	M16	
50	40		727 700 210	0.722	150	110	62	18	20	4	M16	
63	50	16	727 700 211	1.084	165	125	78	18	20	4	M16	

27 70 12







Backing flange PP-Steel For butt fusion systems Inch ANSI

Model:

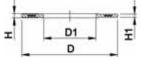
- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150

AL: number of holes

d [inch]	DN [mm]	d [mm]	PN	Code	kg	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	sc
1/2	15	20	16	727 701 206	0.213	60	28	16	95	12	4	M12
3/4	20	25	16	727 701 207	0.260	70	34	16	105	12	4	M12
1	25	32	16	727 701 208	0.416	79	42	16	115	16	4	M12
1 1/4	32	40	16	727 701 209	0.730	89	51	16	140	16	4	M16
1 ½	40	50	16	727 701 210	0.809	98	62	16	150	18	4	M16
2	50	63	16	727 701 211	0.866	121	78	19	165	18	4	M16
2 ½	65	75	16	727 701 212	1.117	140	92	19	185	18	4	M16
3	80	90	16	727 701 313	1.499	152	108	19	200	20	4	M16
4	100	110	16	727 701 314	1.739	190	128	19	229	20	8	M16
8	200	200	16	727 701 319	5.440	298	235	22	340	27	8	M20
8	200	225	16	727 701 320	5.621	298	238	22	340	27	8	M20

EPDM 48 44 07 FPM 49 44 07





Profile flange gasket metric

Model:

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore EPDM, 75° Shore FPM
- EPDM: approved acc. to DVGW W 270, KTW recommendation
- · Centering on the inner diameter of the screw crown
- material steel insert: carbon steel

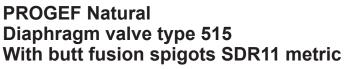
di FA are the suitable inner diameters of flange adaptors

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]	
20	15	16	748 440 706	749 440 706	0.013	51	20	4	3	10 - 20	
25	20	16	748 440 707	749 440 707	0.014	61	22	4	3	12 - 22	
32	25	16	748 440 708	749 440 708	0.019	71	28	4	3	18 - 28	
40	32	16	748 440 709	749 440 709	0.026	82	40	4	3	30 - 40	
50	40	16	748 440 710	749 440 710	0.039	92	46	4	3	36 - 46	
63	50	16	748 440 711	749 440 711	0.050	107	58	5	4	48 - 58	

PROGEF Natural Hand-Operated and Actuated Valves

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Diaphragm Valves

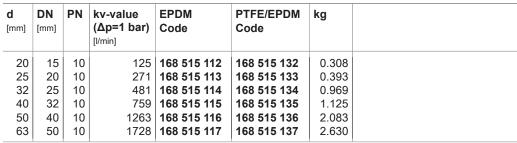




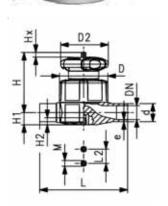
- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- · Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

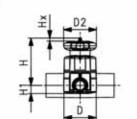
- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

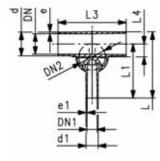


d [mm]	D [mm]	D2 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]
20	65	65	124	25	73	14	12	M6	7
25	80	65	144	25	81	18	12	M6	10
32	88	87	155	25	107	22	12	M6	13
40	101	87	176	45	115	26	15	M8	15
50	117	135	193	45	148	32	15	M8	19
63	144	135	223	45	166	39	15	M8	25









PROGEF Natural Diaphragm valve type 519 With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

	-	_					_			
d [mm]	d1 [mm]	Valve Size d	DN [mm]	DN1 [mm]	DN2 [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	20	20	15	15	15	10	57	168 519 101	168 519 301	0.321
25	20	25	20	15	20	10	89	168 519 103	168 519 303	0.397
25	25	25	20	20	20	10	118	168 519 104	168 519 304	0.399
32	20	25	25	15	20	10	80	168 519 107	168 519 307	0.424
32	25	25	25	20	20	10	105	168 519 108	168 519 308	0.426
32	32	32	25	25	25	10	231	168 519 109	168 519 309	0.980
40	20	32	32	15	25	10	85	168 519 112	168 519 312	1.008
50	20	25	40	15	20	10	86	168 519 118	168 519 318	0.485
50	25	32	40	20	25	10	160	168 519 119	168 519 319	1.054
50	32	32	40	25	25	10	206	168 519 120	168 519 320	1.056
63	20	25	50	15	20	10	84	168 519 125	168 519 325	0.524
63	25	32	50	20	25	10	150	168 519 126	168 519 326	1.097
63	32	32	50	25	25	10	184	168 519 127	168 519 327	1.100

d [mm]	D [mm]	D2 [mm]	L [mm]	L1 [mm]	L3 [mm]	L4 [mm]	H [mm]	Lift = Hx [mm]	e [mm]	e1 [mm]
20	65	65	117	96	162	12	75	7	1.9	1.9
25	80	65	133	108	162	16	80	10	2.3	1.9
25	80	65	133	108	162	16	80	10	2.3	2.3
32	80	65	142	120	162	19	84	10	2.9	1.9
32	80	65	142	120	162	19	84	10	2.9	2.3
32	88	87	145	120	160	19	107	13	2.9	2.9
40	88	87	149	128	180	23	115	13	3.7	1.9
50	80	65	160	134	180	27	97	10	4.6	1.9
50	88	87	160	134	180	28	120	13	4.6	2.3
50	88	87	160	134	180	28	120	13	4.6	2.9
63	80	65	177	144	180	33	104	10	5.8	1.9
63	88	87	177	144	180	35	127	13	5.8	2.3
63	88	87	177	144	180	35	127	13	5.8	2.9

Diaphragm valves pneumatic





- Material: PP-R unpigmented
- · Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

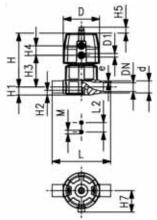
Option

• Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg	
20	15	6	125	168 615 112	0.466	
25	20	6	271	168 615 113	0.900	
32	25	6	481	168 615 114	1.063	
40	32	6	759	168 615 115	1.744	
50	40	6	960	168 615 116	2.203	
63	50	6	1181	168 615 117	2.979	

d [mm]	D [mm]	D1_G [inch]	[mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/	124	25	101	14	12	60	43	M6	7	1.9
25	96	1/	144	25	132	18	12	73	57	M6	10	2.3
32	96	1/	154	25	143	22	12	84	57	M6	13	2.9
40	120	1/	174	45	173	26	15	99	69	M8	14	3.7
50	120	1/	194	45	193	32	15	119	69	M8	16	4.6
63	120	1/	224	45	205	39	15	132	69	M8	16	5.8





PROGEF Natural Diaphragm valve DIASTAR Ten FC (Fail safe to close) With butt fusion spigots SDR11 metric

Model:

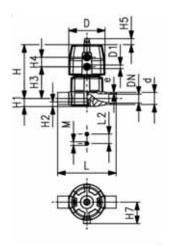
- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE Code	kg
20	15	10/6*	125	168 625 112	168 625 132	0.502
25	20	10/6*	271	168 625 113	168 625 133	0.987
32	25	10/6*	481	168 625 114	168 625 134	1.155
40	32	10/6*	759	168 625 115	168 625 135	1.914
50	40	10/6*	1263	168 625 116	168 625 136	3.371
63	50	10/5*	1728	168 625 117	168 625 137	3.928



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9
40	120	1/4	174	45	173	26	15	99	26	26	69	M8	15	3.7
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8



PROGEF Natural Diaphragm valve DIASTAR Ten FO (Fail safe to open) With butt fusion spigots SDR11 metric

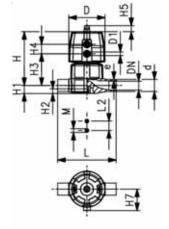
Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

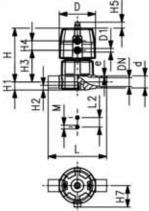
Working Pressure: one side



d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg
20	15	10/6*	125	168 645 112	0.442
25	20	10/6*	271	168 645 113	0.801
32	25	10/6*	481	168 645 114	0.954
40	32	10/6*	759	168 645 115	1.534
50	40	10/6*	1263	168 645 116	3.251
63	50	10/5*	1728	168 645 117	3.810

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8	





PROGEF Natural Diaphragm valve DIASTAR Ten DA (Double acting) With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

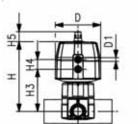
Working Pressure: one side

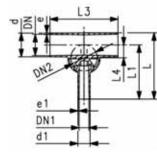
d [mm]	DN [mm]	PN* [bar]	kv-va (∆p=′	ılue 1 bar)	EPD Code			kg							
20	15	10/6*		125	168	655 11	2	0.426							
25	20	10/6*		271	168	655 11	3	0.765							
32	25	10/6*		481	168	655 11	4	0.924							
40	32	10/6*		759	168	655 11	5	1.474							
50	40	10/6*		1263	168	655 11	6	2.501							
63	50	10/5*		1728	168	655 11	17	3.060							
d	D	D1_G	L	L2	Н	H1	H2	Н3	H4	Н5	Н7	M	Lift =	е	
[mm]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm	i] [mm]	[mm]	[mm]	[mm]		Hx [mm]	[mm]	

d	D	D1_G	L	L2	Н	H1	H2	H3	H4	H5	H7	M	Lift =	е
[mm]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		Hx	[mm]
													[mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8









PROGEF Natural Diaphragm valve DIASTAR Ten FC (Fail safe to close) With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Smallest possible dead space

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

d [mm]	d1 [mm]	Valve Size d	DN [mm]	DN1 [mm]	DN2 [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	
20	20	20	15	15	15	10/6*	57	168 629 101	168 629 301	
25	20	25	20	15	20	10/6*	89	168 629 103	168 629 303	
25	25	25	20	20	20	10/6*	118	168 629 104	168 629 304	
32	20	25	25	15	20	10/6*	80	168 629 107	168 629 307	
32	25	25	25	20	20	10/6*	105	168 629 108	168 629 308	
32	32	32	25	25	25	10/6*	231	168 629 109	168 629 309	
40	20	32	32	15	25	10/6*	85	168 629 112	168 629 312	
50	20	25	40	15	20	10/6*	86	168 629 118	168 629 318	
50	25	32	40	20	25	10/6*	160	168 629 119	168 629 319	
50	32	32	40	25	25	10/6*	206	168 629 120	168 629 320	
63	20	25	50	15	20	10/6*	84	168 629 125	168 629 325	
63	25	32	50	20	25	10/6*	150	168 629 126	168 629 326	
63	32	32	50	25	25	10/6*	184	168 629 127	168 629 327	
d	D	D1 I	1	1 1:	3 14	1 H	Н3 Н4	H5 Lift =	e e1	

d	D	D1	L	L1	L3	L4	Н	НЗ	H4	H5	Lift =	е	e1
[mm]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Hx [mm]	[mm]	[mm]
20	68	1/8	117	96	162	12	104	71	25	16	7	1.9	1.9
25	96	1/8	133	108	162	16	131	72	25	16	10	2.3	1.9
25	96	1/8	133	108	162	16	131	72	25	16	10	2.3	2.3
32	96	1/8	142	120	162	19	135	76	25	16	10	2.9	1.9
32	96	1/8	142	120	162	19	135	76	25	16	10	2.9	2.3
32	96	1/8	145	120	160	19	143	93	25	16	13	2.9	2.9
40	96	1/8	149	128	180	23	151	101	25	16	13	3.7	1.9
50	96	1/8	160	134	180	27	148	90	25	16	10	4.6	1.9
50	96	1/8	160	134	180	28	156	106	25	16	13	4.6	2.3
50	96	1/8	160	134	180	28	156	106	25	16	13	4.6	2.9
63	96	1/8	177	144	180	33	155	96	25	16	10	5.8	1.9
63	96	1/8	177	144	180	35	163	113	25	16	13	5.8	2.3
63	96	1/8	177	144	180	35	163	113	25	16	13	5.8	2.9

PROGEF® Plus General Information



- PipesButt Fusion System

PROGEF Plus - System Specification

Beta PP-H 100 State-of-the-art PP Material

(Beta Polypropylene Homopolymer) (Polypropylene) d250-d315

d20-d225 RAL 7032 pebble grey RAL 7032 pebble grey Colour

Density ~0.90 g/cm3 (ISO 1183/ASTM D792) ~0.90 g/cm³ (ISO 1183 / ASTM D 792)

 $31 \, \text{mJ/m}^2$ $24 \, \text{mJ/m}^2$ Surface tension

Linear expansion coefficient 0.16 mm/mK (DIN 53752) 0.16-0.18 mm/mK (DIN 53752) 1300N/mm² (ISO 527/ASTM D 790) 900 N/mm² (ISO 527/ASTM D 790)

Thermal conductivity 0.23 W/mK (EN 12664) 0.23 W/mK (EN 12664) >1016 Ω (IEC 60093) >1016 Ω (IEC 60093) Surface resistivity

Dimension d20-d315 in accordance to EN ISO 15494

Pressure Rating Pipes/Fittings/Diaphragm and ball valves: Pipes/Fittings:

> d20-d225 SDR11, PN10, c=2.0d250-d315 SDR11, PN10, c=2.0d50-d225 SDR17.6, PN6, c=2.0d250-d315 SDR17.6, PN6, c=2.0

Butterfly valves: d63-d225, PN10

From 0°C to 80°C (32°F-176°F) **Temperature Rating**

Production Fittings/valves: injection moulded

Pipes: extruded

Treatment: Every component is specially cleaned according to a process defined by +GF+. Pipes and fittings are silicon-, oil- and dustfree. Additional specifications for valves. Products especially

suitable for the paint and microelectronics industry.

Surface Finish Inner surface Ra $\leq 1.0 \, \mu m \, (39 \, \mu in)$ for components d 20 – d 110

Inner surface Ra $\leq 1.5 \,\mu m$ (59 μ in) for components d 125 – d 315

Marking All components are embossed with a permanent identification during the production process to

ensure full traceability:

Lot No Material Dimension Pressure Rating

Testing and Inspection Visual inspection

(EN ISO 15494) Surface finish Dimension tolerance Pressure testing

Full product range passed the Initial Type Test (ITT)

FDA CFR 21 177.1520 Approvals/Conformance[1]

USP 25 class VI (physiological non-toxic)

Welding Technology IR Plus, infrared fusion (DVS 2207-6): d20-d225

Butt fusion (DVS 2207-11): d20-d315

Documentation^[2] EN 10204 2.2 / EN 10204 3.1

Pipes: Capped and double bagged in specified bag **Packing**

Fittings/valves: Each component double bagged in specified bag

Brand Name Labeling

Product Description Code Number Material Dimension CE-labeling [3] Approvals

Due to the special treatment, PROGEF Plus piping systems are suitable for economical delivery of Main Applications

ultrapure water in semiconductor and TFT/FPD applications and ensure high quality in the paint

industry. Highly resistant to impact, abrasion and many chemicals.

[1] For thermoplastic material only [2] On request [3] From 2008 on

PROGEF Plus Pipes, Fittings, Unions, Flanges and Flange Adaptors

		Page
	Pipes	348
	Fittings for Butt Fusion	349
	Unions for Butt Fusion	353
Type A	Flange Adaptors, Flanges and Gaskets for Butt Fusion	354
	Unions for Socket Fusion	358

Pipes

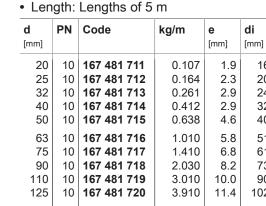
PROGEF Plus S5/SDR11 (PN10)

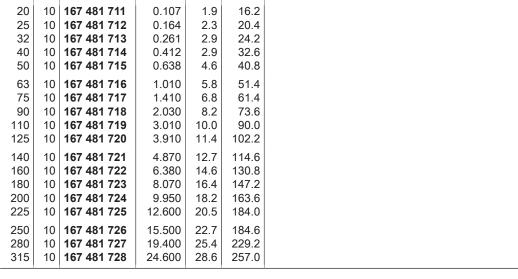


• DIN 8077 / 8078 - DIBT Z-40.23-4

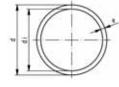
Closed with caps and double bagged (LDPE-foil)

• Colour: RAL 7032 pebble grey









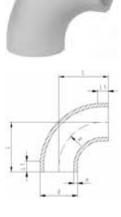
Fittings for Butt Fusion

PROGEF Plus bend 90° S5/SDR11

Model:

- · Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- · Cleaned and double bagged

			55			ı
d	FM	Code	L	L1	R	е
[mm]			[mm]	[mm]	[mm]	[mm]
20	IR	727 018 681	38	23	15	1,9
25	IR		42	23	19	2,3
32	IR		46	22	24	2,9
40	IR	727 018 684	51	21	30	3,7
50	IR	727 018 685	58	21	37	4,6
63	IR	727 018 686	66	21	45	5,8
75	İR		100	20	90	6,8
90	IR		100	20	90	8,2
110	IR		141	25	130	10,0
125	IR	727 018 475	140	15	125	11,4
140	IR	727 018 476	155	15	140	12,7
160	IR		175	15	160	14,6
180	IR		195	15	180	16,4
200	IR	727 018 479	215	15	200	18,2
225	IR	727 018 480	245	20	225	20,5
250		727 018 450	256	49	232	22,7
280		727 018 451	286	44	262	25,4
315		727 018 452	321	51	297	28,6



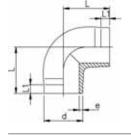
PROGEF Plus elbow 90° S5/SDR11

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- · Cleaned and double bagged

d [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
20	IR	727 108 581	38	25	1,9
25	IR	727 108 582	42	26	2,3
32	IR	727 108 583	46	27	2,9
40	IR	727 108 584	51	22	3,7
50	IR	727 108 585	58	23	4,6
63	IR	727 108 586	66	21	5,8

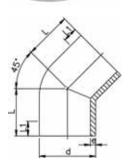




PROGEF Plus elbow 45° S5/SDR11

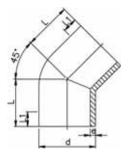
Model:

- Material: PP-H
- · Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- · Cleaned and double bagged
- Long version for d250, d280 and d315
- ¹ Material: PP-R



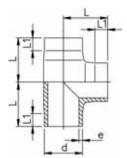
d [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
20	IR	727 158 581	32	24	1,9
25	IR	727 158 582	34	25	2,3
32	IR	727 158 583	36	25	2,9
40	IR	727 158 584	39	25	3,7
50	IR	727 158 585	42	26	4,6
63	IR	727 158 586	47	29	5,8
75	IR	727 158 587	49	29	6,8
90	IR	727 158 588	57	34	8,2

table continued next page



d	FM	Code	L	L1	е
[mm]			[mm]	[mm]	[mm]
110	IR	727 158 589	70	43	10,0
125	IR	727 158 590	79	48	11,4
140	IR	727 158 591	88	55	12,7
160	IR	727 158 592	100	60	14,6
200	IR	727 158 594	124	75	18,2
225	IR	727 158 595	140	85	20,5
1 250		727 158 596	225	133	22,7
1 280		727 158 597	235	143	25,4
1 315		727 158 598	255	154	28,6





PROGEF Plus tee 90° equal S5/SDR11

Model:

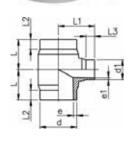
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Cleaned and double bagged

d [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
				0.4	4.0
20	IR		38	24	1,9
25	IR	727 208 582	42	26	2,3
32	IR	727 208 583	46	26	2,9
40	IR	727 208 584	51	23	3,7
50	IR	727 208 585	58	22	4,6
63	IR	727 208 586	66	20	5,8
75	IR		75	20	6,8
90	IR		90	20	8,2
110	IR		110	20	10,0
125	IR	727 208 590	125	25	11,4
140	IR	727 208 591	140	28	12,7
160	IR	727 208 592	160	28	14,6
180	IR		195	73	16,4
200	IR		200	35	18,2
225	IR	727 208 595	220	35	20,5
250		727 208 596	275	86	22,7
280		727 208 597	310	105	25,4
315		727 208 598	350	111	28,6

Tee 90° reducing, S5/SDR11

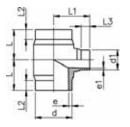
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Cleaned and double bagged



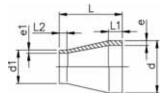
d	d1	FM	Code	L	L1	L2	L3	е	e1
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
63	32	IR	727 208 251	65	70	25	25	5,8	2,9
63	50	IR	727 208 252	65	70	25	25	5,8	4,6
75	32	IR	727 208 253	70	75	25	25	6,8	2,9
75	50	IR	727 208 254	70	75	25	25	6,8	4,6
75	63	IR	727 208 255	70	75	25	25	6,8	5,8
90	50	IR	727 208 257	80	85	25	25	8,2	4,6
90	63	IR	727 208 258	80	85	25	25	8,2	5,8
90	75	IR	727 208 259	80	85	25	25	8,2	6,8
110	32	IR	727 208 260	90	95	30	25	10,0	2,9
110	50	IR	727 208 261	90	95	30	25	10,0	4,6
110	63	IR	727 208 262	90	95	30	25	10,0	5,8
110	75	IR	727 208 263	90	95	30	25	10,0	6,8
110	90	IR	727 208 264	90	95	30	25	10,0	8,2
160	63	IR	727 208 271	142	135	50	30	14,6	5,8
160	75	IR	727 208 272	142	135	50	30	14,6	6,8
160	90	IR	727 208 273	142	135	50	30	14,6	8,2
160	110	IR	727 208 274	142	135	50	30	14,6	10,0

table continued next page



d [mm]	d1 [mm]	FM	Code	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
225 225 225	110	IR	727 208 288 727 208 289 727 208 291	155 155 155	165 165 165	40 40 40	30 30 30	20,5 20,5 20,5	8,2 10,0 14,6





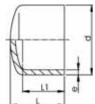
Reducers, S5/SDR11

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
 Cleaned and double bagged
- ¹ Material: PP-R

d	d1	FM	Code	L	L1	L2	е	e1	
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	
25	20	IR	727 908 637	50	20	20	2,3	1,9	
32	20	IR	727 908 642	50	20	20	2,9	1,9	
32	25	IR	727 908 641	50	20	20	2,9	2,3	
40	20	IR	727 908 648	58	20	23	3,7	1,9	
40	25	IR	727 908 647	55	20	20	3,7	2,3	
40	32	IR	727 908 646	55	20	20	3,7	2,9	
50	25	IR	727 908 654	60	20	20	4,6	2,3	
50	32	IR	727 908 653	60	20	20	4,6	2,9	
50	40	IR	727 908 652	60	20	20	4,6	3,7	
63	32	IR	727 908 660	65	20	20	5,8	2,9	
63	40	IR	727 908 659	65	20	20	5,8	3,7	
63	50	IR	727 908 658	65	20	20	5,8	4,6	
75	40	IR	727 908 666	68	20	20	6,8	3,7	
75	50	IR	727 908 665	65	20	20	6,8	4,6	
75	63	IR	727 908 664	65	20	20	6,8	5,8	
90	63	IR	727 908 671	75	22	19	8,2	5,8	
90	75	IR	727 908 670	75	21	19	8,2	6,8	
110	75	IR	727 908 677	90	28	18	10,0	6,8	
110	90	IR	727 908 676	90	28	20	10,0	8,2	
125	110	IR	727 908 680	100	31	30	11,4	10,0	
140	110	IR	727 908 685	110	33	29	12,7	10,0	
140	125	IR	727 908 684	110	34	30	12,7	11,4	
160	110	IR	727 908 690	120	38	27	14,6	10,0	
160	140	IR	727 908 688	120	40	35	14,6	12,7	
180	90	IR	727 908 691	157	45	22	16,4	8,2	
180	110	IR	727 908 955	157	45	28	16,4	10,0	
180	125	IR	727 908 698	136	45	32	16,4	11,4	
180	140	IR	727 908 699	136	45	35	16,4	12,7	
180	160	IR	727 908 952	136	45	40	16,4	14,6	
200	160	IR	727 908 692	145	50	40	18,2	14,6	
200	180	IR	727 908 693	151	50	45	18,2	16,4	
225	110	IR	727 908 695	160	55	35	20,5	10,0	
225	160	IR	727 908 696	160	55	40	20,5	14,6	
225	180	IR	727 908 694	171	55	45	20,5	16,4	
225	200	IR	727 908 697	160	55	50	20,5	18,2	
250	160		727 908 700	194	60	40	22,7	14,6	
250	225		727 908 701	182	60	55	22,7	20,5	
1 280	225		727 908 702	200	85	80	25,4	20,5	
1 280	250		727 908 703	200	85	90	25,4	22,7	
1 315	225		727 908 704	230	95	88	28,6	20,5	
1 315	250		727 908 705	230	95	95	28,6	22,7	
1 315	280		727 908 706	230	95	107	28,6	25,4	





End Caps, S5/SDR11

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
 Cleaned and double bagged

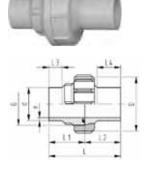
d	FM	Code	L	L1	е
[mm]	1 141	Oue	[mm]	[mm]	[mm]
[]			[]	[]	[]
20	IR	727 968 981	45	35	1,9
25	IR	727 968 982	52	40	2,3
32	IR	727 968 983	58	44	2,9
40	IR	727 968 984	67	50	3,7
50	IR	727 968 985	75	55	4,6
63	IR	727 968 986	85	62	5,8
75	IR		95	63	6,8
90	IR		110	79	8,2
110	İR		127	88	10,0
125	IR		138	102	11,4
140	IR		144	106	12,7
160	IR		154	109	14,6
180	IR		191	141	16,4
200	IR		181	127	18,2
225	IR	727 968 995	211	141	20,5

Unions for Butt Fusion

PROGEF Plus union S5/SDR11

Model:

- Material: PP-H
- With butt fusion ends
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
 Cleaned and double bagged



EPDM 27 51 86 FPM 27 52 86

			U. U U. I.		
d [mm]	PN	D [mm]	FM	EPDM Code	FPM Code
20	10	48	IR	727 518 606	727 528 606
25	10	58	IR	727 518 607	727 528 607
32	10	65	IR	727 518 608	727 528 608
40	10	79	IR	727 518 609	727 528 609
50	10	91	IR	727 518 610	727 528 610
63	10	111	IR	727 518 611	727 528 611
75	10	135	IR	727 518 612	727 528 612
90	10	135	IR	727 518 613	727 528 613
110	10	158	IR	727 518 614	727 528 614

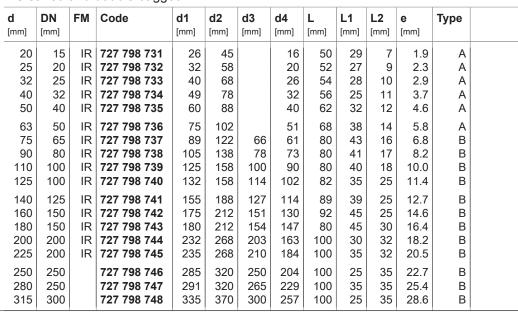
d	G	L	L1	L2	L3	е	O-Ring EPDM	O-Ring FPM	Size
[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]			
20	1	107	54	53	26	1,9	748.413.006	749.413.006	20,22 x 3,53
25	1 1/4	113	57	56	26	2,3	748.413.007	749.413.007	28,17 x 3,53
32	1 1/2	119	60	59	26	2,9	748.413.008	749.413.008	32,93 x 3,53
40	2	126	63	63	26	3,7	748.413.009	749.413.009	40,65 x 5,34
50	2 1/4	131	66	66	26	4,6	748.413.010	749.413.010	47,00 x 5,34
63	2 3/4	137	69	68	26	5,8	748.413.011	749.413.011	59,69 x 5,34
75	S107,5x3,6	132	66	66	24	6,8	748.413.013	749.413.013	69,22 x 5,34
90	S107,5x3,6	131	66	66	24	8,2	748.413.014	749.413.014	81,92 x 5,34
110	S127,5x3,6	131	66	66	25	10,0	748.413.015	749.413.015	101,00 x 5,34

Flange Adaptors, Flanges and Gaskets for Butt Fusion

PROGEF Plus flange adaptor S5/SDR11 Combined jointing Face: flat and serrated

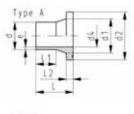
Model

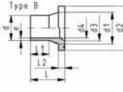
- · Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/568
- Up to d280, suitable for butterfly valve type 037/038/039
- Gasket: Profile flange gasket EPDM No. 48 44 17, FPM No. 49 44 17
- · Cleaned and double bagged







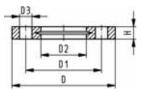




27 70 14 27 70 15







Backing flange PP-V For butt fusion systems Inch ANSI

Model:

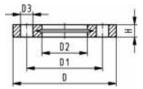
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- · With V-groove which applies force evenly on collar
- · With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150
- ¹) Suitable for socket- and butt fusion systems (no pictograph on flange) AL: number of holes
- * Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
	[]	[]			[]	[]	[]	[]	[]		
1 1/2	15	20	16	727 701 406	95	60.0	28	16	16	4	M12
1 3/4	20	25	16	727 701 407	105	70.0	34	16	17	4	M12
₁1	25	32	16	727 701 408	115	79.0	42	16	18	4	M12
1 1 1/4	32	40	16	727 701 409	140	89.0	51	16	20	4	M16
1 1 1/2	40	50	16	727 701 410	150	98.0	62	16	22	4	M16
12	50	63	16	727 701 411	165	121.0	78	19	24	4	M16
1 2 1/2	65	75	16	727 701 412	185	140.0	92	19	26	4	M16
3	80	90	16	727 701 513	200	152.0	108	19	27	4	M16
4	100	110	16	727 701 514	229	190.0	128	19	28	8	M16
10	250	250	16	727 701 521	406	362.0	288	26	38	12	M20
10	250	280	16	727 701 522	406	362.0	294	26	38	12	M20
12	300	315	16	727 701 523	483	432.0	338	26	42	12	M20

27 70 04 27 70 05







Backing flange PP-V For butt fusion systems metric

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- · With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10
- * Combined version, metric-ANSI

AL: number of holes

1) Suitable for socket- and butt fusion systems (no pictograph on flange)

d D	N	PN	Code	D	D1	D2	D3	Н	AL	sc
[mm] [n	nm]			[mm]	[mm]	[mm]	[mm]	[mm]		
1) 20	15	16	727 700 406	95	65.0	28	14	16	4	M12
1) 25	20	16	727 700 407	105	75.0	34	14	17	4	M12
1) 32	25	16	727 700 408	115	85.0	42	14	18	4	M12
1) 40	32	16	727 700 409	140	100.0	51	18	20	4	M16
1) 50	40	16	727 700 410	150	110.0	62	18	22	4	M16
1) 63	50	16	727 700 411	165	125.0	78	18	24	4	M16
1) 75	65	16	727 700 412	185	145.0	92	18	26	4	M16
90	80	16	727 700 513	200	160.0	108	18	27	8	M16
110	100	16	727 700 514	220	180.0	128	18	28	8	M16
125	100	16	727 700 515	220	180.0	135	18	28	8	M16
140	125	16	727 700 516	250	210.0	158	18	30	8	M16
180	150	16	727 700 518	285	240.0	188	22	32	8	M20
250	250	16	727 700 521	395	350.0	288	22	38	12	M20
280	250	16	727 700 522	395	350.0	294	22	38	12	M20
315	300	16	727 700 523	445	400.0	338	22	42	12	M20

27 70 12





Backing flange PP-Steel For butt fusion systems Inch ANSI

Model:

- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150

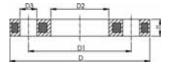
AL: number of holes

d [inch]	DN [mm]	d [mm]	PN	Code	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	sc
1/2	15	20	16	727 701 206	60	28	16	95	12	4	M12
3/4	20	25	16	727 701 207	70	34	16	105	12	4	M12
1	25	32	16	727 701 208	79	42	16	115	16	4	M12
1 1/4	32	40	16	727 701 209	89	51	16	140	16	4	M16
1 1/2	40	50	16	727 701 210	98	62	16	150	18	4	M16
2	50	63	16	727 701 211	121	78	19	165	18	4	M16
2 ½	65	75	16	727 701 212	140	92	19	185	18	4	M16
3	80	90	16	727 701 313	152	108	19	200	20	4	M16
4	100	110	16	727 701 314	190	128	19	229	20	8	M16
8	200	200	16	727 701 319	298	235	22	340	27	8	M20
8	200	225	16	727 701 320	298	238	22	340	27	8	M20

27 70 02 27 70 03







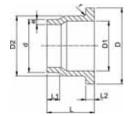
Backing flange PP-Steel For butt fusion systems metric

- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10

AL: number of holes

d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
20	15	16	727 700 206	95	65	28	14	12	4	M12
25	20	16	727 700 207	105	75	34	14	12	4	M12
32	25	16	727 700 208	115	85	42	14	16	4	M12
40	32	16	727 700 209	140	100	51	18	16	4	M16
50	40	16	727 700 210	150	110	62	18	20	4	M16
63	50	16	727 700 211	165	125	78	18	20	4	M16
75	65	16	727 700 212	185	145	92	18	20	4	M16
90	80	16	727 700 313	200	160	108	18	20	8	M16
110	100	16	727 700 314	220	180	128	18	20	8	M16
125	100	16	727 700 315	220	180	135	18	20	8	M16
140	125	16	727 700 316	250	210	158	18	24	8	M16
180	150	16	727 700 318	285	240	188	22	24	8	M20
200	200	16	727 700 319	340	295	235	22	27	8	M20
225	200	16	727 700 320	340	295	238	22	27	8	M20
250	250	16	727 700 321	395	350	288	22	30	12	M20
280	250	16	727 700 322	395	350	294	22	30	12	M20
315	300	16	727 700 323	445	400	338	22	34	12	M20





PROGEF Plus outlet flange adaptor S5/SDR11 Combined jointing Face: flat and serrated

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- To wafer check valves Type 369
- · Cleaned and double bagged

Attention:

 In conjunction with outlet flange adaptors, flange rings for socket systems must be used.

d	DN	Code	D	D1	D2	L	L1	L2	е	r
[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
40	32	727 808 134	80	37	50	64	30	11	3,7	3
50	40	727 808 135	90	43	61	67	30	12	4,6	3
63	50	727 808 136	105	54	76	74	30	14	5,8	4
75	65	727 808 137	125	70	90	78	30	16	6,8	4
90	80	727 808 138	140	82	108	87	35	17	8,2	4
110	100	727 808 139	160	105	131	102	41	18	10,0	4
140	125	727 808 141	190	130	165	124	47	25	12,7	4
160	150	727 808 142	215	158	188	149	52	25	14,6	4
225	200	727 808 145	270	206	248	180	55	32	20,5	4
280	250	727 808 147	325	259	308	240	63	35	25,4	4
315	300	727 808 148	375	308	346	272	66	35	28,6	4

EPDM 48 44 17 FPM 49 44 17

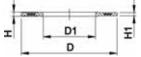


Model

- Silicone free / paint-compatible
- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore EPDM, 75° Shore FPM

di FA are the suitable inner diameters of flange adaptors

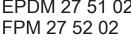




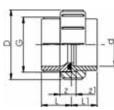
d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]	
20	15	16	748 441 706	749 441 706	51	20	4	3	10 - 20	
25	20	16	748 441 707	749 441 707	61	22	4	3	12 - 22	
32	25	16	748 441 708	749 441 708	71	28	4	3	18 - 28	
40	32	16	748 441 709	749 441 709	82	40	4	3	30 - 40	
50	40	16	748 441 710	749 441 710	92	46	4	3	36 - 46	
63	50	16	748 441 711	749 441 711	107	58	5	4	48 - 58	
75	65	16	748 441 712	749 441 712	127	69	5	4	59 - 69	
90	80	16	748 441 713	749 441 713	142	84	5	4	73 - 84	
110	100	16	748 441 714	749 441 714	162	104	6	5	94 - 104	
125	100	16	748 441 715	749 441 715	162	123	6	5	113 - 123	
140	125	16	748 441 716	749 441 716	192	137	6	5	127 - 137	
160 / 180	150	16	748 441 717	749 441 717	218	160	8	6	150 - 160	
200	200	16	748 441 719	749 441 719	273	203	8	6	192 - 203	
225	200	16	748 441 720	749 441 720	273	220	8	6	207 - 207	
250	250	16	748 441 721	749 441 721	328	252	8	6	238 - 250	
280	250	16	748 441 722	749 441 722	328	274	8	6	264 - 274	
315	300	16	748 441 723	749 441 723	378	306	8	6	296 - 296	

Unions for Socket Fusion

EPDM 27 51 02







PROGEF Plus union

Model:

- Material: PP-H
- Fusion socket metric
- D75-110 with new thread geometry, now rated PN10 up to d110
 Jointing face: with O-Ring
 Cleaned and double bagged

d [mm]	PN	EPDM Code	FPM Code
16		727 510 255	727 520 255
20 25		727 510 256 727 510 257	727 520 256 727 520 257
32		727 510 257	727 520 258
40	10	727 510 259	727 520 259
50	10	727 510 260	727 520 260
63	10	727 510 261	727 520 261
75		727 510 272	727 520 272
90	10	727 510 273	727 520 273
110	10	727 510 274	727 520 274

d [mm]	D [mm]	G [inch]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	O-Ring EPDM	O-Ring FPM	Size
16	35	3/4	24	18	5	11	748.413.005	749.413.005	15,54 x 2,62
20	48	1	26	19	5	12	748.413.006	749.413.006	20,22 x 3,53
25	58	1 1/4	28	21	5	12	748.413.007	749.413.007	28,17 x 3,53
32	65	1 1/2	30	23	5	12	748.413.008	749.413.008	32,93 x 3,53
40	79	2	34	25	5	14	748.413.009	749.413.009	40,65 x 5,54
50	91	2 1/4	39	28	5	16	748.413.010	749.413.010	47,00 x 5,34
63	111	2 3/4	47	32	5	20	748.413.011	749.413.011	59,69 x 5,34
75	135	S107,5x3,6	51	36	5	20	748.413.014	749.413.014	81,92 x 5,34
90	158	S127,5x3,6	55	42	7	20	748.413.015	749.413.015	101,00 x 5,34
110	188	S152,5x3,6	54	49	7	12	748.413.016	748.413.016	120,00 x 6,99

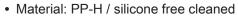
PROGEF Plus Hand-Operated and Actuated Valves

		Page
1	Ball Valve	360
4	Ball valves	364
A.	Diaphragm valves silicon free	366
8	Butterfly valves	375
Î	Cone check valves	379

Ball Valve

Ball Valve Type 546, PP-H SF with mounting inserts With fusion sockets metric

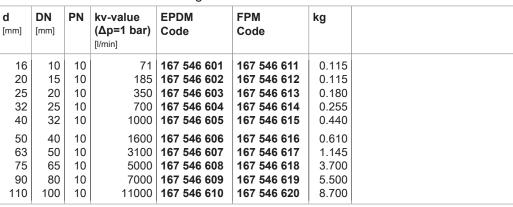
Model:

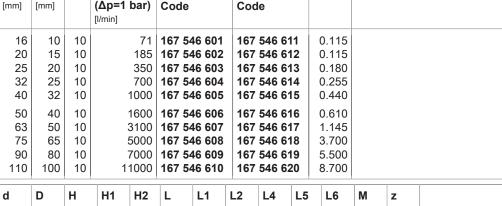


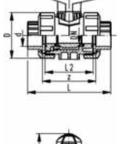
- · For easy installation and removal
- z-dimension, valve end and union nut are not compatible with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- · Integrated stainless steel mounting inserts
- Double bagged
- Ball seals PVDF

Option:

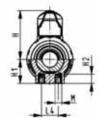
- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches

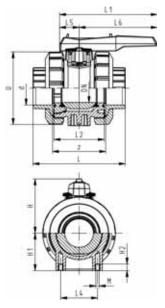






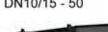
DN10/15 - 50





d [mm]	D [mm]	[mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	М	Z [mm]	
	-			-									
16 20	50 50	57 57	27 27	12 12	93 95	77 77	56 56	25 25	32 32	45 45	M6 M6	67 66	
25	58	67	30	12	108	97	65	25	39	58	M6	77	
32	68	73	36	12	118	97	71	25	39	58	M6	83	
40	84	90	44	15	137	128	85	45	54	74	M8	99	
50	97	97	51	15	147	128	89	45	54	74	M8	105	
63	124	116	64	15	168	152	101	45	66	87	M8	117	
75 90	166 200	149 161	85 105	15 15	233 254	270 270	136 141	70 70	64 64	206 206	M8 M8	167 180	
110	238	178	123	22	301	320	164	120	64	256	M12	215	

DN10/15 - 50



With socket fusion spigots metric Model:

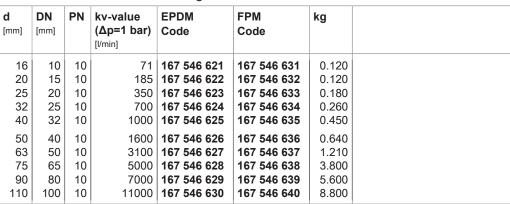
- · Material: PP-H / silicone free cleaned
- · For easy installation and removal
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

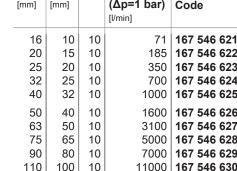
Ball Valve Type 546, PP-H SF with mounting inserts

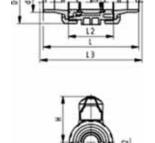
- Integrated stainless steel mounting inserts
- Double bagged
- Ball seals PVDF

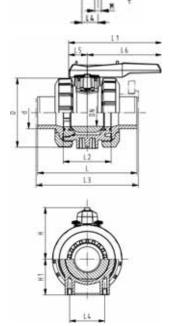
Option:

- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches



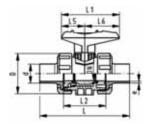


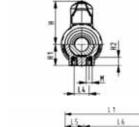


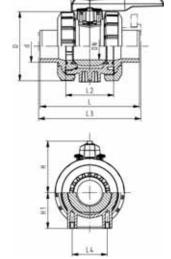


d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M
	[iiiiii]	[iiiiii]	[iiiiii]	[IIIIII]	liiiiii	[iiiiii]	[iiiiii]	[iiiiii]	[iiiiii]	liiiiii	liiiiii	
16		57	27	12	110	77	56		25	32	45	M6
20		57	27	12	120	77	56	130	25	32	45	M6
25		67	30	12	139	97	65	150	25	39	58	M6
32		73	36	12	150	97	71	160	25	39	58	M6
40	84	90	44	15	170	128	85	180	45	54	74	M8
50	97	97	51	15	190	128	89	200	45	54	74	M8
63		116	64	15	220	152	101	230	45	66	87	M8
75	1	149	85	15	280	270	136	290	70	64	206	M8
90	200	161	105	15	296	270	141	310	70	64	206	M8
110	238	178	123	22	336	320	164	350	120	64	256	M12

DN10/15 - 50







Ball Valve Type 546, PP-H SF with mounting inserts With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- For easy installation and removal
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Integrated stainless steel mounting inserts
- Double bagged
- Ball seals PVDF

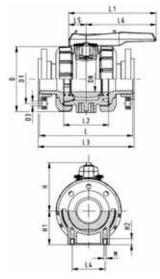
Option:

- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	185	167 546 662	167 546 672	0.120
25	20	10	350	167 546 663	167 546 673	0.180
32	25	10	700	167 546 664	167 546 674	0.255
40	32	10	1000	167 546 665	167 546 675	0.440
50	40	10	1600	167 546 666	167 546 676	0.620
63	50	10	3100	167 546 667	167 546 677	1.200
75	65	10	5000	167 546 668	167 546 678	2.612
90	80	10	7000	167 546 669	167 546 679	5.500
110	100	10	11000	167 546 670	167 546 680	8.700

				.000				0.000		0.7 00		
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	М	e [mm]
20 25 32 40 50	50 58 68 84 97	57 67 73 90 97	27 30 36 44 51	12 12 12 15 15	130 143 150 171 191	77 97 97 128 128	56 65 71 85 89	25 25 25 45 45	32 39 39 54 54	45 58 58 74 74	M6 M6 M6 M8 M8	1.9 2.3 3.0 3.7 4.6
63 75 90 110	124 166 200 238	116 149 161 178	64 85 105 123	15 15 15 22	220 266 264 301	152 270 270 320	101 136 141 164	45 70 70 120	66 64 64 64	87 206 206 256	M8 M8 M8 M12	5.8 8.2 9.9 12.0





Ball Valve Type 546, PP-H SF with mounting inserts With backing flanges PP-st metric

Model:

- · Material: PP-H / silicone free cleaned
- · For easy installation and removal
- z-dimension, valve end and union nut are not compatible with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- · Integrated stainless steel mounting inserts
- · Double bagged
- Ball seals PVDF
- · Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches

-	PN	DNI													
٠		FIN	(4	cv-val Δp=1 /min]		EPDM Code		FPM Cod			kg	I			
	10	10	0		5000	167 54	16 828	167	546 83	88		4.300			
	10	10	0		7000	167 54	16 829	167	546 83	89		6.400			
	10	10	0	1	1000	167 54	16 830	167	546 84	10	1	0.000			
	D1	D1	1	D3	L	L1	L2	L3	L4	L5		L6	Н	H1	M
	[mm]	[mm]	m]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
	145	145	45	18	280	270	136	290	70	6	4	206	149	85	8
	160	160	60	18	296	270	141	310	70	6	4	206	161	105	8
	180	180	80	18	336	320	164	350	120	6	4	256	178	123	12
[]/	10 10 10 10 D1 [mm] 145 160	10 10 D1 [mm] 145	0 0 0 0 1 m] 45 60		5000 7000 1000 L [mm] 280 296	167 54 167 54 167 54 L1 [mm] 270 270	L2 [mm] 136 141	167 167 167 290 310	546 83 546 84 546 84 L4 [mm] 70	L5 [mm 6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6]	6.400 0.000 L6 [mm] 206 206	H [mm] 149 161	[mm] 8 10	5 5



Ball Valve Type 546, PP-H SF with mounting inserts With backing flanges PP-st Inch ANSI

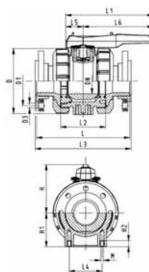
Model:

- Material: PP-H / silicone free cleaned
- · For easy installation and removal
- z-dimension, valve end and union nut are not compatible with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Integrated stainless steel mounting inserts
- Double bagged
- · Ball seals PTFE
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

Ontion

- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-val (∆p=1 ^[l/min]		EPDM Code		FPM Code		k	g				
75	65	10		5000	167 54	16 888	167	546 89	8	4.300				
90	80	10		7000	167 54	16 889	167	546 89	99	6.400				
110	100	10	1	1000	167 54	16 890	167	546 90	00	10.000				
d	D	D1	D3	L	L1	L2	L3	L4	L5	L6	Н	H1	М	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
75	166	140	19	280	270	136	290	70	64	206	149	85	8	
		1			1	1		1		1				
90	200	152	19	296	270	141	310	70	64	206	161	105	8	!



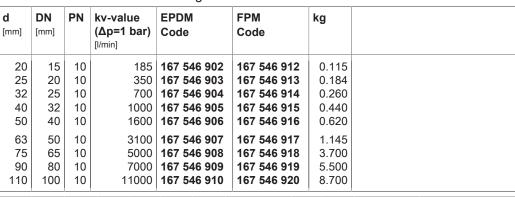
Ball valves

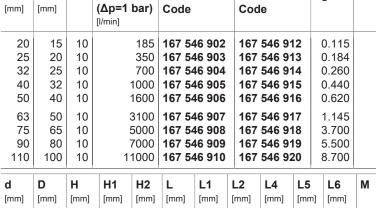
PROGEF Plus oil free Ball valve type 546 With mounting inserts With fusion sockets metric

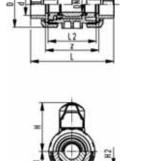
Model:

- · Material: PP-H / oil free cleaned
- For easy installation and removal
- z-dimension, valve end and union nut are not compatible with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- · Integrated stainless steel mounting inserts

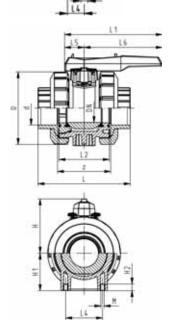
- · Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches







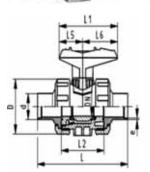
DN10/15 - 50

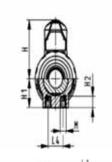


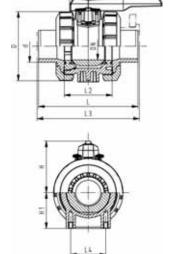
a [mm]	[mm]	[mm]	H1 [mm]	[mm]	[mm]	L1 [mm]	[mm]	L4 [mm]	L5 [mm]	L6 [mm]	IVI	Z [mm]	
20	50 58	57	27	-	95	77	56 65	25 25	32	45 58	M6 M6	66	
32 40	68 84	73 90	36 44	12 15	119 135	97 128	71 85	25 45	39 54	58 74	M6 M8	83 99	
50	97	97	51	15	147	128	89	45	54	74	M8	105	
63 75	124 166	116 149	64 85	15 15	168 233	152 270	101 136	45 70	66 64	87 206	M8 M8	117 167	
90 110	200 238	161 178	105 123	15 22	254 301	270 320	141 164	70 120	64 64	206 256	M8 M12	180 215	











PROGEF Plus oil free Ball valve type 546 With mounting inserts With butt fusion spigots IR-Plus SDR11 metric

- Model:
- Material: PP-H / oil free cleaned
- · For easy installation and removal
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- · Ball seals PTFE

Н

D

H1

H2 L

L1

L2

· Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)
- · Multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg			
20	15	10	185	167 546 482	0.120			
25	20	10	350	167 546 483	0.183			
32	25	10	700	167 546 484	0.259			
40	32	10	1000	167 546 485	0.452			
50	40	10	1600	167 546 486	0.620			
63	50	10	3100	167 546 487	1.200			
75	65	10	5000	167 546 488	3.800			
90	80	10	7000	167 546 489	5.500			
110	100	10	11000	167 546 490	8.700			
				•	1	1		

L5

L6

[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	
20 25 32 40 50	50 58 68 84 97	57 67 73 90 97	27 30 36 44 51	12 12 12 15 15	130 143 150 171 191	77 97 97 128 128	56 65 71 85 89	25 25 25 45 45	32 39 39 54 54	45 58 58 74 74	M6 M6 M6 M8 M8	1,9 2,3 3 3,7 4,6	
63 75 90 110	124 166 200 238	116 149 161 178	64 85 105 123	15 15 15 22	220 266 264 301	152 270 270 320	101 136 141 164	45 70 70 120	66 64 64 64	87 206 206 256	M8 M8 M8 M12	5,8 8.2 9.9 12	

Diaphragm valves silicon free

PROGEF Plus silicone free Diaphragm valve type 514 With fusion sockets metric

Model:

- · Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value (Δp=1 ba		EPDM Code		PTF Cod	E/EPI e	М	kg	
20	15	10	1	125 1	167 51	4 022	167	514 0	72	0.371	1
25	20	10	2	271 1	167 51	4 023	167	514 0	73	0.499	9
32	25	10	4	181 1	167 51	4 024	167	5140	74	1.101	1
40	32	10	7	759 1	167 51	4 025	167	514 0	75	1.297	7
50	40	10	12	263 1	167 51	4 026	167	514 0	76	1.376	6
63	50	10	17	728 1	167 51	4 027	167	514 0	77	3.058	8
		1			1					1	
d	D	D2	D3 I	L	L2	Н	H1	H2	M	Z	Lift =

d [mm]	D [mm]	D2 [mm]	D3 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	z [mm]	Lift = Hx [mm]
20	65	65	43	128	25	73	14	12	M6	100	7
25	80	65	51	150	25	81	18	12	M6	118	10
32	88	87	58	162	25	107	22	12	M6	126	13
40	101	87	72	184	45	115	26	15	M8	144	15
50	117	135	83	210	45	148	32	15	M8	164	19
63	144	135	100	248	45	166	39	15	M8	194	25



366

PROGEF Plus silicone free Diaphragm valve type 514 With butt fusion spigots SDR11 metric

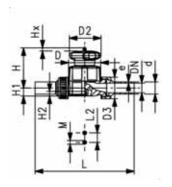
Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- · For easy installation and removal
- Short overall length

Option

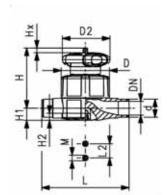
- Individual configuration of the valve (see diagram)
- · Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
20	15	10	125	167 514 122	167 514 172	0.274	
25	20	10	271	167 514 123	167 514 173	0.404	
32	25	10	481	167 514 124	167 514 174	0.652	
40	32	10	759	167 514 125	167 514 175	0.853	
50	40	10	1263	167 514 126	167 514 176	1.453	
63	50	10	1728	167 514 127	167 514 177	3.072	



d [mm]	D [mm]	D2 [mm]	D3 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]	e [mm]	
20	65	65	43	196	25	73	14	12	M6	7	1.9	
25	80	65	51	221	25	81	18	12	M6	10	2.3	
32	88	87	58	234	25	107	22	12	M6	13	2.9	
40	101	87	72	260	45	115	26	15	M8	15	3.7	
50	117	135	83	284	45	148	32	15	M8	19	4.6	
63	144	135	100	321	45	166	39	15	M8	25	5.8	





PROGEF Plus silicone free Diaphragm valve type 515 With socket fusion spigots metric

Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

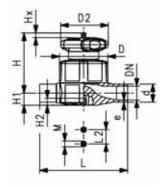
Option

- Individual configuration of the valve (see diagram)
- · Self adjusting multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	15	10	125	167 515 022	167 515 072	0.308
25	20	10	271	167 515 023	167 515 073	0.396
32	25	10	481	167 515 024	167 515 074	0.970
40	32	10	759	167 515 025	167 515 075	1.128
50	40	10	1263	167 515 026	167 515 076	2.087
63	50	10	1728	167 515 027	167 515 077	2.632

d [mm]	D [mm]	D2 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]	e [mm]
20	65	65	124	25	73	14	12	M6	7	1.9
25	80	65	144	25	81	18	12	M6	10	
32 40	101	87 87	154 174	25 45	107	22 26	12 15	M6 M8	13 15	2.9
50	117	135	194	45	148	32	15	M8	19	4.6
63	144	135	223	45	166	39	15	M8	25	5.8





PROGEF Plus silicone free Diaphragm valve type 515 With butt fusion spigots SDR11 metric

Model:

- · Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- · Handwheel with built-in locking mechanism
- Overall length EN 558

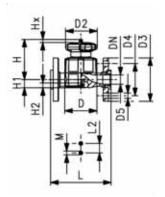
Option:

- Individual configuration of the valve (see diagram)
- · Self adjusting multifunctional module with integrated limit switches

			<u>, </u>								
d [mm]	DN [mm]	PN	kv-valu (∆p=1 l [l/min]		EPDM Code		PTF	E/EF de	PDM	kg	
20	15	10		- 1	167 51			515		0.307	
25	20	10		271	167 51	5 123	167	515	173	0.392	
32	25	10		481	167 51	5 124	167	515	174	0.968	
40	32	10		759	167 51	5 125	167	515	175	0.655	
50	40	10	1	1263	167 51	5 126	167	515	176	2.082	
63	50	10	1	1728	167 51	5 127	167	515	177	2.629	
d	D	D2	L	L2	Н	H1	H2	М	Lift =	е	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		Hx	[mm]	
									[mm]		
20	65	65	124	25	73	14	12	M6	7	7 1.9	
25	80	65	5 144	25	81	18	12	M6	10	2.3	
32	88	87	155	25	107	22	12	M6	13	3 2.9	
40	101	87	176	45	115	26	15	M8	15	3.7	
50	117	135	193	45	148	32	15	M8	19	4.6	
63	144	135	1	45	166	39	15	M8	25		







PROGEF Plus silicone free Diaphragm valve type 517 With backing flanges PP-V metric/BS

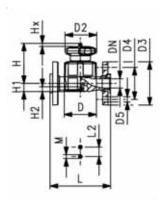
Model:

- · Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- · One housing nut replaces four screws
- · Handwheel with built-in locking mechanism
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504
- · Flat sealing faces/serrated

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

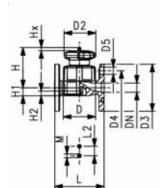
	, .		,		_		_				-		
d [mm]	DN [mm]	PN	kv-valu (∆p=1 [//min]		EPDM Code		PTF	E/EPD le	M	kg			
20	15	10		125	167 51	7 122	167	517 17	72	0.412			
25	20	10		271	167 51	7 123	167	517 17	73	0.640			
32	25	10		481	167 51	7 124	167	517 17	74	1.316			
40	32	10		759	167 51	7 125	167	517 17	75	1.660			
50	40	10		1263	167 51	7 126	167	517 17	76	2.601			
63	50	10		1728	167 51	7 127	167	517 17	77	3.572			
d [mm]	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]	
20	65	65		65	14	130	25	73	14		M6	7	
25	80	65		75	14	150	25	81	18		M6	10	
32	88	87	7 115	85	14	160	25	107	22	12	M6	13	

table continued next page



d [mm]	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	M	Lift = Hx [mm]
40	101	87	140	100	18	180	45	115	26	15	M8	15
50	117	135	150	110	18	200	45	148	32	15	M8	19
63	144	135	165	125	18	230	45	166	39	15	M8	25





PROGEF Plus oil free Diaphragm valve type 517 With fixed flanges PP-H JIS

Model:

- Material: PP-H / oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Connecting dimension: JIS B2238/39 10K
- Flat sealing faces/serrated

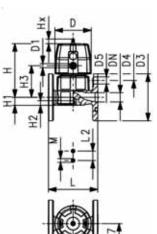
Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
1/2	15	10	125	167 517 922	167 517 972	0.434
3/4	20	10	271	167 517 923	167 517 973	0.514
1	25	10	481	167 517 924	167 517 974	1.168
1 1/4	32	10	759	167 517 925	167 517 975	1.462
1 ½	40	10	1263	167 517 926	167 517 976	2.449
2	50	10	1728	167 517 927	167 517 977	3.082

Inch	D [mm]	D2 [mm]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	М	Lift = Hx [mm]
1/2	65	65	95	70	15	110	25	73	14	12	M6	7
3/4	80	65	100	75	15	120	25	81	18	12	M6	10
1	88	87	125	90	19	130	25	107	22	12	M6	13
1 1/4	101	87	135	100	19	180	45	115	26	15	M8	15
1 ½	117	135	140	105	19	180	45	148	32	15	M8	19
2	144	135	155	120	19	210	45	166	39	15	M8	25





PROGEF Plus oil free Diaphragm valve DIASTAR Six FC (Fail safe to close) With fixed flanges PP-H JIS

Model:

- Material: PP-H / oil free cleaned
- · Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

• Individual configuration of the valve (see diagram)

			J	`	_	,
Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg	
1/2	15	6	125	167 617 922	0.593	
3/4	20	6	271	167 617 923	1.023	
1	25	6	481	167 617 924	1.263	
1 1/4	32	6	759	167 617 925	2.082	
1 ½	40	6	960	167 617 926	2.570	
2	50	6	1181	167 617 927	3.432	
				1		I.

Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]
1/2	68	1/8	95	70	15	110	25	101	14	12	60	43	M6	7
3/4	96	1/8	100	75	15	120	25	132	18	12	73	57	M6	10
1	96	1/8	125	90	19	130	25	143	22	12	84	69	M6	13
1 1/4	120	1/8	135	100	19	180	45	173	26	15	99	69	M8	14
1 1/2	120	1/8	140	105	19	180	45	193	32	15	119	69	M8	16
2	120	1/8	155	120	19	210	45	205	39	15	132	69	M8	16



PROGEF Plus oil free Diaphragm valve DIASTAR Ten FC (Fail safe to close) With fixed flanges PP-H JIS

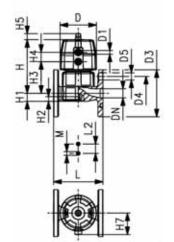
Model:

- · Material: PP-H / oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Connecting dimension: JIS B2238/39 10K
- Flat sealing faces/serrated

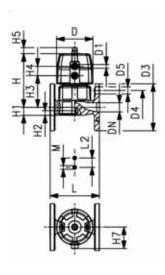
Option:

- Individual configuration of the valve (see diagram)
- · Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side



Inch	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/10*	125	167 627 922	167 627 972	0.628	
3/4	20	10/10*	271	167 627 923	167 627 973	1.108	
1	25	10/10*	481	167 627 924	167 627 974	1.354	
1 1/4	32	10/10*	759	167 627 925	167 627 975	2.251	
1 1/2	40	10/10*	1263	167 627 926	167 627 976	3.737	
2	50	10/6*	1728	167 627 927	167 627 977	4.380	



Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	М
1/2	68	1/8	95	70	15	110	25	101	14	12	60	24	16	43	M6
3/4	96	1/8	100	75	15	120	25	132	18	12	73	25	16	57	M6
1	96	1/8	125	90	19	130	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	135	100	19	180	45	173	26	15	99	26	26	69	M8
1 1/2	150	1/4	140	105	19	180	45	193	32	15	119	36	26	88	M8
2	150	1/4	155	120	19	210	45	205	39	15	132	36	26	88	M8

Inch	Lift = Hx [mm]	
1/2	7	
3/4	10	
1	13	
1 1/4	15	
1 1/2	19	
2	23	



PROGEF Plus oil free Diaphragm valve DIASTAR Ten FO (Fail safe to open) With fixed flanges PP-H JIS

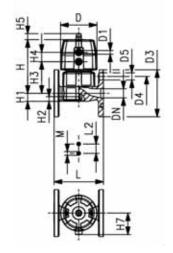
Model:

- Material: PP-H / oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

Working Pressure: one side

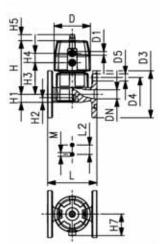


Inch	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/10*	125	167 647 922	167 647 972	0.578	
3/4	20	10/10*	271	167 647 923	167 647 973	0.934	
1	25	10/10*	481	167 647 924	167 647 974	1.174	
1 1/4	32	10/10*	759	167 647 925	167 647 975	1.891	
1 1/2	40	10/10*	1263	167 647 926	167 647 976	3.647	
2	50	10/10*	1728	167 647 927	167 647 977	4.290	

Inch	D	D1_G	D3	D4	D5	L	L2	Н	H1	H2	Н3	H4	H5	H7	М
	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
1/2	68	1/8	95	70	15	110	25	101	14	12	60	24	16	57	M6
3/4	96	1/8	100	75	15	120	25	132	18	12	73	25	16	57	M6
1	96	1/8	125	90	19	130	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	135	100	19	180	45	173	26	15	99	26	26	88	M8
1 ½	150	1/4	140	105	19	180	45	214	32	15	119	36	26	103	M8
2	150	1/4	155	120	19	210	45	226	39	15	132	36	26	103	M8

Lift = Hx [mm]
7
10 13
15
19 23





PROGEF Plus oil free Diaphragm valve DIASTAR Ten DA (Double acting) With fixed flanges PP-H JIS

Model:

- Material: PP-H / oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

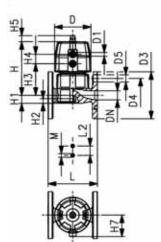
Working Pressure: one side

Inch	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/10*	125	167 657 922	167 657 972	0.562	
3/4	20	10/10*	271	167 657 923	167 657 973	0.898	
1	25	10/10*	481	167 657 924	167 657 974	1.144	
1 1/4	32	10/10*	759	167 657 925	167 657 975	1.831	
1 1/2	40	10/10*	1263	167 657 926	167 657 976	2.897	
2	50	10/10*	1728	167 657 927	167 657 977	3.540	

Inch	D	D1_G	D3	D4	D5	L	L2	Н	H1	H2	Н3	H4	H5	H7	M
	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
1/2	68	1/8	95	70	15	110	25	101	14	12	60	24	16	57	M6
3/4	96	1/8	100	75	15	120	25	132	18	12	73	25	16	57	M6
1	96	1/8	125	90	19	130	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	135	100	19	180	45	173	26	15	99	26	26	88	M8
1 ½	150	1/4	140	105	19	180	45	214	32	15	119	36	26	103	M8
2	150	1/4	155	120	19	210	45	226	39	15	132	36	26	103	M8

				<u> </u>				 	
Inch	Lift =								
	Hx								
	[mm]								
1/2	7								
3/4	10								
1	13	1							
1 1/4	15								
1 1/2	19								
2	23								





PROGEF Plus oil free Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) low pressure With fixed flanges PP-H JIS

Model:

- Material: PP-H / oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- * PN: PTFE

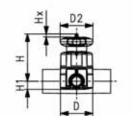
Working Pressure: both sides

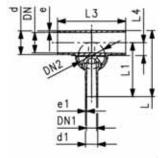
Inch	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg	
1/2	15	10/8*	125	167 687 922	167 687 972	1.028	
3/4	20	10/8*	271	167 687 923	167 687 973	1.108	
1	25	10/8*	481	167 687 924	167 687 974	1.948	
1 1/4	32	10/8*	759	167 687 925	167 687 975	3.321	
1 ½	40	10/8*	1263	167 687 926	167 687 976	5.145	
2	50	10/6*	1728	167 687 927	167 687 977	5.787	

Inch	D	D1_G	D3	D4	D5	L	L2	Н	H1	H2	Н3	H4	H5	H7	М
	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
1/2	96	1/8	95	70	15	110	25	127	14	12	68	25	16	57	M6
3/4	96	1/8	100	75	15	120	25	132	18	12	73	25	16	57	M6
1	120	1/8	125	90	19	130	25	167	22	12	93	26	26	69	M6
1 1/4	150	1/4	135	100	19	180	45	196	26	15	101	36	26	88	M8
1 ½	180	1/4	140	105	19	180	45	239	32	15	124	37	26	103	M8
2	180	1/4	155	120	19	210	45	251	39	15	137	37	26	103	M8

Inch	Lift = Hx [mm]
1/2	7
3/4	10
1	13
1 1/4	15
1 ½	19
2	23







PROGEF Plus silicone free Diaphragm valve type 519 With butt fusion spigots SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d [mm]	d1 [mm]	Valve Size d	DN [mm]	DN1 [mm]	DN2 [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	20	20	15	15	15	10	57	167 519 201	167 519 701	0.321
25	20	25	20	15	20	10	89	167 519 203	167 519 703	0.397
25	25	25	20	20	20	10	118	167 519 204	167 519 704	0.399
32	20	25	25	15	20	10	80	167 519 207	167 519 707	0.424
32	25	25	25	20	20	10	105	167 519 208	167 519 708	0.426
32	32	32	25	25	25	10	231	167 519 209	167 519 709	0.980
40	20	32	32	15	25	10	85	167 519 212	167 519 712	1.008
50	20	25	40	15	20	10	86	167 519 218	167 519 718	0.485
50	25	32	40	20	25	10	160	167 519 219	167 519 719	1.054
50	32	32	40	25	25	10	206	167 519 220	167 519 720	1.056
63	20	25	50	15	20	10	84	167 519 225	167 519 725	0.524
63	25	32	50	20	25	10	150	167 519 226	167 519 726	1.097
63	32	32	50	25	25	10	184	167 519 227	167 519 727	1.100

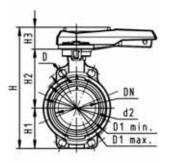
d [mm]	D [mm]	D2 [mm]	L [mm]	L1 [mm]	L3 [mm]	L4 [mm]	H [mm]	Lift = Hx [mm]	e [mm]	e1 [mm]
20	65	65	117	96	162	12	75	7	1.9	1.9
25	80	65	133	108	162	16	80	10	2.3	1.9
25	80	65	133	108	162	16	80	10	2.3	2.3
32	80	65	142	120	162	19	84	10	2.9	1.9
32	80	65	142	120	162	19	84	10	2.9	2.3
32	88	87	145	120	160	19	107	13	2.9	2.9
40	88	87	149	128	180	23	115	13	3.7	1.9
50	80	65	160	134	180	27	97	10	4.6	1.9
50	88	87	160	134	180	28	120	13	4.6	2.3
50	88	87	160	134	180	28	120	13	4.6	2.9
63	80	65	177	144	180	33	104	10	5.8	1.9
63	88	87	177	144	180	35	127	13	5.8	2.3
63	88	87	177	144	180	35	127	13	5.8	2.9

Butterfly valves

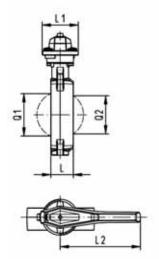
PROGEF Plus silicone free Butterfly valve type 567 Hand lever with ratchet settings



- Material: PP-H / silicone free cleaned
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
63	50	2	10	1470	167 567 402	167 567 422	0.969
75	65	2 1/2	10	2200	167 567 403	167 567 423	1.270
90	80	3	10	3000	167 567 404	167 567 424	1.191
110	100	4	10	6500	167 567 405	167 567 425	1.751
140	125	5	10	11500	167 567 406	167 567 426	2.199
160	150	6	10	16600	167 567 407	167 567 427	2.989
225	200	8	10	39600	167 567 408	167 567 428	4.706



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	40	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	325	104	167	55	56	106	255	88	74
140	23	210.0	215.9	187	352	117	181	55	64	106	255	113	97
160	24	241.3	241.3	215	373	130	189	55	72	106	255	139	123
225	23	290.0	295.0	267	435	158	210	67	73	140	408	178	169

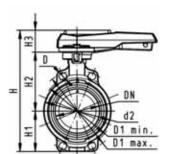




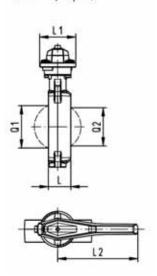
PROGEF Plus oil free Butterfly valve type 567 Hand lever with ratchet settings

Model:

- Material: PP-H / oil free cleaned
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	kg
63	50	2	10	1470	167 567 502	0.965
75	65	2 ½	10	2200	167 567 503	1.056
90	80	3	10	3000	167 567 504	1.184
110	100	4	10	6500	167 567 505	1.737
140	125	5	10	11500	167 567 506	2.181
160	150	6	10	16600	167 567 507	2.966
225	200	8	10	39600	167 567 508	4.678



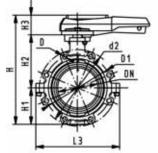
d [mm]	D [mm]	D1 min. [mm]	max.	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	40	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	325	104	167	55	56	106	255	88	74
140	23	210.0	215.9	187	352	117	181	55	64	106	255	113	97
160	24	241.3	241.3	215	373	130	189	55	72	106	255	139	123
225	23	290.0	295.0	267	435	158	210	67	73	140	408	178	169



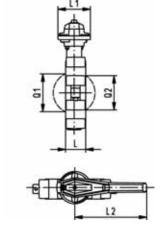
PROGEF Plus silicone free Lugstyle butterfly valve type 568 Hand lever with ratchet settings

Model:

- Material: PP-H / silicone free cleaned
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752



		5			,		
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
63	50	2	10	1470	167 568 402	167 568 422	3.055
75	65	2 1/2	10	2200	167 568 403	167 568 423	3.397
90	80	3	10	3000	167 568 404	167 568 424	4.402
110	100	4	10	6500	167 568 405	167 568 425	5.835
140	125	5	10	11500	167 568 406	167 568 426	7.665
160	150	6	10	16600	167 568 407	167 568 427	9.449
225	200	8	10	39600	167 568 408	167 568 428	14.654

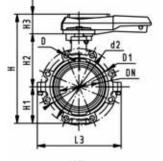


d	d2	D	D1	Н	H1	H2	Н3	L	L1	L2	L3	Q1	Q2
[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
63	150	M16	125	265	77	134	54	45	106	205	150	40	
75	170	M16	145	277	83	140	54	46	106	205	160	54	35
90	184	M16	160	289	89	146	54	49	106	205	205	67	50
110	216	M16	180	326	104	167	55	56	106	255	244	88	74
140	246	M16	210	353	117	181	55	64	106	255	272	113	97
160	273	M20	240	374	130	189	55	72	106	255	297	139	123
225	334	M20	295	435	158	210	67	73	140	408	360	178	169

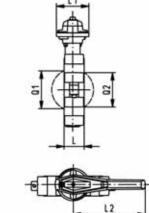


PROGEF Plus silicone free Lugstyle butterfly valve 568 ANSI Hand lever with ratchet settings

- Material: PP-H / silicone free cleaned
- Outer body in GGG-40.3 epoxy-coated
 Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752



Inch	d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
2	63	50	10	1470	167 568 502	167 568 522	3.055
2 ½	75	65	10	2200	167 568 503	167 568 523	3.397
3	90	80	10	3000	167 568 504	167 568 524	3.773
4	110	100	10	6500	167 568 505	167 568 525	5.835
5	140	125	10	11500	167 568 506	167 568 526	7.665
6	160	150	10	16600	167 568 507	167 568 527	9.449
8	225	200	10	39600	167 568 508	167 568 528	14.654



Inch	d2 [mm]	D	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
2	150	UNC 5/8	121	265	77	134	54	45	106	205	150	40	
2 ½	170	UNC 5/8	138	277	83	140	54	46	106	205	160	54	35
3	177	UNC 5/8	152	289	89	146	54	49	106	205	175	67	50
4	216	UNC 5/8	191	326	104	167	55	56	106	255	244	88	74
5	246	UNC 3/4	216	353	117	181	55	64	106	255	272	113	97
6	273	UNC 3/4	241	374	130	189	55	72	106	255	297	139	123
8	334	UNC 3/4	298	435	158	210	67	73	140	408	360	178	169

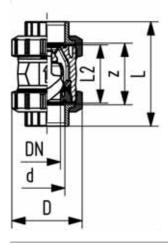
Cone check valves



PROGEF Plus silicone free Check valve type 561 With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- · Designed for easy installation and removal
- Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For vertical installation
- · Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



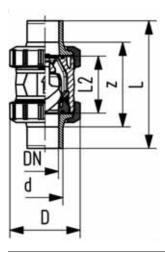
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	Z [mm]
16	10	10	190	167 561 201	167 561 211	0.080	50	93	56	67
20	15	10	180	167 561 202	167 561 212	0.080	50	95	56	66
25	20	10	380	167 561 203	167 561 213	0.180	58	109	65	77
32	25	10	460	167 561 204	167 561 214	0.190	68	119	71	83
40	32	10	850	167 561 205	167 561 215	0.340	84	135	85	99
50	40	10	1080	167 561 206	167 561 216	0.480	97	147	89	105
63	50	10	1670	167 561 207	167 561 217	0.880	124	168	101	117
75	65	10	2950	167 561 208	167 561 218	2.310	166	233	136	167
90	80	10	3600	167 561 209	167 561 219	3.580	200	254	141	180
110	100	10	4150	167 561 210	167 561 220	5.930	238	301	164	215



PROGEF Plus silicone free Check valve type 561 With socket fusion spigots metric

Modal.

- Material: PP-H / silicone free cleaned
- · Designed for easy installation and removal
- · Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



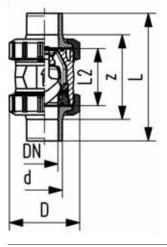
	•						,	•			
d	DN	PN	kv-value (Δp=1 bar)	EPDM	FPM	kg	D	L [1	L2	L3	
[mm]	[mm]		[l/min]	Code	Code		[mm]	[mm]	[mm]	[mm]	
16	10	10	190	167 561 221	167 561 231	0.080	50	110	56		
20	15	10	180	167 561 222	167 561 232	0.090	50	120	56	130	
25	20	10	380	167 561 223	167 561 233	0.190	58	139	65	150	
32	25	10	460	167 561 224	167 561 234	0.200	68	150	71	160	
40	32	10	850	167 561 225	167 561 235	0.350	84	170	85	180	
50	40	10	1080	167 561 226	167 561 236	0.510	97	190	89	200	
63	50	10	1670	167 561 227	167 561 237	0.950	124	220	101	230	
75	65	10	2950	167 561 228	167 561 238	2.370	166	280	136	290	
90	80	10	3600	167 561 229	167 561 239	3.750	200	296	141	310	
110	100	10	4150	167 561 230	167 561 240	5.980	238	336	164	350	



PROGEF Plus silicone free Check valve type 561 With butt fusion spigots IR-Plus SDR11 metric

Model:

- · Material: PP-H / silicone free cleaned
- · Designed for easy installation and removal
- · Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- · For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



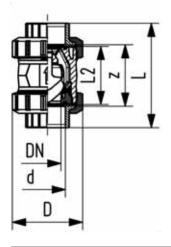
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	e [mm]
20	15	10	180	167 561 242	167 561 252	0.080	50	130	56	1.9
25	20	10	380	167 561 243	167 561 253	0.180	58	143	65	2.3
32	25	10	460	167 561 244	167 561 254	0.190	68	150	71	3.0
40	32	10	850	167 561 245	167 561 255	0.340	84	171	85	3.7
50	40	10	1080	167 561 246	167 561 256	0.490	97	191	89	4.6
63	50	10	1670	167 561 247	167 561 257	0.930	124	220	101	5.8
75	65	10	2950	167 561 248	167 561 258	2.360	166	266	136	6.8
90	80	10	3600	167 561 249	167 561 259	3.680	200	264	141	8.2
110	100	10	4150	167 561 250	167 561 260	5.830	238	301	164	10.0



PROGEF Plus silicone free Check valve type 562 With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- Spring loaded, spring made of stainless steel (1.4310)
- · Spring available in other materials, see spare parts
- · Designed for easy installation and removal
- · Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- For horizontal or vertical installation
- · Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts not compatible with type 360



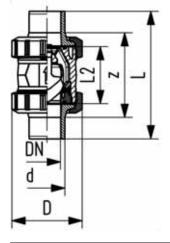
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	z [mm]
16	10	10	190	167 562 201	167 562 211	0.080	50	93	56	67
20	15	10	180	167 562 202	167 562 212	0.080	50	95	56	66
25	20	10	380	167 562 203	167 562 213	0.180	58	109	65	77
32	25	10	460	167 562 204	167 562 214	0.190	68	119	71	83
40	32	10	850	167 562 205	167 562 215	0.340	84	135	85	99
50	40	10	1080	167 562 206	167 562 216	0.480	97	147	89	105
63	50	10	1670	167 562 207	167 562 217	0.880	124	168	101	117
75	65	10	2950	167 562 208	167 562 218	2.310	166	233	136	167
90	80	10	3600	167 562 209	167 562 219	3.580	200	254	141	180
110	100	10	4150	167 562 210	167 562 220	5.930	238	301	164	215



PROGEF Plus silicone free Check valve type 562 With socket fusion spigots metric

Model:

- Material: PP-H / silicone free cleaned
- Spring loaded, spring made of stainless steel (1.4310)
- · Spring available in other materials, see spare parts
- · Designed for easy installation and removal
- Vibration free even at high flow velocity
- · Flow-optimized return cone, double guided
- · For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts not compatible with type 360



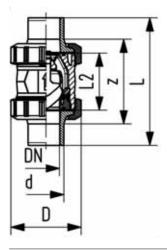
	<i>O</i> ,				<u>'</u>		,	•	
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]
16	10	10	190	167 562 221	167 562 231	0.080	50	110	56
20	15	10	180	167 562 222	167 562 232	0.090	50	120	56
25	20	10	380	167 562 223	167 562 233	0.190	58	139	65
32	25	10	460	167 562 224	167 562 234	0.200	68	150	71
40	32	10	850	167 562 225	167 562 235	0.350	84	170	85
50	40	10	1080	167 562 226	167 562 236	0.510	97	190	89
63	50	10	1670	167 562 227	167 562 237	0.950	124	220	101
75	65	10	2950	167 562 228	167 562 238	2.370	166	280	136
90	80	10	3600	167 562 229	167 562 239	3.750	200	296	141
110	100	10	4150	167 562 230	167 562 240	5.980	238	336	164



PROGEF Plus silicone free Check valve type 562 With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- Spring loaded, spring made of stainless steel (1.4310)
- · Spring available in other materials, see spare parts
- Designed for easy installation and removal
- · Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	e [mm]
20	15	10	180	167 562 242	167 562 252	0.080	50	130	56	1.9
25	20	10	380	167 562 243	167 562 253	0.180	58	143	65	2.3
32	25	10	460	167 562 244	167 562 254	0.190	68	150	71	3.0
40	32	10	850	167 562 245	167 562 255	0.340	84	171	85	3.7
50	40	10	1080	167 562 246	167 562 256	0.490	97	191	89	4.6
63	50	10	1670	167 562 247	167 562 257	0.930	124	220	101	5.8
75	65	10	2950	167 562 248	167 562 258	2.360	166	266	136	8.2
90	80	10	3600	167 562 249	167 562 259	3.680	200	264	141	9.9
110	100	10	4150	167 562 250	167 562 260	5.830	238	301	164	12.0



- Pipes– Socket Fusion Fittings– Butt Fusion Fittings– Electrofusion Fittings

Pressure Ratings for PE-Fittings and PE-Pipes

	SDR11	SDR17.6
PE 80 C = 1.25	PN12.5	PN7.5
PE 80 C = 1.6	PN10	PN6
PE 100 C = 1.25	PN16	PN10
PE 100 C = 1.6	PN12.5	PN7.5

Polyethylene PE 100 – the third Generation of polyethylene

Pressure/temperature diagram for PE PE 100

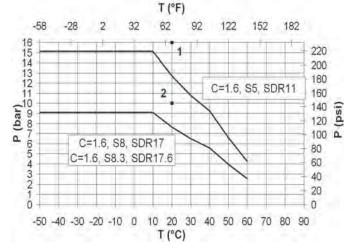
The following pressure/temperature diagram for PE100 pipes and fittings is valid for a lifetime of 25 years.

The design factor of 1.6 (respective 1.25) recommended by GF is incorporated.

It can be used for water or media resembling water, inother words, media which have no derating factor regarding the chemical resistance.

Remark: Please take into account the pressure/ temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared with pipes and fittings. This information can be found in the planning fundamentals of the relevant types of valves, respectivelyspecial fittings.

In case of long-term applications at continuous pressure with temperatures above 40 °C, please contact your GF representative.



- 1 Design Factor C = 1.25, S5, SDR11 for 20 °C water, 50 years
- 2 Design Factor C=1.25, S8.3, SDR17.6 and S8, SDR17 for 20°C water, 50 years
- P Permissible pressure in bar, psi
- T Temperature in °C, °F

Pressure/temperature diagram for PE PE 80

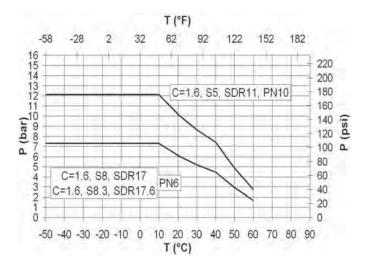
The following pressure/temperature diagram for PE80 pipes and fittings is valid for a lifetime of 25 years.

The design factor of 1.6 recommended by GF is incorporated.

It can be used for water or media resembling water, in other words, media which have no derating factor regarding the chemical resistance.

Remark: Please take into account the pressure/ temperature diagrams for valves and special fittings. Becauseof the construction and/or sealing material used, differences are possible when compared with pipes and fittings. This information can be found in the planning fundamentals of the relevant types of valves, respectively special fittings.

In case of long-term applications at continuous pressure with temperatures above 40 °C please contact your GF representative.



P Permissible pressure in bar, psi

T Temperature in °C, °F

Comparison of nominal pressure for SDR17and SDR17.6

Ascertaining the nominal pressure (PN)

According to the standard, the nominal pressure is a numeric measure of the size of a pipeline part, which refers to the mechanical properties of that pipeline part. Besides the geometric sizes such as SDR, the creep strength/dimensioning tension and the minimum design factor are also taken into consideration.

For plastic piping systems intended to carry water, the nominal pressure value indicates the maximum permitted operating pressure in bar, at a temperature of 20°C, and 50 years in water, referenced to the minimum value of the total (calculation) coefficients. It is calculated using the following equation:

 $[PN] = 10 \cdot \sigma S / [S] = 20 \cdot \sigma S / (SDR - 1)$ (σS in MPa, PNin bar)

Minimum required strength (MRS):

The value of σ_{LCL} at 20°C and 50 years in water, rounded down to the next value in the R10 standard series of numbers.

 σ_{LCL} is understood to mean the equivalent stress ascertained for a given period and a given temperature from the time-dependent creep diagram. LCL stands for Lower Confidence Limit. The R10 standard series of numbers is a Renard standard series of numbers as per ISO 3 and ISO 497.

Design stress (σ S):

The permitted stress for a particular application or operating conditions stated in megapascal. It is derived by dividing the MRS by coefficient C and is calculated as shown in the equation below:

 $\sigma_S = MRS / C$

The calculated value is rounded down to the next value in the R10 standard series of numbers.

Total operating (calculation) coefficient (C):

A total coefficient having a value greater than one, which takes into account both the operating condtions and also the characteristics of the pipeline component that have not yet been entered into the lower confidence limit $\sigma_{\text{\tiny LCL}}.$

If we use the above definition to calculate the relevant nominal pressure for both SDR classes, the result for a PE 100 pipe is as follows:

SDR17 SDR17.6 MRS = 10 MPa MRS = 10 MPa

C = 1.25 (minimum factor) C = 1.25 (minimum factor)

 σ = 8.0 MPa σ = 8.0 MPa σ = 8.0 MPa PN = 10 bar PN = 9.6 bar

The above definitions thus produce a difference of 0.4 bar in PN, but in actual practice this does not matter, as shown below:

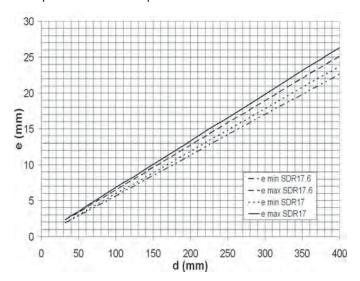
- 1.) Industrial pipelines are normally designed for a service life of 25 years. If from the time-dependent creep diagrams we ascertain for ELTEX TUB 121 or CRP 100 an equivalent stress of σ_{LCL} for the operating point of 25 years and 20°C, we obtain a tension of 10.6 MPa (minimum value of both PE100 materials as per manufacturer's data).
- 2.) If we use this tension to ascertain the dimensioning tension σ_s , and do not round it down, we obtain the value of 8.48 MPa.
- 3.) Thus the actual nominal pressure in practice is:

for SDR 17 => PN = 10.6 bar and for SDR 17.6 => PN = 10.2 bar.

To summarise: Both SDR classes comply with requirements for industrial applications mentioning a PN10 system.

Comparison of geometric dimensions

The two SDR classes differ only slightly in wall thickness, as can be seen from the diagram below. This shows that there is an area where the wall thickness complies with both requirements of both SDR classes.



- d Outside pipe diameter
- e Wall thickness

For butt fusion the wall thickness gap may notexceed 10 %. Looking at the differences of the wallthicknesses of SDR17 and SDR17.6 the resulting gap ismuch lower, that means butt fusion of both SDR's is no problem.

PE Industrial Systems Pipes, Fittings, Unions, Flanges and Flange Adaptors

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PE100 pipes

Pipe PE100 S5/SDR11

Model:

• Material: PE 100, Polyethylene • Colour: RAL 9011 graphite black

• Dimension: DIN 8074

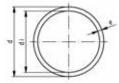
• Pipe length: 5m, with plain ends

* In these two sizes, stiffeners Code No. 733 900 006 (20 x 1,9) and 733 900 007 (25 x 2.3) must be used with socket fusion joints.

d [mm]	PN	Code	kg/m	e [mm]	di [mm]
* 20	16	193 017 156	0.113	1,9	16.2
* 25	16	193 017 157	0.173	2,3	20.4
32	16	193 017 158	0.274	2,9	26.2
40	16	193 017 159	0.434	3,7	32.6
50	16	193 017 160	0.673	4,6	40.8
63	16	193 017 161	1.060	5,8	51.4
75	16	193 017 162	1.480	6,8	61.4
90	16	193 017 163	2.140	8,2	73.6
110	16	193 017 164	3.180	10,0	90.0
125	16	193 017 165	4.120	11,4	102.8
140	16	193 017 166	5.130	12,7	114.6
160	16	193 017 167	6.740	14,6	130.8
180	16	193 017 168	8.510	16,4	147.2
200	16	193 017 169	10.500	18,2	163.6
225	16	193 017 170	13.300	20,5	184.0
250	16	193 017 171	16.300	22,7	204.6
280	16	193 017 172	20.500	25,4	229.2
315	16	193 017 173	25.900	28,6	257.8
355	16	193 017 174	32.900	32,2	290.6
400	16	193 017 175	41.700	36,3	327.4

93 01 71





33 90 00

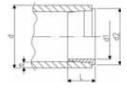
Stiffener PE100

Model:

• Material: PE100

· Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing suring the heating and jointing process.

d [mm]	Code	L [mm]	e [mm]	d1 [mm]	D2 [mm]	d2 [mm]
20	733 900 006	10	1,9	14	18	18
25	733 900 007	11	2,3	18	22	23



93 01 72

Pipe PE100 S3.2/SDR7.4



Model:

• Dimension: DIN 8074

• Colour: RAL 9011 graphite black

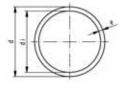
· Length: 5 m

· for socket fusion without stiffeners

· Not suitable for butt fusion

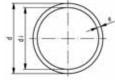
	kg/m	е	di
		[mm]	[mm]
193 017 206	0.156	2,8	14.4
193 017 207	0.243	3,5	18.0
			93 017 206 0.156 2,8





93 01 71





Pipe PE100 S8.3/SDR17.6

Model:

Material: PE 100, Polyethylene
Colour: RAL 9011 graphite black
Dimension: DIN 8074

• Pipe length: 5m, with plain ends

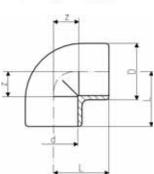
d [mm]	PN	Code	kg/m	e [mm]	di [mm]
50	10	193 017 110	0.445	2,9	44.2
63	10	193 017 111	0.695	3,6	55.8
75	10	193 017 112	0.987	4,3	66.4
90	10	193 017 113	1.400	5,1	79.8
110	10	193 017 114	2.100	6,3	97.4
125	10	193 017 115	2.690	7,1	110.8
140	10	193 017 116	3.370	8,0	124.0
160	10	193 017 117	4.400	9,1	141.8
180	10	193 017 118	5.540	10,2	159.6
200	10	193 017 119	6.860	11,4	177.2
225	10	193 017 120	8.640	12,8	199.4
250	10	193 017 121	10.700	14,2	221.6
280	10	193 017 122	13.300	15,9	248.2
315	10	193 017 123	16.900	17,9	279.2
355	10	193 017 124	21.400	20,1	314.8
400	10	193 017 125	27.200	22,7	354.6
450	10	193 017 126	34.300	25,5	400.0
500	10	193 017 127	42.500	28,4	443.2

Fittings for Socket Fusion

33 10 01

Elbow 90° PE80



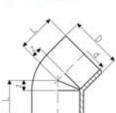


d [mm]	PN	Code	kg	kg/m	D [mm]	L [mm]	z [mm]
20	10	733 100 106	0.022	0.022	31	28	14
25	10	733 100 107	0.031	0.031	36	32	16
32	10	733 100 108	0.048	0.048	44	38	20
40	10	733 100 109	0.078	0.078	54	44	24
50	10	733 100 110	0.129	0.129	66	51	28
63	10	733 100 111	0.228	0.228	82	62	35
75	10	733 100 112	0.311	0.311	93	76	45
90	10	733 100 113	0.498	0.498	110	88	53
110	10	733 100 114	0.864	0.864	134	106	65

33 15 01

Elbow 45° PE80



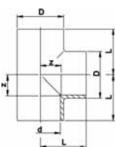


d	PN	Code	kg	kg/m	D	L	z
[mm]					[mm]	[mm]	[mm]
20	10	733 150 106	0.018	0.018	31	21	7
25	10	733 150 107	0.026	0.026	36	24	8
32	10	733 150 108	0.043	0.043	44	28	10
40	10	733 150 109	0.061	0.061	53	33	13
50	10	733 150 110	0.087	0.087	64	36	13
63	10	733 150 111	0.184	0.184	82	43	16
75	10	733 150 112	0.229	0.229	93	51	20
90	10	733 150 113	0.357	0.357	114	58	23
110	10	733 150 114	0.653	0.653	134	68	27

33 20 01

Tee 90° equal PE80





		•					
d	PN	Code	kg	kg/m	D	L	z
[mm]					[mm]	[mm]	[mm]
20	10	733 200 106	0.028	0.028	31	28	14
25	10	733 200 107	0.041	0.041	36	32	16
32	10	733 200 108	0.060	0.060	44	38	20
40	10	733 200 109	0.100	0.100	54	44	24
50	10	733 200 110	0.166	0.166	66	51	28
63	10	733 200 111	0.298	0.298	82	62	35
75	10	733 200 112	0.409	0.409	93	76	45
90	10	733 200 113	0.749	0.749	114	88	53
110	10	733 200 114	1.112	1.112	134	106	65

33 91 01

Sockets equal, PE80



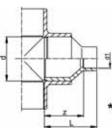


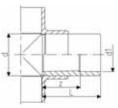
٠	DNI	Codo	ka	ka/m	D		_
d [mm]	PN	Code	kg	kg/m		[mm]	Z [mm]
[mm]					[mm]	[mm]	[mm]
20	10	733 910 106	0.014	0.014	31	35	7
25	10	733 910 107	0.018	0.018	36	39	7
32	10	733 910 108	0.027	0.027	44	43	7
40	10	733 910 109	0.043	0.043	54	48	8
50	10	733 910 110	0.074	0.074	66	54	8
63	10	733 910 111	0.124	0.124	82	62	8
75	10	733 910 112	0.152	0.152	93	70	8
90	10	733 910 113	0.234	0.234	112	81	11
110	10	733 910 114	0.419	0.419	134	96	14

33 91 03

Reducers, PE80







d	d1	PN	Code	kg	kg/m	L	z
[mm]	[mm]					[mm]	[mm]
25	20	10	733 910 337	0.013	0.013	39	23
32	25	10	733 910 341	0.021	0.021	43	27
* 40	20	10	733 910 348	0.023	0.023	48	34
* 40	25	10	733 910 347	0.027	0.027	48	32
40	32	10	733 910 346	0.032	0.032	48	30
* 50	32	10	733 910 353	0.042	0.042	54	36
50	40	10	733 910 352	0.049	0.049	54	34
* 63	20	10	733 910 362	0.057	0.057	64	50
* 63	25	10	733 910 361	0.060	0.060	64	48
* 63	32	10	733 910 360	0.064	0.064	64	46
* 63	40	10	733 910 359	0.070	0.070	64	44
63	50	10	733 910 358	0.086	0.086	64	41
75	63	10	733 910 364	0.103	0.103	62	35
* 90	63	10	733 910 371	0.180	0.180	88	62
90	75	10	733 910 370	0.144	0.144	70	39
110	90	10	733 910 376	0.254	0.254	81	45

33 96 01

End Caps, PE80



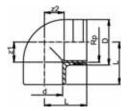


d	PN	Code	kg	kg/m	D	L
[mm]					[mm]	[mm]
20	10	733 960 106	0.010	0.010	30	27
25	10	733 960 107	0.016	0.016	36	30
32	10	733 960 108	0.025	0.025	44	34
40	10	733 960 109	0.038	0.038	53	38
50	10	733 960 110	0.061	0.061	65	44
63	10	733 960 111	0.097	0.097	80	51
75	10	733 960 112	0.150	0.150	91	66
90	10	733 960 113	0.274	0.274	111	77
110	10	733 960 114	0.405	0.405	137	93

Adaptor Fittings for Socket Fusion

33 10 02





Elbow 90°, PE80 metric - Rp

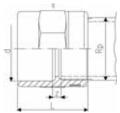
Model:

- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- · Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d	Rp	PN	Code	kg	kg/m	D	L	z1	z2
[mm]	[inch]					[mm]	[mm]	[mm]	[mm]
20	1/2	10	733 100 206	0.024	0.024	30	28	14	14
25	3/4	10	733 100 207	0.033	0.033	35	32	16	16
32	1	10	733 100 208	0.061	0.061	44	38	20	20
40	1 1/4	10	733 100 209	0.094	0.094	54	44	24	24

33 91 02





Adaptor Sockets, PE80 metric - Rp

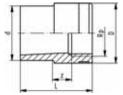
Model:

- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- · Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d	Rp	PN	Code	kg	kg/m	L	s	z
[mm]	[inch]					[mm]	[mm]	[mm]
20	1/2	10	733 910 206	0.020	0.020	35	32	7
25	3/4	10	733 910 207	0.026	0.026	39	36	7
32	1	10	733 910 208	0.042	0.042	45	46	7
40	1 1/4	10	733 910 209	0.068	0.068	53	55	7
50	1 1/2	10	733 910 210	0.098	0.098	54	65	9
63	2	10	733 910 211	0.155	0.155	62	80	9

33 91 04





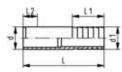
Reducing bush PE80 metric Rp

Model

- With fusion spigot metric and BSP parallel female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	Rp [inch]	PN	Code	kg	kg/m	L [mm]	z [mm]
20	3/8	10	733 910 434	0.012	0.012	33	7
25	1/2	10	733 910 437	0.015	0.015	37	6
32	3/4	10	733 910 441	0.028	0.028	43	8
40	1	10	733 910 446	0.046	0.046	49	9
50	1 1/4	10	733 910 452	0.071	0.071	55	10

53 96 04



Hose connector PE100 metric

Model:

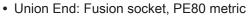
• With socket fusion spigot metric and parallel hose connection

d	d1	PN	Code	kg	kg/m	L	L1	L2
[mm]	[mm]					[mm]	[mm]	[mm]
20	20	10	753 960 406	0.006	0.006	55	27	14
25	25	10	753 960 407	0.015	0.015	68	36	16
32	32	10	753 960 408	0.024	0.024	77	36	18
40	40	10	753 960 409	0.035	0.035	80	42	20
50	50	10	753 960 410	0.056	0.056	90	48	23
63	60	10	753 960 411	0.093	0.093	100	50	27

Unions for Socket Fusion

33 58 01

Adapter union PE80 - PE80 metric



- Union Bush: Brass with fusion socket insert, PE80 metric
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

d [mm]	d1 [mm]	PN	Code	kg	kg/m	G [inch]	L [mm]	z1 [mm]	D2 [mm]	d2 [mm]	z2 [mm]
		40		0.400	0.400						
20	20	10	733 580 106	0.163	0.163		46	6	46	46	3
25	25	10	733 580 107	0.214	0.214	1 1/2	49	6	52	52	3
32	32	10	733 580 108	0.294	0.294	2	51	6	64	64	3
40	40	10	733 580 109	0.473	0.473	2 1/2	56	8	79	79	3
50	50	10	733 580 110	0.491	0.491	2 2/3	61	8	85	85	3
63	63	10	733 580 111	0.730	0.730	3 1/2	69	8	104	104	3

33 58 02

당이당

Adaptor union PE80 - brass metric Rp

Model:

- Union End: Fusion socket, PE80 metric
- Union bush: nickel-plated, parallel female thread Rp
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

d	Rp	PN	Code	kg	kg/m	G	L [22.22]	d1	z1	z2
[mm]	[inch]					[inch]	[mm]	[mm]	[mm]	[mm]
20	1/2	10	733 580 206	0.209	0.209	1 1/4	46	46	6	10
25	3/4	10	733 580 207	0.269	0.269	1 1/2	48	52	6	9
32	1	10	733 580 208	0.376	0.376	2	51	64	6	8
40	1 1/4	10	733 580 209	0.596	0.596	2 1/2	56	79	8	7
50	1 ½	10	733 580 210	0.666	0.666	2 3/4	59	85	8	7
63	2	10	733 580 211	0.960	0.960	3 1/2	65	104	8	5

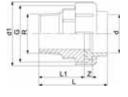
Adaptor union PE80 - brass metric R

- Union End: Fusion socket, PE80 metric
- Union bush: nickel-plated, taper male thread R
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

d	R	PN	Code	kg	kg/m	d1	G	L	L1	z
[mm]	[inch]					[mm]	[inch]	[mm]	[mm]	[mm]
20	1/2	10	733 580 706	0.260	0.260	46	1 1/4	62	40	6
25	3/4	10	733 580 707	0.324	0.324	52	1 1/2	65	41	6
32	1	10	733 580 708	0.470	0.470	64	2	71	45	6
40	1 1/4	10	733 580 709	0.754	0.754	79	2 1/2	78	48	8
50	1 ½	10	733 580 710	0.781	0.781	85	2 3/4	81	43	8
63	2	10	733 580 711	1.166	1.166	104	3 1/2	91	54	8

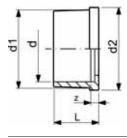
33 58 07





34 60 01





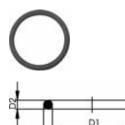
Union end PE80

Model:

- · With fusion socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

d [mm]	PN	Code	kg	kg/m	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	Z [mm]
20	10	734 600 106	0.006	0.006	28	30	19	5	5
25	10	734 600 107	0.013	0.013	36	39	21	5	5
32	10	734 600 108	0.015	0.015	42	45	23	6	5
40	10	734 600 109	0.026	0.026	53	57	25	6	5
50	10	734 600 110	0.025	0.025	59	63	28	7	5
63	10	734 600 111	0.044	0.044	74	79	32	8	5

EPDM 48 41 00 FPM 49 41 00



O-Ring Gaskets

Model:

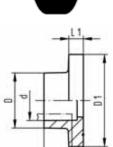
- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C
- * for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

d [mm]	DN [mm]	EPDM Code	FPM Code	kg	kg/m	D [mm]	D1 [mm]	D2 [mm]
10 - 12	8	748 410 004	749 410 004	0.001	0.001	18	12	2.62
16	10	748 410 005	749 410 005	0.001	0.001	21	16	2.62
20	15	748 410 006	749 410 006	0.001	0.001	27	20	3.53
25	20	748 410 007	749 410 007	0.002	0.002	35	28	3.53
32	25	748 410 008	749 410 008	0.002	0.002	40	33	3.53
40	32	748 410 009	749 410 009	0.007	0.007	51	41	5.34
50	40	748 410 010	749 410 010	0.060	0.060	58	47	5.34
63	50	748 410 011	749 410 011	0.003	0.003	70	60	5.34
75	65	748 410 014	749 410 014	0.012	0.012	93	82	5.34
90	80	748 410 015	749 410 015	0.015	0.015	112	101	5.34
* 90	80	748 410 248	749 410 248	0.020	0.020	105	95	5.34
110	100	748 410 016	749 410 016	0.031	0.031	134	120	6.99

Flange Adaptors, Flanges and Gaskets for Socket Fusion

53 79 02





Flange adaptor PE100 Jointing face flat/serrated

Model

- Counterpart: Flange Adaptor flat/serrated or with O-ring groove
- Connection: according to EN ISO 15494-, DIN 16963-11
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Flanges: PP with steel core, No. 27 70 02, PP-V, No 27 70 04

d [mm]	DN [mm]	PN	Code	kg	kg/m	D [mm]	D1 [mm]	L [mm]	L1 [mm]	Z [mm]
[]	[]					[]	[]	[]	[]	[]
20	15	10	753 790 206	0.013	0.013	27	45	19	7	5
25	20	10	753 790 207	0.022	0.022	33	58	21	9	5
32	25	10	753 790 208	0.035	0.035	41	68	23	10	5
40	32	10	753 790 209	0.052	0.052	50	78	25	11	5
50	40	10	753 790 210	0.061	0.061	61	88	28	12	5
63	50	10	753 790 211	0.095	0.095	76	102	32	14	5
75	65	10	753 790 212	0.163	0.163	90	122	36	16	5
90	80	10	753 790 213	0.203	0.203	108	138	42	17	7
110	100	10	753 790 214	0.293	0.293	131	158	48	18	7

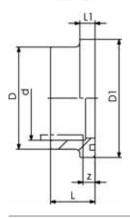
33 81 01

Flange adaptor PE80 Jointing face with o-ring groove

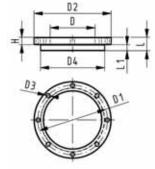
Model:



- Counterpart: Flange adaptor flat/serrated 53 79 02
- Gasket: O-Ring EPDM No. 48 41 00
- Flanges: PP with steel core, No. 27 70 02, PP-V, No 27 70 04



DN	PN	Code	kg	kg/m	D	D1	L	L1	Z	
[mm]					[mm]	[mm]	[mm]	[mm]	[mm]	
15	10	733 810 106	0.008	0.008	27	34	22	9	8	
20	10	733 810 107	0.012	0.012	33	41	24	10	8	
25	10	733 810 108	0.019	0.019	41	50	26	10	8	
32	10	733 810 109	0.031	0.031	50	61	30	13	10	
40	10	733 810 110	0.044	0.044	61	73	33	13	10	
50	10	733 810 111	0.072	0.072	76	90	37	14	10	
65	10	733 810 112	0.112	0.112	90	106	40	15	10	
80	10	733 810 113	0.185	0.185	108	125	47	16	12	
100	10	733 810 114	0.285	0.285	131	150	55	18	13	
	[mm] 15 20 25 32 40 50 65 80	[mm]	[mm]	[mm]	[mm]	[mm] 733 810 106 0.008 0.008 27 20 10 733 810 107 0.012 0.012 33 25 10 733 810 108 0.019 0.019 41 32 10 733 810 109 0.031 0.031 50 40 10 733 810 110 0.044 0.044 61 50 10 733 810 111 0.072 0.072 76 65 10 733 810 112 0.112 0.112 90 80 10 733 810 113 0.185 0.185 108	[mm] T33 810 106 0.008 0.008 27 34 20 10 733 810 107 0.012 0.012 33 41 25 10 733 810 108 0.019 0.019 41 50 32 10 733 810 109 0.031 0.031 50 61 40 10 733 810 110 0.044 0.044 61 73 50 10 733 810 111 0.072 0.072 76 90 65 10 733 810 112 0.112 0.112 90 106 80 10 733 810 113 0.185 0.185 108 125	[mm] 733 810 106 0.008 0.008 27 34 22 20 10 733 810 107 0.012 0.012 33 41 24 25 10 733 810 108 0.019 0.019 41 50 26 32 10 733 810 109 0.031 0.031 50 61 30 40 10 733 810 110 0.044 0.044 61 73 33 50 10 733 810 111 0.072 0.072 76 90 37 65 10 733 810 112 0.112 0.112 90 106 40 80 10 733 810 113 0.185 0.185 108 125 47	[mm] 733 810 106 0.008 0.008 27 34 22 9 20 10 733 810 107 0.012 0.012 33 41 24 10 25 10 733 810 108 0.019 0.019 41 50 26 10 32 10 733 810 109 0.031 0.031 50 61 30 13 40 10 733 810 110 0.044 0.044 61 73 33 13 50 10 733 810 111 0.072 0.072 76 90 37 14 65 10 733 810 112 0.112 0.112 90 106 40 15 80 10 733 810 113 0.185 0.185 108 125 47 16	[mm] [m] 2 2 4



Blanking flange set PE Combined jointing face flat and serrated metric

Model:

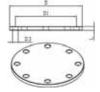
- d63 d315: Backing Flange PP-V with End Blank PE
 d355 d630: Backing Flange PP/Steel with End Blank PE
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- Bolt circle PN 10

AL: number of holes

L: length of the End Blank

L: len	gtn of	tne	Ena B	alik					
d [mm]	DN [mm]	PN	Code		kg		kg/m		
63 75 90 110 125	50 65 80 100 100	16 16 16 16 16	753 70 753 70 753 70 753 70 753 70	0 612 0 613 0 614	0. 0. 1.	674 910 921 158 678	0.67 0.91 0.92 1.15 1.67	0 1 8	
140 160 180 200 225	125 150 150 200 200	16 16 16 16 16	753 70 753 70 753 70 753 70 753 70	0 617 0 618 0 619	2. 2. 3.	913 373 430 495 744	1.91 2.37 2.43 3.49 3.74	3 0 5	
250 280 315 355 400	250 250 300 350 400	16 16 16 16 16	753 70 753 70 753 70 753 70 753 70	0 622 0 623 0 624 0 625	6. 8. 23. 30.	051 305 894 198 766	6.05 6.30 8.89 23.19 30.76	5 4 8 6	
450 500 560 630	500 500 600 600	10 10 10 10	753 70 753 70 753 70 753 70	0 627 0 628	47. 67.	271 165 147	44.27 47.16 67.14	5 7	
			70070	0 029	00.	574	68.57	!	
d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	H [mm]	L [mm]	4 L1 [mm]	AL
		D1	D2 [mm] 5 165 6 185 7 200 7 220	D3	D4	Н	L	L1	4 4 8 8 8
[mm] 63 75 90 110	75 89 105 125	D1 [mm] 125 145 160 180	D2 [mm] 5 165 6 185 0 200 0 220 0 220 0 250 0 285 0 285 0 340	D3 [mm] 18 18 18 18	D4 [mm] 102 122 138 158	H [mm] 24 26 27 28	L [mm] 30 30 30 30	L1 [mm] 14 16 17 18	4 4 8 8
[mm] 63 75 90 110 125 140 160 180 200	[mm] 75 89 105 125 132 155 175 180 232	D1 [mm] 125 145 160 180 210 240 295	D2 [mm] 5 165 185 6 200 7 220 7 220 7 220 7 285 7 340 7 395 7 395 7 445 7 515	D3 [mm] 18 18 18 18 18 18 22 22 22	D4 [mm] 102 122 138 158 158 188 212 212 268	H [mm] 24 26 27 28 28 30 32 32 34	L [mm] 30 30 30 35 40 45 50	L1 [mm] 14 16 17 18 25 25 25 30 32	4 4 8 8 8 8 8 8 8





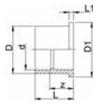
Blanking Flanges PE100

Model:

- made out of sheet material
- Bolt circle PN 10

d [mm]	DN [mm]	PN	Code	L [mm]	D [mm]	D1 [mm]	D3 [mm]	AL
63	50	2,5	700 647 886	15	165	125	18	4
75	65	2,5	700 647 887	15	185	145	18	4
90	80	2,5	700 647 888	15	200	160	18	8
110	100	2,5	700 647 889	15	220	180	18	8
125	100	2,5	700 647 890	15	220	180	18	8
140	125	2,5	700 647 891	15	250	210	18	8
160	150	2,5	700 647 892	20	285	240	22	8
180	150	2,5	700 647 893	25	285	240	22	8
200	200	2,5	700 647 894	25	340	295	22	8
225	200	2,5	700 647 895	30	340	295	22	8
250	250	2,5	700 647 896	30	395	350	22	12
280	250	2,5	700 647 897	30	395	350	22	12
315	300	2,5	700 647 898	40	445	400	22	12
355	350	2,5	700 647 899	40	515	460	22	16
400	400	2,5	700 647 900	45	574	515	26	16
450	500	2,5	700 647 901	55	670	620	26	20
500	500	2,5	700 647 902	60	670	620	26	20
560	600	2,5	700 647 903	65	780	725	30	20
630	600	2,5	700 647 904	75	780	725	30	20





Outlet flange adaptor PE80 Jointing face flat

Model:

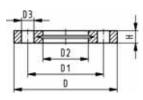
- · With fusion socket metric
- Suitable for wafer check valves Type 369
 To be installed on the outlet side of the valve
 Use flanges PP-V 27 70 04

d [mm]	DN [mm]	PN	Code	kg	kg/m	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
40	32	6	733 800 009	0.065	0.065	50	78	55	11	35
50	40	6	733 800 010	0.088	0.088	61	88	61	12	38
63	50	6	733 800 011	0.136	0.136	76	102	69	14	41
75	65	6	733 800 012	0.223	0.223	90	122	79	16	49
90	80	6	733 800 013	0.357	0.357	107	138	100	17	65
110	100	6	733 800 014	0.482	0.482	130	158	105	18	62

27 70 04 27 70 05







Backing Flanges, PP-V For socket systems metric

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- · With V-groove which applies force evenly on collar
- · With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10
- * Combined version, metric-ANSI

AL: number of holes

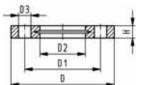
1) Suitable for socket- and butt fusion systems (no pictograph on flange)

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
1) 20	15	16	727 700 406	0.093	95	65.0	28	14	16	4	M12
1) 25	20	16	727 700 407	0.120	105	75.0	34	14	17	4	M12
1) 32	25	16	727 700 408	0.151	115	85.0	42	14	18	4	M12
1) 40	32	16	727 700 409	0.244	140	100.0	51	18	20	4	M16
1) 50	40	16	727 700 410	0.297	150	110.0	62	18	22	4	M16
1) 63	50	16	727 700 411	0.362	165	125.0	78	18	24	4	M16
1) 75	65	16	727 700 412	0.487	185	145.0	92	18	26	4	M16
90	80	16	727 700 413	0.550	200	160.0	110	18	27	8	M16
110	100	16	727 700 414	0.640	220	180.0	133	18	28	8	M16

27 70 14 27 70 15







Backing Flanges, PP-V For socket systems Inch ANSI

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- · With V-groove which applies force evenly on collar
- · With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150
- 727701414, 727700417, 727700419: only for use with original metric flange adaptors
- 1) Suitable for socket- and butt fusion systems (no pictograph on flange)

AL: number of holes

* Combined version, metric-ANSI

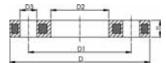
Combined version, medito / liver								
Inch	DN [mm]	d [mm]	PN	Code	kg	kg/m		
1 1/2	15	20	16	727 701 406	0.091	0.091		
1 3/4	20	25	16	727 701 407	0.120	0.120		
11	25	32	16	727 701 408	0.147	0.147		
1 1 1/4	32	40	16	727 701 409	0.246	0.246		
1 1 1/2	40	50	16	727 701 410	0.299	0.299		
12	50	63	16	727 701 411	0.361	0.361		
1 2 1/2	65	75	16	727 701 412	0.492	0.492		
3	80	90	16	727 701 413	0.605	0.605		
4	100	110	16	727 701 414	0.704	0.704		

Inch	D	D1	D2	D3	н	AL	sc
	[mm]	[mm]	[mm]	[mm]	[mm]		
1 1/2	95	60.0	28	16	16	4	M12
1 3/4	105	70.0	34	16	17	4	M12
₁1	115	79.0	42	16	18	4	M12
1 1 1/4	140	89.0	51	16	20	4	M16
1 1 1/2	150	98.0	62	16	22	4	M16
12	165	121.0	78	19	24	4	M16
1 2 1/2	185	140.0	92	19	26	4	M16
3	200	152.0	110	19	27	4	M16
4	229	190.0	133	19	28	8	M16

27 70 02







Backing flange PP-Steel For socket systems metric

Model:

- PP-GF (30% glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10
- ¹ Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100
- ² Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250

AL: number of holes

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20	15	16	727 700 206	0.216	95	65	28	14	12	4	M12
25	20	16	727 700 207	0.279	105	75	34	14	12	4	M12
32	25	16	727 700 208	0.429	115	85	42	14	16	4	M12
40	32	16	727 700 209	0.621	140	100	51	18	16	4	M16
50	40	16	727 700 210	0.722	150	110	62	18	20	4	M16
63	50	16	727 700 211	1.084	165	125	78	18	20	4	M16
75	65	16	727 700 212	1.349	185	145	92	18	20	4	M16
90	80	16	727 700 213	1.369	200	160	110	18	20	8	M16
110	100	16	727 700 214	1.522	220	180	133	18	20	8	M16

27 70 12



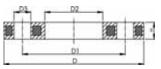
Backing Flanges, PP/Steel For socket systems Inch/ANSI

Model:

- For Flange Adaptors BS/ANSI
- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150
- 727701214, 727700217: only for use with original metric flange adaptors

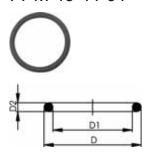
AL: number of holes





d	DN	d	PN	Code	kg	kg/m	D1	D2	D3	D	Н	AL	sc	
[inch]	[mm]	[mm]					[mm]	[mm]	[mm]	[mm]	[mm]			
1/2	15	20	16	727 701 206	0.213	0.213	60	28	16	95	12	4	M12	
3/4	20	25	16	727 701 207	0.260	0.260	70	34	16	105	12	4	M12	
1	25	32	16	727 701 208	0.416	0.416	79	42	16	115	16	4	M12	
1 1/4	32	40	16	727 701 209	0.730	0.730	89	51	16	140	16	4	M16	
1 ½	40	50	16	727 701 210	0.809	0.809	98	62	16	150	18	4	M16	
2	50	63	16	727 701 211	0.866	0.866	121	78	19	165	18	4	M16	
2 1/2	65	75	16	727 701 212	1.117	1.117	140	92	19	185	18	4	M16	
3	80	90	16	727 701 213	1.492	1.492	152	110	19	200	20	4	M16	
4	100	110	16	727 701 214	1.695	1.695	190	133	19	229	20	8	M16	

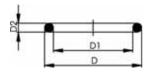
EPDM 48 41 01 FPM 49 41 01



O-Ring Gaskets

- For Flange Adaptors
- Hardness approx. 65° Shore

d [mm]	DN [mm]	EPDM Code	FPM Code	kg	kg/m	D [mm]	D1 [mm]	D2 [mm]
20	15	748 410 001	749 410 001	0.002	0.002	31	23	3.53
25	20	748 410 007	749 410 007	0.002	0.002	35	28	3.53
32	25	748 410 002	749 410 002	0.003	0.003	43	36	3.53
40	32	748 410 003	749 410 003	0.001	0.001	55	44	5.34
50	40	748 410 012	749 410 012	0.008	0.008	64	53	5.34
63	50	748 410 013	749 410 013	0.011	0.011	80	69	5.34



d [mm]	DN [mm]	EPDM Code	FPM Code	kg	kg/m	D [mm]	D1 [mm]	D2 [mm]
75	65	748 410 014	749 410 014	0.012	0.012	93	82	5.34
90	80	748 410 015	749 410 015	0.015	0.015	112	101	5.34
110	100	748 410 016	749 410 016	0.031	0.031	134	120	6.99

Fittings for Butt Fusion

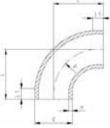
Bend 90° PE100 SDR11

Model

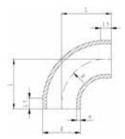
- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100



53 01 87



d	FM	Code	kg	L	L1	R	е	PF	
[mm]				[mm]	[mm]	[mm]	[mm]		
20	IR	753 018 706	0.007	38	23	15	1.9	2 68 240 006	
25	IR	753 018 707	0.013	42	23	19	2.3	2 68 240 006	
32	IR	753 018 708	0.025	46	22	24	2.9	2 68 240 006	
40	IR	753 018 709	0.041	51	21	30	3.7	2 68 240 006	
50	IR	753 018 710	0.065	58	21	37	4.6	2 68 240 006	
63	IR	753 018 711	0.124	66	21	45	5.8	2 68 240 006	
75	IR	753 018 712	0.246	100	20	90	6.8	2 68 240 006	
90	IR	753 018 713	0.355	100	20	90	8.2	2 68 240 006	
110	IR	753 018 714	0.757	141	25	130	10.0	2 68 240 006	
125	IR	753 018 690	1.014	140	15	125	11.4	2 68 240 002	
140	IR	753 018 691	1.383	155	15	140	12.7	2 68 240 002	
160	IR	753 018 692	1.991	175	15	160	14.6	2 68 240 002	
180	IR	753 018 693	2.876	195	15	180	16.4	2 68 240 002	
200	IR	753 018 694	3.882	215	15	200	18.2	2 68 240 002	
225	IR	753 018 695	5.587	245	20	225	20.5	2 68 240 002	
250		753 018 621	6.713	256	48	232	22.7	2 68 240 002	
280		753 018 622	9.885	286	48	262	25.4	2 68 240 002	
315		753 018 623	14.158	321	48	297	28.6	2 68 240 002	
355		753 021 024	17.200	380	38	355	32.3	2 68 240 040	
400		753 021 025	31.100	434	41	400	36.3	2 68 240 040	
450		753 021 026	38.300	445	49	450	40.9	2 68 240 040	
500		753 021 027	47.300	450	49	500	45.5	2 68 240 040	



Bend 90° PE100 SDR17/17.6

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	R [mm]	e [mm]	PF
50	IR	753 018 635	0.052	58	21	37	2.9	2 68 240 026
63	IR	753 018 636	0.087	66	21	45	3.6	2 68 240 026
75	l IR	753 018 737	0.176	100	20	90	4.3	2 68 240 026
90	IR	753 018 738	0.245	100	20	90	5.1	2 68 240 026
110	IR	753 018 739	0.513	141	20	130	6.3	2 68 240 026
125	IR	753 018 590	0.692	140	15	125	7.1	2 68 240 022
140	IR	753 018 591	0.904	155	15	140	8.0	2 68 240 022
160	IR	753 018 592	1.350	175	15	160	9.1	2 68 240 022
180	IR	753 018 593	1.935	195	15	180	10.2	2 68 240 022
200	IR	753 018 594	2.578	215	15	200	11.4	2 68 240 022
225	IR	753 018 595	3.542	245	15	225	12.8	2 68 240 022
250		753 018 521	4.645	256	48	232	14.2	2 68 240 002
280		753 018 522	7.020	286	48	262	15.9	2 68 240 002
315		753 018 523	10.099	321	48	297	17.9	2 68 240 002
355		753 020 824	11.300	340	38	355	21.1	2 68 240 040
400		753 020 825	15.700	345	41	400	23.7	2 68 240 040
450		753 020 826	25.868	449	49	450	25.8	2 68 240 040
500		753 020 827	35.000	449	49	500	32.0	2 68 240 040

53 10 86



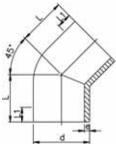
Elbow 90° PE100 SDR11

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d	FM	Code	kg	L	L1	е
[mm]				[mm]	[mm]	[mm]
20	IR	753 108 606	0.009	38	25	1,9
25	IR	753 108 607	0.013	42	26	2,3
32	IR	753 108 608	0.026	46	27	2,9
40	IR	753 108 609	0.047	51	22	3,7
50	IR	753 108 610	0.086	58	23	4,6
63	IR	753 108 611	0.150	66	21	5,8

53 15 86





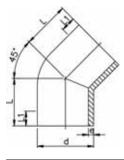
Elbow 45° PE100 SDR11

- Conventional butt-welding according to DVS 2207 part 1
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d	FM	Code	kg	L	L1	е	PF
[mm]				[mm]	[mm]	[mm]	
20	IR	753 158 606	0.007	32	24	1,9	2 68 240 008
25	IR	753 158 607	0.013	34	25	2,3	2 68 240 008
32	IR	753 158 608	0.019	36	25	2,9	2 68 240 008
40	IR	753 158 609	0.036	39	25	3,7	2 68 240 008
50	IR	753 158 610	0.059	42	26	4,6	2 68 240 008
63	IR	753 158 611	0.103	47	29	5,8	2 68 240 008
75	IR	753 158 612	0.146	49	29	6,8	2 68 240 008
90	IR	753 158 613	0.241	57	34	8,2	2 68 240 008
110	IR	753 158 614	0.442	70	43	10,0	2 68 240 008
125	IR	753 158 615	0.638	79	48	11,4	2 68 240 003
140	IR	753 158 616	0.902	88	55	12,7	2 68 240 003
160	IR	753 158 617	1.340	100	60	14,6	2 68 240 003
200	IR	753 158 619	2.612	124	75	18,2	2 68 240 003
225	IR	753 158 620	3.638	140	85	20,5	2 68 240 003

53 15 85





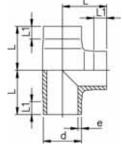
Elbow 45° PE100 SDR17.6

- · Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d	FM	Code	kg	L	L1	е	PF	
[mm]				[mm]	[mm]	[mm]		
50	IR	753 158 535	0.045	42	26	2,9	2 68 240 008	
63	IR	753 158 536	0.091	47	29	3,6	2 68 240 008	
75	IR	753 158 412	0.125	49	29	4,7	2 68 240 008	
90	IR	753 158 413	0.198	57	34	5,6	2 68 240 028	
110	IR	753 158 414	0.375	70	43	6,9	2 68 240 028	
125	IR	753 158 540	0.542	79	48	7,1	2 68 240 028	
140	IR	753 158 541	0.784	88	55	8,0	2 68 240 023	
160	IR	753 158 542	1.190	100	60	9,1	2 68 240 023	
200	IR	753 158 544	2.331	124	75	11,4	2 68 240 023	
225	IR	753 158 545	3.282	140	85	12,8	2 68 240 023	

53 20 86





Tee 90° equal PE100 SDR11

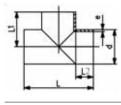
Model

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d	FM	Code	kg	L	L1	e []
[mm]				[mm]	[mm]	[mm]
20	IR	753 208 606	0.013	38	24	1,9
25	IR	753 208 607	0.021	42	26	2,3
32	IR	753 208 608	0.042	46	26	2,9
40	IR	753 208 609	0.065	51	22	3,7
50	IR	753 208 610	0.111	58	22	4,6
63	IR	753 208 611	0.202	66	21	5,8
75	IR	753 208 612	0.312	75	20	6,8
90	IR	753 208 613	0.553	90	20	8,2
110	IR		1.002	110	20	10,0
125	IR	753 208 615	1.509	125	25	11,4
140	IR	753 208 616	2.105	140	28	12,7
160	IR	753 208 617	3.085	160	28	14,6
180	IR	753 208 668	5.062	190	70	16,4
200	IR	753 208 619	5.982	200	35	18,2
225	IR	753 208 620	8.090	220	35	20,5
250		753 208 671	13.326	272	90	22,7
280		753 208 672	20.458	313	108	25,4
315		753 208 673	27.400	348	114	28,6
355		753 221 024	30.500	352	97	32,3
400		753 221 025	39.000	337	100	36,4
450		753 221 026	45.000	450	130	40,9
500		753 221 027	75.500	450	130	45,5

53 20 86



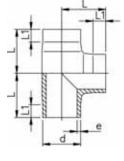


Tee 90° equal PE100 SDR11

- Conventional butt-welding according to DVS 2207 part 1
- Machined
- 10 bar Gas / 16 bar Water
- * on request

d [mm]	Code	kg	L [mm]	L1 [mm]	z [mm]	e [mm]
	753 211 028		780	500	80	50.8
	753 211 029 753 211 030	177.442	850 950	540 650	80 75	57.2 64.5
* 800	753 211 031	233.384	1013	700	75	72.6

53 20 85



Tee 90° equal PE100 SDR17/17.6

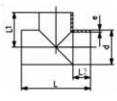
Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]	PF
50	IR	753 208 535	0.080	59	26	2,9	2 68 240 021
63	IR	753 208 536	0.187	71	25	3,6	2 68 240 021
75	IR	753 208 412	0.232	74	20	4,8	2 68 240 021
90	IR	753 208 413	0.408	90	20	5,6	2 68 240 021
110	IR	753 208 414	0.724	110	20	6,9	2 68 240 021
125	IR	753 208 540	1.175	124	27	7,1	2 68 240 029
140	IR	753 208 541	1.623	141	33	8,0	2 68 240 029
160	IR	753 208 542	2.431	160	40	9,1	2 68 240 029
180	IR	753 208 543	3.756	190	70	10.2	2 68 240 029
200	IR	753 208 544	5.243	210	70	11,4	2 68 240 029
225	IR	753 208 545	1.872	238	80	12,8	2 68 240 029
250		753 208 546	9.964	272	90	14,2	2 68 240 029
280		753 208 547	14.265	313	108	15,9	2 68 240 029
315		753 208 548	22.284	348	114	17,9	2 68 240 029
355		753 220 824	22.593	330	95	21,1	2 68 240 040
400		753 220 825	30.500	345	104	23,7	2 68 240 040
450		753 220 826	38.000	450	130	26,7	2 68 240 040
500		753 220 827	52.600	445	130	29,7	2 68 240 040

53 20 85





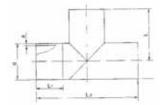
Tee 90° equal PE100 SDR17/17.6

Model:

- Conventional butt-welding according to DVS 2207 part 1
- Machined
- 5 bar Gas / 10 bar Water
- * on request

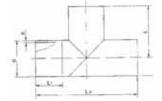
d [mm]	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]
560	753 220 831	153.300	780	500	80	33.2
630	753 208 832	205.500	850	540	80	37.4
710	753 220 833	121.141	950	650	75	42.1
* 800	753 220 834	158.977	1013	700	75	47.4

Tee 90° equal PE100 S5/SDR11



- For IR, butt- and electro fusion
- Reducing factor = 0,6

d	Code	kg	L	L1	L2	е
[mm]			[mm]	[mm]	[mm]	[mm]
110	700 649 056	2.230	205	150	410	10,0
125	700 649 057	2.400	215	150	430	11,4
140	700 649 058	3.100	220	150	440	12,8
160	700 649 059	4.150	230	150	460	14,6
180	700 649 060	5.320	240	150	480	16,4
200	700 649 061	6.810	250	150	500	18,2
225	700 649 062	8.960	265	150	530	20,5
250	700 649 063	16.200	375	250	750	22,8
280	700 649 064	20.950	390	250	780	25,5
315	700 649 065	31.540	460	300	920	28,7
355	700 649 066	41.250	480	300	960	32,3
400	700 649 067	5.380	500	1000	1000	36,4
450	700 649 068	70.400	525	1050	1050	41,0
500	700 649 069	98.380	600	1200	1200	45,5
560	700 649 070	131.830	630	1260	1260	51,0
630	700 649 071	172.600	665	1330	1330	57,3



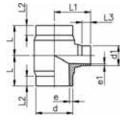
Tee 90° equal PE100 S8/SDR17.6

- For IR, butt- and electro fusionReducing factor = 0,6

	Codo	le au		1.4	1.0	
d	Code	kg	L	L1	L2	е
[mm]			[mm]	[mm]	[mm]	[mm]
110	700 649 072	9.782	205	150	410	6,3
125	700 649 073	13.430	215	150	430	7,1
140	700 649 074	18.342	220	150	440	8,0
160	700 649 075	20.062	230	150	460	9,1
180	700 649 076	26.736	240	150	480	10,2
200	700 649 077	36.063	250	150	500	11,4
225	700 649 078	1.162	265	150	530	12,8
250	700 649 079	1.584	375	250	750	14,2
280	700 649 080	2.046	390	250	780	15,9
315	700 649 081	2.739	460	300	920	17,9
355	700 649 082	29.960	480	300	960	20,1
400	700 649 083	4.495	500	300	1000	22,7
450	700 649 084	55.340	525	300	1050	25,5
500	700 649 085	10.692	600	350	1200	28,3
560	700 649 086	13.827	630	350	1260	31,7
630	700 649 087	20.816	665	350	1330	35,7

53 20 83

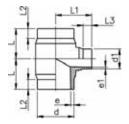




Tee 90° reduced PE100 SDR11

- Conventional butt-welding according to DVS 2207 part 1
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

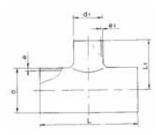
d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]	PF
63	32	IR	753 208 351	0.161	65	70	25	25	5,8	2,9	2 68 240 017
63	50	IR	753 208 352	0.180	65	70	25	25	5,8	4,6	2 68 240 017
75	32	IR	753 208 353	0.255	70	75	25	25	6,8	2,9	2 68 240 017
75	50	IR	753 208 354	0.265	70	75	25	25	6,8	4,6	2 68 240 017
75	63	IR	753 208 355	0.278	70	75	25	25	6,8	5,8	2 68 240 017
90	50	IR	753 208 357	0.435	80	85	25	25	8,2	4,6	2 68 240 017
90	63	IR	753 208 358	0.448	80	85	25	25	8,2	5,8	2 68 240 017
90	75	IR	753 208 359	0.462	80	85	25	25	8,2	6,8	2 68 240 017
110	32	IR	753 208 360	0.685	90	95	30	25	10,0	2,9	2 68 240 017
110	50	IR	753 208 361	0.694	90	95	30	25	10,0	4,6	2 68 240 017
110	63	IR	753 208 362	0.709	90	95	30	25	10,0	5,8	2 68 240 017
110	75	IR	753 208 363	0.717	90	95	30	25	10,0	6,8	2 68 240 017
110	90	IR	753 208 364	0.734	90	95	30	25	10,0	8,2	2 68 240 017
160	63	IR	753 208 371	2.269	142	135	50	30	14,6	5,8	2 68 240 017
160	75	IR	753 208 372	2.255	142	135	50	30	14,6	6,8	2 68 240 017
160	90	IR	753 208 373	2.317	142	135	50	30	14,6	8,2	2 68 240 017
160	110	IR	753 208 374	2.353	142	135	50	30	14,6	10,0	2 68 240 017
225	90	IR	753 208 388	4.759	155	165	40	30	20,5	8,2	2 68 240 017
225	110	IR	753 208 389	4.796	155	165	40	30	20,5	10,0	2 68 240 017
225	160	IR	753 208 391	4.854	155	165	40	30	20,5	14,6	2 68 240 017
з 250	110		753 221 031	8.199	228	197	140	37	22,7	10,0	2 68 240 040
з 250	160		753 221 032	8.564	229	219	117	60	22,7	14,6	2 68 240 040



Tee 90° reduced PE100 SDR17.6

- Conventional butt-welding according to DVS 2207 part 1
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
 5 bar Gas / 10 bar Water
- * Branch SDR11

d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]	
* 63	32	IR	753 208 301	0.163	65	70	25	25	3,6	2,9	
63	50	IR	753 208 302	0.171	65	70	25	25	3,6	2,9	
* 75	32	IR	753 208 303	0.231	70	75	25	25	4,3	2,9	
75	50	IR	753 208 304	0.250	70	75	25	25	4,3	2,9	
75	63	IR	753 208 305	0.263	70	75	25	25	4,3	3,6	
90	50	IR	753 208 307	0.411	80	85	25	25	5,1	2,9	
90	63	IR	753 208 308	0.329	80	85	25	25	5,1	3,6	
90	75	IR	753 208 309	0.339	80	85	25	25	5,1	4,3	
* 110	32	IR	753 208 310	0.643	90	95	30	25	6,3	2,9	
110	50	IR	753 208 311	0.655	90	95	30	25	6,3	2,9	
110	63	IR	753 208 312	0.516	90	95	30	25	6,3	3,6	
110	75	IR	753 208 313	0.521	90	95	30	25	6,3	4,3	
110	90	IR	753 208 314	0.529	90	95	30	25	6,3	5,1	
160	63	IR	753 208 321	2.103	142	135	50	30	9,1	3,6	
160	75	IR	753 208 322	2.142	142	135	50	30	9,1	4,3	
160	90	IR	753 208 323	1.668	142	135	50	30	9,1	5,1	
160	110	IR	753 208 324	1.687	142	135	50	30	9,1	6,3	
225	90	IR	753 208 338	3.439	155	165	40	30	12,8	5,1	
225	110	IR	753 208 339	3.448	155	165	40	30	12,8	6,3	
225	160	IR	753 208 341	3.471	155	165	40	30	12,8	9,1	



Tee 90° reduced PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reducing factor = 0,6

	,	1 140101 0,0	1				
d	d1	Code	kg	L	L1	е	e1
[mm]	[mm]		_	[mm]	[mm]	[mm]	[mm]
225	63	700 640 155	25 500	363	220	20.5	5.0
225			35.500		238	20,5	5,8
225	75		35.855	375	238	20,5	6,9
225	90		36.214	390	238	20,5	8,2
225	110		36.576	410	238	20,5	10,0
225	125	700 649 159	36.941	425	238	20,5	11,4
225	140	700 649 160	37.311	440	238	20,5	12,8
225	160	700 649 161	37.684	460	238	20,5	14,6
250	75	700 649 162	38.061	475	250	22,8	6,9
250	90	700 649 163	38.441	490	250	22,8	8,2
250	110	700 649 164	38.826	510	250	22,8	10,0
250	125	700 649 165	39.214	525	250	22,8	11,4
250	140	700 649 166	39.606	540	1000	22,8	12,8
250	160	700 649 167	40.002	560	1050	22,8	14,6
250	180	700 649 168	40.402	580	275	22,8	16,4
280	75	700 649 169	40.806	475	265	25,5	6,9
280	90	700 649 170	6.650	490	265	25,5	8,2
280	110	700 649 171	41.627	510	265	25,5	10,0
280	125	700 649 172	42.043	525	265	25,5	11,4
280	140	700 649 173	42.463	540	265	25,5	12,8
280	160	700 649 174	42.888	560	265	25,5	14,6
280	180	700 649 175	43.317	580	290	25,5	16,4
280	200	700 649 176	43.750	600	290	25,5	18,2
315	90		44.187	490	283	28,7	8,2
315	110		44.629	510	283	28,7	10,0
315	125	700 649 179	45.076	525	283	28,7	11,4
315	140	700 649 180	45.526	540	283	28,7	12,8
315	160	700 649 181	7.580	560	283	28,7	14,6
315	180	700 649 182	46.441	580	308	28,7	16,4
315	200	700 649 183	46.906	600	308	28,7	
315	225	700 649 184	9.310	625	308	28,7	20,5
355	110	700 649 185	47.849	510	303	32,3	10,0
		1	1	1 0.0	1 330	, 52,0	, .

	-14	Ondo	L		1.4		-4
d [mm]	d1 [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	e1 [mm]
355	125	700 649 186	48.327	525	303	32,3	11,4
355 355	140 160	700 649 187 700 649 188	48.810 49.298	540 560	303 303	32,3	12,8
355	180	700 649 188	49.296	580	328	32,3 32,3	14,6 16,4
355	200	700 649 190	50.289	600	328	32,3	18,2
355	225	700 649 191	50.792	625	328	32,3	20,5
355	250	700 649 192	51.300	650	378	32,3	22,8
400 400	110 125	700 649 193 700 649 194	51.813 52.331	510 525	325 325	36,4 36,4	10,0 11,4
400	140	700 649 195	52.855	540	325	36,4	12,8
400	160	700 649 196	53.383	560	325	36,4	14,6
400	180	700 649 197	53.917	580	350	36,4	16,4
400 400	200 225	700 649 198 700 649 199	54.456 55.001	600 625	350 350	36,4 36,4	18,2 20,5
400	250	700 649 199	55.551	650	400	36,4	22,8
400	280	700 649 200	56.106	680	400	36,4	25,5
450	110	700 649 202	56.667	510	350	41,0	10,0
450	125	700 649 203	57.234	525	350	41,0	11,4
450	140	700 649 204	57.806	540	350	41,0	12,8
450 450	160 180	700 649 205 700 649 206	58.384 58.968	560 580	350 375	41,0 41,0	14,6 16,4
450	200	700 649 207	59.558	600	375	41,0	18,2
450	225	700 649 208	60.154	625	375	41,0	20,5
450	250	700 649 209	60.755	650	425	41,0	22,8
450	280 315	700 649 210 700 649 211	61.363	680	425 425	41,0	25,5
450 500	110	700 649 211	61.976 62.596	715 510	375	41,0 45,5	28,7 10,0
500	125	700 649 213	63.222	525	375	45,5	11,4
500	140	700 649 214	63.854	540	375	45,5	12,8
500	160	700 649 215	64.493	560	375	45,5	14,6
500	180 200	700 649 216 700 649 217	65.138	580	400 400	45,5	16,4
500 500	225	700 649 217	65.789 66.447	600 625	400	45,5 45,5	18,2 20,5
500	250	700 649 219	67.111	650	450	45,5	22,8
500	280	700 649 220	67.783	680	450	45,5	25,5
500	315	700 649 221	68.460	715	450	45,5	28,7

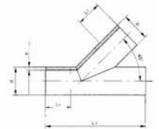
Tee 90° reduced PE100 S8/SDR17.6

- For IR, butt- and electro fusionReducing factor = 0,6

- 1100	Jucing	j lactol – 0,0					
d [mm]	d1 [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	e1 [mm]
225	63	700 649 088	35.500	363	238	12,8	3,6
225	75	700 649 089	3.280	375	238	12,8	4,3
225	90	700 649 090	36.214	390	238	12,8	5,1
225	110	700 649 091	36.576	410	238	12,8	6,3
225	125	700 649 092	36.941	425	238	12,8	7,1
225	140	700 649 093	4.320	440	238	12,8	8,0
225	160	700 649 094	4.410	460	238	12,8	9,1
250	75	700 649 095	38.061	475	250	14,2	4,3
250	90	700 649 096	38.441	490	250	14,2	5,1
250	110	700 649 097	38.826	510	250	14,2	6,3
250	125	700 649 098	39.214	525	250	14,2	7,1
250	140	700 649 099	39.606	540	250	14,2	8,0
250	160	700 649 100	40.002	560	250	14,2	9,1
250	180	700 649 101	7.490	580	275	14,2	10,2
280	75	700 649 102	6.650	475	265	15,9	4,3
280	90	700 649 103	41.214	490	265	15,9	5,1
280	110	700 649 104	7.400	510	265	15,9	6,3
280	125	700 649 105	42.043	525	265	15,9	7,1
280	140	700 649 106	7.320	540	265	15,9	8,0
280	160	700 649 107	7.580	560	265	15,9	9,1
280	180	700 649 108	43.317	580	290	15,9	10,2
280	200	700 649 109	43.750	600	290	15,9	11,4
315	90	700 649 110	44.187	490	283	17,9	5,1

	l		1.		1		
d [mm]	d1 [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	e1 [mm]
	linnin						
315	110	700 649 111	44.629	510	283	17,9	6,3
315	125	700 649 112	45.076	525	283	17,9	7,1
315	140	700 649 113	10.140	540	283	17,9	8,0
315	160	700 649 114	10.280	560	283	17,9	9,1
315	180	700 649 115	46.441	580	308	17,9	10,2
315 315	200	700 649 116 700 649 117	46.906 11.830	600	308 308	17,9 17,9	11,4 12,8
355	110	700 649 118	11.130	510	303	20,1	6,3
355 355	125 140	700 649 119 700 649 120	11.340 48.810	525 540	303	20,1	7,1
355	160	700 649 120	12.200	560	303	20,1	8,0 9,1
355	180	700 649 121	49.791	580	328	20,1	10,2
355 355	200	700 649 123	50.289	600	328	20,1	11,4
355	225 250	700 649 124 700 649 125	14.550 17.120	625 650	328 378	20,1	12,8 14,2
400	110	700 649 125	51.813	510	325	22,7	6,3
400	125	700 649 120	52.331	525	325	22,7	7,1
400	140	700 649 128	52.855	540	325	22,7	8,0
400	160	700 649 128	15.450	560	325	22,7	9,1
400	180	700 649 130	15.630	580	350	22,7	10,2
400	200	700 649 131	54.456	600	350	22,7	11,4
400	225	700 649 132	17.620	625	350	22,7	12,8
400	250	700 649 133	18.970	650	400	22,7	14,2
400	280	700 649 134	19.510	680	400	22,7	15,9
450	110	700 649 135	56.667	510	350	25,5	6,3
450	125	700 649 136	57.234	525	350	25,5	7,1
450	140	700 649 137	57.806	540	350	25,5	8,0
450	160	700 649 138	58.384	560	350	25,5	9,1
450	180	700 649 139	58.968	580	375	25,5	10,2
450	200	700 649 140	59.558	600	375	25,5	11,4
450	225	700 649 141	60.154	625	375	25,5	12,8
450	250	700 649 142	60.755	650	425	25,5	14,2
450	280	700 649 143	61.363	680	425	25,5	15,9
450	315	700 649 144	26.780	715	425	25,5	17,9
500	110	700 649 145	62.596	510	375	28,3	6,3
500	125	700 649 146	63.222	525	375	28,3	7,1
500	140	700 649 147	63.854	540	375	28,3	8,0
500	160	700 649 148	64.493	560	375	28,3	9,1
500	180	700 649 149	65.138	580	400	28,3	10,2
500	200	700 649 150	65.789	600	400	28,3	11,4
500	225	700 649 151	66.447	625	400	28,3	12,8
500	250	700 649 152	67.111	650	450	28,3	14,2
500	280	700 649 153	67.783	680	450	28,3	15,9
500	315	700 649 154	68.460	715	450	28,3	17,9

Branch 45° PE100 S5/SDR11



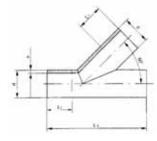
- For IR, butt- and electro fusion
 Reduction factor = 0,5

d	Code	kg	L1	L2	е
[mm]			[mm]	[mm]	[mm]
110	700 649 299	3.190	150	520	10,0
125	700 649 300	4.120	150	520	11,4
140	700 649 301	5.130	150	570	12,8
160	700 649 302	6.730	150	640	14,6
180	700 649 303	8.500	150	700	16,4
200	700 649 304	12.600	150	800	18,2
225	700 649 305	15.960	150	800	20,5
250	700 649 306	16.200	250	1000	22,8
280	700 649 307	20.950	250	1000	25,5
315	700 649 308	31.540	300	1300	28,7
355	700 649 309	41.250	300	1500	32,3
400	700 649 310	53.800	300	1500	36,4
450	700 649 311	70.400	300	1500	41,0

Branch 45° PE100 S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,5

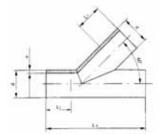
d [mm]	Code	kg	L1 [mm]	L2 [mm]	e [mm]
110	700 649 286	2.210	150	520	6.3
125	700 649 287	2.960	150	520	7,1
140	700 649 288	0.561	150	570	8,0
160	700 649 289	4.830	150	640	9,1
180	700 649 290	0.898	150	700	10,2
200	700 649 291	1.155	150	800	11,4
225	700 649 292	10.350	150	800	12,8
250	700 649 293	15.110	250	1000	14,2
280	700 649 294	3.115	250	1000	15,9
315	700 649 295	33.800	300	1300	17,9
355	700 649 296	4.851	300	1500	20,1
400	700 649 297	54.200	300	1500	22,7
450	700 649 298	46.464	300	1500	25.5



Branch 60° PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,5

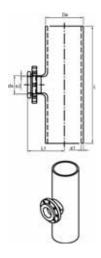
		1		1	ı
d	Code	kg	L1	L2	е
[mm]			[mm]	[mm]	[mm]
110	700 649 325	3.190	150	520	10,0
125	700 649 326	4.120	150	520	11,4
140	700 649 327	4.130	150	570	12,8
160	700 649 328	6.730	150	640	14,6
180	700 649 329	5.320	150	700	16,4
200	700 649 330	12.600	150	800	18,2
225	700 649 331	8.960	150	800	20,5
250	700 649 332	16.200	250	1000	22,8
280	700 649 333	20.950	250	1000	25,5
315	700 649 334	31.540	300	1300	28,7
355	700 649 335	41.250	300	1500	32,3
400	700 649 336	53.800	300	1500	36,4
450	700 649 337	70.400	300	1500	41,0



Branch 60° PE100 S8/SDR17.6

- For IR, butt- and electro fusion
 Reduction factor = 0,5

d [mm]	Code	kg	L1 [mm]	L2 [mm]	e [mm]
110	700 649 312	1.176	150	520	6,3
125	700 649 313	2.056	150	520	7,1
140	700 649 314	2.553	150	570	8,0
160	700 649 315	3.202	150	640	9,1
180	700 649 316	4.055	150	700	10,2
200	700 649 317	30.666	150	800	11,4
225	700 649 318	10.360	150	800	12,8
250	700 649 319	1.584	250	1000	14,2
280	700 649 320	2.046	250	1000	15,9
315	700 649 321	2.739	300	1300	17,9
355	700 649 322	3.511	300	1500	20,1
400	700 649 323	4.495	300	1500	22,7
450	700 649 324	5.914	300	1500	25,5

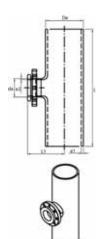


Revision Tees 90°, PE100 SDR11

Model

- Flued and butt fusion according to DVS2207
- Backing Flanges to ISO 7005, EN 1092, DIN 2501, bolt circle PN 10
- Reducing factor = 0,6

d [mm]	d1 [mm]	PN	Code	kg	L [mm]	L1 [mm]	e1 [mm]	e2 [mm]
110	110	16	700 665 656	1.000	500	236	10,0	10,0
125	125	16	700 665 657	1.000	500	248	11,4	11,4
140	140	16	700 665 658	1.000	500	265	12,7	12,7
160	110	16	700 665 659	1.000	500	278	14,6	10,0
180	110	16	700 665 660	1.000	500	350	16,4	10,0
200	140	16	700 665 661	1.000	500	350	18,2	12,7
225	140	16	700 665 662	1.000	560	400	20,5	12,7
250	160	16	700 665 663	1.000	750	450	22,7	14,6
280	225	16	700 665 664	1.000	750	350	25,4	20,5
315	225	16	700 665 665	1.000	850	400	28,6	20,5
355	225	16	700 665 666	1.000	950	450	32,2	20,5
400	225	16	700 665 667	1.000	1000	450	36,3	20,5

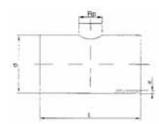


Revision Tees 90°, PE100 SDR17.6

Model:

- Flued and butt fusion according to DVS2207
- Backing Flanges to ISO 7005, EN 1092, DIN 2501, bolt circle PN 10
- Reducing factor = 0,6

d [mm]	d1 [mm]	PN	Code	kg	L [mm]	L1 [mm]	e1 [mm]	e2 [mm]
110	110	10	700 665 668	1.000	500	236	6,3	6,3
125	125	10	700 665 669	1.000	500	248	7,1	7,1
140	140	10	700 665 670	1.000	500	265	8,0	8,0
160	110	10	700 665 671	1.000	500	278	9,1	6,3
180	110	10	700 665 672	1.000	500	350	10,2	6,3
200	140	10	700 665 673	1.000	500	350	11,4	8,0
225	140	10	700 665 674	1.000	560	400	12,8	8,0
250	160	10	700 665 675	1.000	750	450	14,2	9,1
280	225	10	700 665 676	1.000	750	350	15,9	12,8
315	225	10	700 665 677	1.000	850	400	17,9	12,8
355	225	10	700 665 678	1.000	950	450	20,1	12,8
400	225	10	700 665 679	1.000	1000	450	22,7	12,8
450	315	10	700 665 680	1.000	1100	500	25,5	17,9
500	315	10	700 665 681	1.000	1200	500	28,4	17,9
560	315	10	700 665 682	1.000	1300	550	31,7	17,9
630	315	10	700 665 683	1.000	1450	550	35,7	17,9

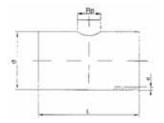


Saddle-tee PE100 S5/SDR11 Outlet with female thread Rp welded

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Thread 1" Code	Thread 11/4" Code	kg	L [mm]	e [mm]
110	700 649 238	700 649 270	0.850	260	10,0
125	700 649 239	700 649 271	1.100	260	11,4
140	700 649 240	700 649 272	1.360	260	12,8
160	700 649 241	700 649 273	1.750	260	14,6
180	700 649 242	700 649 274	2.200	360	16,4
200	700 649 243	700 649 275	2.700	360	18,2
225	700 649 244	700 649 276	4.720	360	20,5
250	700 649 245	700 649 277	5.860	360	22,8
280	700 649 246	700 649 278	7.350	360	25,5
315	700 649 247	700 649 279	9.310	360	28,7
355	700 649 248	700 649 280	13.200	460	32,3
400	700 649 249	700 649 281	19.120	460	36,4
450	700 649 250	700 649 282	24.200	460	41,0

d	Thread 1"	Thread 11/4"	kg	L	e
[mm]	Code	Code		[mm]	[mm]
560	700 649 251 700 649 252 700 649 253	700 649 284	29.850 31.250 43.250	460	45,5 51,0 57,3



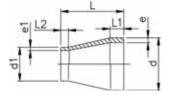
Saddle-tee PE100 S8/SDR17.6 Outlet with female thread Rp welded

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Thread 1" Code	Thread 11/4" Code	kg	L [mm]	e [mm]
110	700 649 222	700 649 254	0.560	260	6,3
125	700 649 223	700 649 255	30.666	260	7,1
140	700 649 224	700 649 256	1.162	260	8,0
160	700 649 225	700 649 257	1.584	260	9,1
180	700 649 226	700 649 258	2.046	360	10,2
200	700 649 227	700 649 259	2.739	360	11,4
225	700 649 228	700 649 260	3.511	360	12,8
250	700 649 229	700 649 261	4.495	360	14,2
280	700 649 230	700 649 262	5.914	360	15,9
315		700 649 263	10.692	360	17,9
355		700 649 264	13.827	460	20,1
400	700 649 233	700 649 265	20.816	460	22,7
450	700 649 234	700 649 266	27.225	460	25,5
500	700 649 235	700 649 267	35.508	460	28,3
560	700 649 236	700 649 268	46.464	460	31,7
630		700 649 269	0.776	500	35,7

53 90 88



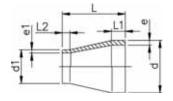


Reducer PE100 SDR11

Model:

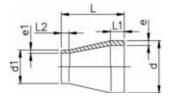
- Conventional butt-welding according to DVS 2207 part 1
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined

d	d1	FM	Code	kg	L	L1	L2	е	e1	PF
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	
1 25	20	IR	753 908 637	0.008	50	20	18	2,3	1,9	2 68 240 011
1 32	20	IR	753 908 642	0.010	50	20	18	2,9	1,9	2 68 240 011
1 32	25	IR	753 908 641	0.006	50	20	18	2,9	2,3	2 68 240 011
1 40	20	IR	753 908 648	0.017	58	20	20	3,7	1,9	2 68 240 011
1 40	25	IR	753 908 647	0.017	55	20	18	3,7	2,3	2 68 240 011
1 40	32	IR	753 908 646	0.019	55	20	18	3,7	2,9	2 68 240 011
1 50	25	IR	753 908 654	0.025	60	20	18	4,6	2,3	2 68 240 011
1 50	32	IR	753 908 653	0.026	60	20	18	4,6	2,9	2 68 240 011
1 50	40	IR	753 908 652	0.032	60	20	18	4,6	3,7	2 68 240 011
1 63	32	IR	753 908 660	0.046	65	20	18	5,8	2,9	2 68 240 011
163	40	IR	753 908 659	0.051	65	20	18	5,8	3,7	2 68 240 011
1 63	50	IR	753 908 658	0.056	65	20	18	5,8	4,6	2 68 240 011
1 75	40	IR	753 908 666	0.070	68	20	20	6,8	3,7	2 68 240 011
175	50	IR	753 908 665	0.074	65	20	18	6,8	4,6	2 68 240 011
1 75	63	IR	753 908 664	0.081	65	20	18	6,8	5,8	2 68 240 011
1 90	63	IR	753 908 671	0.126	75	21	17	8,2	5,8	2 68 240 011
1 90	75	IR	753 908 670	0.132	75	22	17	8,2	6,8	2 68 240 011
1 110	75	IR	753 908 677	0.219	90	28	17	10,0	6,8	2 68 240 011
1 110	90	IR	753 908 676	0.240	90	28	20	10,0	8,2	2 68 240 011
2 125	110	IR	753 908 680	0.350	100	32	26	11,4	10,0	2 68 240 005
2 140	110	IR	753 908 685	0.437	110	35	28	12,7	10,0	2 68 240 005
2 140	125	IR	753 908 684	0.474	110	35	28	12,7	11,4	2 68 240 005
2 160	110	IR	753 908 690	0.612	120	40	25	14,6	10,0	2 68 240 005
2 160	140	IR	753 908 688	0.674	120	40	33	14,6	12,7	2 68 240 005
1 180	90	IR	753 908 877	0.678	157	45	22	16,4	8,2	2 68 240 011
1 180	110	IR	753 908 878	0.991	157	45	28	16,4	10,0	2 68 240 011
1 180	125	IR	753 908 879	0.528	136	45	32	16,4	11,4	2 68 240 011
1 180	140	IR	753 908 880	0.963	136	45	35	16,4	12,7	2 68 240 011
shlo oo		٠.	'	•			•	'		'



d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]	PF
1 180 2 200	160 160	IR IR		1.094 1.247	136 150	45 50	40 35	16,4 18,2	14,6 14,6	2 68 240 011 2 68 240 005
1 200 2 225 2 225 1 225 2 225	180 110 160 180 200	IR IR IR IR IR		1.419 1.559 1.643 1.999 1.844	151 171 160 171 160	50 55 55 55 55	45 45 37 45 48	18,2 20,5 20,5 20,5 20,5	16,4 10,0 14,6 16,4 18,2	2 68 240 011 2 68 240 005 2 68 240 005 2 68 240 011 2 68 240 005
1 250 3 250 3 250 1 250 3 280	160 180 200 225 200	 	753 908 890 753 900 001 753 900 002 753 908 887 753 900 004	2.416 2.513 2.450 2.766 3.540	194 175 180 182 205	60 60 60 60 70	40 55 60 55 50	22,7 22,7 22,7 22,7 25,4	14,6 16,4 18,2 20,5 18,2	2 68 240 011 2 68 240 040 2 68 240 040 2 68 240 011 2 68 240 040
1 280 1 280 3 315 1 315 1 315	225 250 200 225 250	 	753 908 892 753 908 891 753 900 007 753 908 897 753 908 896	1.943 1.802 3.996 3.491 2.379	105 70 225 130 100	30 30 80 30 30	20 18 50 30 20	25,4 25,4 28,6 28,6 28,6	20,5 22,7 20,5 20,5 22,7	2 68 240 011 2 68 240 011 2 68 240 040 2 68 240 011 2 68 240 011
1 315 3 355 3 355 3 355 3 355	280 225 250 280 315	 	753 908 895 753 900 011 753 900 012 753 900 013 753 900 014	1.684 4.700 4.400 4.100 3.700	63 245 245 245 245 245	30 90 90 90 90	18 55 60 70 80	28,6 32,3 32,3 32,3 32,3	25,4 20,5 22,7 25,4 28,6	2 68 240 011 2 68 240 040 2 68 240 040 2 68 240 040 2 68 240 040
3 400 3 400 3 400 3 400 3 400	225 250 280 315 355	 	753 900 015 753 900 016 753 900 017 753 900 018 753 900 019	7.963 6.800 6.200 10.829 4.800	260 260 260 260 260	95 95 95 95 95	60 70 70 80 90	36,4 36,4 36,4 36,4 36,4	20,5 22,7 25,4 28,6 32,3	2 68 240 040 2 68 240 040 2 68 240 040 2 68 240 040 2 68 240 040
3 450 3 450 3 450 3 450 3 500	280 315 355 400 315	 	753 900 020 753 900 021 753 900 022 753 900 023 753 900 024	9.000 8.000 7.400 6.600 12.000	230 230 230 230 230 230	60 60 60 60	70 80 90 95 80	40,9 40,9 40,9 40,9 45,5	25,4 28,6 32,3 36,4 28,6	2 68 240 040 2 68 240 040 2 68 240 040 2 68 240 040 2 68 240 040
3 500 3 500 3 500 3 710 3 710 3 710	355 400 450 500 560 630	 	753 900 025 753 900 026 753 900 027 753 900 035 753 900 036 753 900 037	10.800 10.000 8.300 24.157 21.770 17.845	230 230 200 190 170 140	60 60 60 84 81 71	90 95 60 40 40 40	45,5 45,5 45,5 64,5 64,5	32,3 36,4 40,9 45,4 50,8 57,2	2 68 240 040 2 68 240 040 2 68 240 040 2 68 240 040 2 68 240 040 2 68 240 040



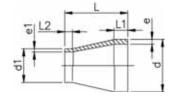


Reducer PE100 SDR17/17.6

Model:

- Conventional butt-welding according to DVS 2207 part 1
 IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined

d	d1	FM	Code	kg	L	L1	L2	е	e1
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]
50	40	IR	753 908 926	0.024	55	12	12	2,9	2,3
63	40	IR	753 908 927	0.036	65	16	12	3,6	2,3
63	50	IR	753 908 928	0.039	65	16	12	3,6	2,9
75	40	IR	753 908 904	0.041	71	19	12	4,3	2,3
75	50	IR	753 908 465	0.049	65	20	20	4,3	2,9
75	63	IR	753 908 464	0.056	65	20	20	4,3	3,6
90	63	IR	753 908 471	0.083	75	20	19	5,1	3,6
90	75	IR	753 908 470	0.092	75	20	20	5,1	4,3
110	75	IR	753 908 477	0.157	89	28	18	6,3	4,3
110	90	IR	753 908 476	0.168	90	28	20	6,3	5,1
125	110	IR	753 908 912	0.272	108	32	28	7,1	6,3
140	110	IR	753 908 917	0.330	115	35	28	8,0	6,3
140	125	IR		0.374	115	35	32	8,0	7,1
160	110	IR		0.456	124	40	28	9,1	6,3
160	140	IR	753 908 920	0.499	124	40	35	9,1	8,0
180	90	IR	753 908 975	0.897	157	45	22	10,2	5,1
180	110	IR	753 908 976	0.690	157	45	28	10,2	6,3
180	125	IR	753 908 977	0.616	136	45	32	10,2	7,1

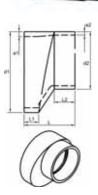


d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]	
180 180	140 160	IR IR	753 908 978 753 908 979	0.647 0.713	136 136	45 45	35 40	10,2 10,2	8,0 9,1	
200 200	160 180	IR IR	753 908 931 753 908 981	0.860 0.971	151 151	50 50	40 45	11,4 11,4	9,1 10,2	
225	110	IR	753 908 938	1.382	160	55	35	12,8	6,3	
225	160	IR	753 908 933	1.120	171	55	40	12,8	9,1	
225	180	IR	753 908 985	1.364	171	55	45	12,8	10,2	
225	200	IR	753 908 932	1.234	171	55	50	12,8	11,4	
250	160		753 908 939	1.601	194	60	40	14,2	9,1	
250	180		753 902 801	1.690	175	60	55	14,8	10,7	
250	200		753 902 802	1.899	180	60	60	14,8	11,9	
250	225		753 908 937	1.853	182	60	55	14,2	12,8	
280	200		753 902 804	2.585	205	70	50	16,6	11,9	
280 280	225 250		753 908 944 753 908 943	1.423 1.002	105 70	30 30	20 18	15,9 15,9	12,8 14,2	
315	200		753 908 943	2.907	225	80	50	18,7	11,9	
315	225		753 908 950	2.154	130	30	20	17,9	12,8	
315	250		753 908 949	1.702	100	30	20	17,9	14,2	
315	280		753 908 999	1.598	63	30	18	17,9	15,9	
355	225		753 902 811	4.700	245	90	55	21,1	13,4	
355	250		753 902 812	9.425	245	90	60	21,1	14,8	
355	280		753 902 813	4.280	245	90	70	21,1	16,6	
355	315		753 902 814	3.700	245	90	80	21,1	18,7	
400	225		753 902 815	4.600	260	95	60	23,7	13,4	
400 400	250 280		753 902 816 753 902 817	4.400 5.922	260 260	95 95	70 70	23,7 23,7	14,8 16,6	
400	315		753 902 818	3.520	260	95	80	23,7	18,7	
400	355		753 902 819	7.163	260	95	90	23,7	21,1	
450	280		753 902 820	6.340	230	60	70	26,7	16,6	
450	315		753 902 821	5.400	230	60	80	26,7	18,7	
450	355		753 902 822	5.000	230	60	90	26,7	21,1	
450	400		753 902 823	8.098	230	60	95	26,7	23,7	
500 500	315 355		753 902 824 753 902 825	8.100 8.424	230 230	60 60	80 90	29,7 29,7	18,7 21,1	
500	400		753 902 826	7.974	230	60	95	29,7	23,7	
500	450		753 902 827	5.500	200	60	60	29,7	26,7	
560	400		753 902 828	9.900	230	60	95	33,2	23,7	
560	450		753 902 829	8.600	200	60	60	33,2	26,7	
560	500		753 902 830	7.600	200	60	60	33,2	29,7	
630	400		753 902 831	15.100	230	60	95	37,4	23,7	
630 630	450		753 902 832 753 902 833	13.700	200 200	60 60	60 60	37,4	26,7	
	500			12.000				37,4	29,7	
630 710	560 500		753 902 834 753 902 835	9.800 16.750	200 190	60 84	60 40	37,4 42,1	33,2 29,7	
710	560		753 902 836	15.014	170	81	40	42,1	33,2	
710	630		753 902 837	12.215	140	71	40	42,1	37,4	
800	560		753 902 838	22.731	200	85	40	47,4	33,2	
800	630		753 902 839	20.475	180	85	40	47,4	37,4	
800	710		753 902 840	16.774	150	78	40	47,4	42,1	
900 900	630 710		753 902 841 753 902 842	32.055 27.731	220 190	96 89	40 40	53,3 53,3	37,4	
900	800		753 902 842 753 902 843	22.854	160	85	40	53,3	42,1 47,4	
1000	710		753 902 844	40.412	220	91	40	59,3	42,1	
1000	800		753 902 845	33.910	180	86	40	59,3	47,4	
1000	900		753 902 846	25.824	140	75	40	59,3	53,3	

Reducing Bushes eccentric, PE100 SDR11

Model:

- Conventional butt fusion according to DVS2207
- Machined



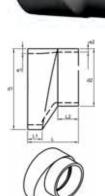
d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]	
63 75 75 90	50 50 63 63 75	16 16 16 16	700 647 601 700 647 602 700 647 603	1.000 1.000 1.000 1.000 1.000	120 120 120 120 140 140	35 40 40 50 50	35 35 35 35 50	5,8 6,8 6,8 8,2 8,2	4,6 4,6 5,8 5,8 6,8	
110 110 125 125 140	75 90 90 110 90	16 16 16 16 16	700 647 605 700 647 606 700 647 607 700 647 608	1.000 1.000 1.000 1.000 1.000	140 140 140 140 140	50 50 50 50 50	50 50 50 50 50	10 10 11,4 11,4 12,7	6,8 8,2 5,1 10 8,2	
140 160 160 160 160	110 90 110 125 140	16 16 16 16 16	700 647 611 700 647 612 700 647 613	1.000 1.000 1.000 1.000 1.000	140 140 120 110 90	50 50 40 40 40	50 54 45 44 33	12,7 14,6 14,6 14,6 14,6	10 8,2 10 11,4 12,7	
180 180 180 200 200	125 140 160 140 160	16 16 16 16	700 647 616 700 647 617 700 647 618 700 647 619	1.000 1.000 1.000 1.000 1.000	130 110 90 140 120	40 40 40 40 40	52 41 33 50 41	16,4 16,4 16,4 18,2 18,2	11,4 12,7 16,4 12,7 14,6	
200 225 225 225 250	180 160 180 200 180	16 16 16 16 16	700 647 621	1.000 1.000 1.000 1.000 1.000	100 140 120 100 150	40 40 40 40 40	43 57 48 40 54	18,2 20,5 20,5 20,5 22,7	16,4 14,6 16,4 18,2 16,4	
250 250 280 280 280	200 225 200 225 250	16 16 16 16 16	700 647 627 700 647 628	1.000 1.000 1.000 1.000 1.000	130 110 160 130 110	40 40 40 40 40	55 40 58 52 47	22,7 22,7 25,4 25,4 25,4	18,2 20,5 18,2 20,5 22,7	
315 315 315 355 355	225 250 280 250 250	16 16 16 16 16	700 647 632	1.000 1.000 1.000 1.000 1.000	160 140 120 180 150	40 40 40 40 40	62 57 54 74 61	28,6 28,6 28,6 32,2 32,2	20,5 22,7 25,4 22,7 25,4	
355 400 400 400 450	315 280 315 355 355	16 16 16 16 16	700 647 636 700 647 637 700 647 638	1.000 1.000 1.000 1.000 1.000	120 200 170 130 210	40 40 40 40 40	51 85 75 58 86	32,2 36,3 36,3 36,3 40,9	28,6 25,4 28,6 32,2 28,6	
450 450 500 500 500	355 400 400 355 400	16 16 16 16 16	700 647 641 700 647 642 700 647 643 700 647 644	1.000 1.000 1.000 1.000 1.000	180 140 260 220 190	40 40 40 40 40	79 65 107 91 86	40,9 40,9 45,4 45,4 45,4	32,2 36,3 28,6 32,2 36,3	
500 560 560 630 630	450 450 500 500 560	16 16 16 16 16	700 647 646 700 647 647 700 647 648	1.000 1.000 1.000 1.000 1.000	140 200 150 220 170	40 40 40 40 40	65 91 70 99 84	45,4 50,8 50,8 57,2 57,2	40,9 40,9 45,4 45,4 50,8	

Reducing Bushes eccentric, PE100 SDR17.6

Model:







IVICI		4				,				
d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]	
63 75 75 90	50 50 63 63	10 10 10 10	700 647 651 700 647 652	1.000 1.000 1.000 1.000	120 120 120 140	35 40 40 50	35 35 35 50	3,6 4,3 4,3 5,1	2,9 2,9 3,6 3,6	
90 110 125 125 140 140 160 160 160	75 90 90 110 90 110 90 110 125 140	10 10 10 10 10 10 10 10 10	700 647 655 700 647 656 700 647 657 700 647 658 700 647 669 700 647 661 700 647 662 700 647 663 700 647 664	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	140 140 140 140 140 140 140 120 110 90	50 50 50 50 50 50 50 40 40 40	50 50 50 50 50 50 50 54 45 44 33	5,1 6,3 6,3 7,1 7,1 8,0 8,0 9,5 9,5 9,5	4,3 4,3 5,1 5,1 6,3 5,1 6,3 5,4 6,6 7,4 8,3	
180 180 180 200 200	125 140 160 140 160	10 10 10 10 10	700 647 666 700 647 667 700 647 668	1.000 1.000 1.000 1.000 1.000	130 110 90 140 120	40 40 40 40 40	52 41 33 50 41	10,7 10,7 10,7 11,9 11,9	7,4 8,3 9,5 8,3 9,5	
200 225 225 225 250	180 160 180 200 180	10 10 10 10 10	700 647 671 700 647 672 700 647 673	1.000 1.000 1.000 1.000 1.000	100 140 120 100 150	40 40 40 40 40	43 57 48 40 54	11,9 13,4 13,4 13,4 14,8	10,7 9,5 10,7 11,9 10,7	
250 250 280 280 280	200 225 200 225 250	10 10 10 10 10	700 647 676 700 647 677 700 647 678	1.000 1.000 1.000 1.000 1.000	130 110 160 130 110	40 40 40 40 40	55 40 58 52 47	14,8 14,8 16,6 16,6 16,6	11,9 13,4 11,9 13,4 14,8	
315 315 315 355 355	225 250 280 250 280	10 10 10 10 10	700 647 681 700 647 682 700 647 683	1.000 1.000 1.000 1.000 1.000	160 140 120 180 150	40 40 40 40 40	62 57 54 74 61	18,7 18,7 18,7 21,1 21,1	13,4 14,8 16,6 14,8 16,6	
355 400 400 400 450	315 280 315 355 315	10 10 10 10 10	700 647 686 700 647 687 700 647 688	1.000 1.000 1.000 1.000 1.000	120 200 170 130 210	40 40 40 40 40	51 85 75 58 86	21,1 23,7 23,7 23,7 26,7	18,7 16,6 18,7 21,1 18,7	
450 450 500 500 500	355 400 315 355 400	10 10 10 10 10	700 647 691 700 647 692 700 647 693	1.000 1.000 1.000 1.000 1.000	180 140 260 220 190	40 40 40 40 40	79 65 107 91 86	26,7 26,7 29,7 29,7 29,7	21,1 23,7 18,7 21,1 23,7	
500 560 560 630 630	450 450 500 500 560	10 10 10 10 10	700 647 696 700 647 697 700 647 698	1.000 1.000 1.000 1.000 1.000	140 200 150 220 170	40 40 40 40 40	65 91 70 99 84	29,7 33,2 33,2 37,4 37,4	26,7 26,7 29,7 29,7 33,2	





End Cap PE100, SDR11

Model:

- Conventional butt fusion according to DVS2207
- Machined

d	PN	Code	L	L1	е	r
[mm]			[mm]	[mm]	[mm]	[mm]
63	16	700 665 184	30	15	5,8	5
75	16	700 665 185	30	15	6,8	5
90	16	700 665 186	30	15	8,2	5
110	16	700 665 187	30	15	10,0	5
125	16	700 665 188	35	15	11,4	5
140	16	700 665 189	40	15	12,7	5
160	16	700 665 190	40	15	14,6	6
180	16	700 665 191	45	15	16,4	6
200	16	700 665 192	50	15	18,2	6
225	16	700 665 193	50	15	20,5	8
250	16	700 665 194	55	15	22,7	8
280	16	700 665 195	60	15	25,4	8
315	16	700 665 196	65	15	28,6	8
355	16	700 665 197	70	15	32,2	8
400	16	700 665 198	75	15	36,3	10
450	16	700 665 199	80	15	40,9	10
500	16	700 665 200	90	14	45,4	10
560	16	700 665 201	100	14	50,8	10
630	16	700 665 202	110	15	57,2	10



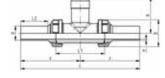


End Cap PE100, SDR17.6

- Conventional butt fusion according to DVS2207
- Machined

d [mm]	PN	Code	L [mm]	L1 [mm]	e [mm]	r [mm]	
			[]	[]	£	[g	
63	10	700 665 260	30	15	3,6	5	
75	10	700 665 261	30	15	4,3	5	
90	10	700 665 262	30	15	5,1	5	
110	10	700 665 263	30	15	6,3	5	
125	10	700 665 264	30	15	7,1	5	
140	10	700 665 265	30	15	8,0	5	
160	10	700 665 266	35	15	9,1	6	
180	10	700 665 267	40	15	10,2	6	
200	10	700 665 268	40	15	11,4	6	
225	10	700 665 269	45	15	12,8	8	
250	10	700 665 270	45	15	14,2	8	
280	10	700 665 271	45	15	15,9	8	
315	10	700 665 272	55	15	17,9	8	
355	10	700 665 273	55	15	20,1	8	
400	10	700 665 274	60	15	22,7	10	
450	10	700 665 275	70	15	26,7	10	
500	10	700 665 276	75	14	29,7	10	
560	10	700 665 277	80	14	33,2	10	
630	10	700 665 278	90	15	37,4	10	





Installation fitting type 318 PE100 SDR 11 For butt fusion systems metric

Model:

- · Body and union nut PP-H
- Threaded outlet 1 1/4" NPSM
- · Union end with butt fusion spigot PE100

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

Attention:

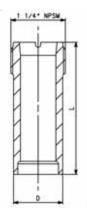
· sensor length depends on installation fitting

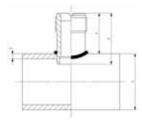
d [mm]	DN [mm]	PN	FM	EPDM Code	FPM Code	kg
20	15	10	IR	753 318 006	753 318 036	0.136
25	20	10	IR	753 318 007	753 318 037	0.190
32	25	10	IR	753 318 008	753 318 038	0.250
40	32	10	IR	753 318 009	753 318 039	0.356
50	40	10	IR	753 318 010	753 318 040	0.510
63	50	10	IR	753 318 011	753 318 041	0.800

d	D	z	L	L1	L2	Н	е	Sensor Type
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
20	48	112	224	90	52	76	1.9	flow X0, pH XX
25	58	121	242	100	53	78	2.3	flow X0, pH XX
32	65	128	256	110	55	81	2.9	flow X0, pH XX
40	79	136	272	110	60	85	3.7	flow X0, pH XX
50	91	147	294	120	66	89	4.6	flow X0, pH XX
63	105	158	316	130	70	95	5.8	flow X0, pH XX









Installation fitting type 314 PE100

Model:

- Material: PE100
- Threaded outlet 1 1/4" NPSM
- for conventional hot gas back welding according to DVS 2207 part 3

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

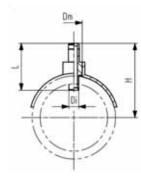
Attention:

- · only for pressureless or low pressure application
- · pressure rate depends on quality of hot gas back welding
- please consult the instruction manual
- Installation by trained and certified welders only
- · sensor length depends on installation fitting

d [mm]	DN	PN* [bar]	Code	kg	D [mm]	L [mm]	Sensor Type
75 - 180 200 - 355 400 - 630	65 - 150 200 - 350 350 - 600		753 314 001	0.042 0.057 0.934		68 102 178	flow X0, pH XX flow X1 flow X2

21 31 00





Installation fitting type 312 PE electrofusion system

Model:

- Material: PolyethyleneThreaded outlet 1 ¼" NPSM

Range of use:

- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
 compatible signet pH/ORP sensors: type 2724, 2725, 2726

· sensor length depends on installation fitting

d [mm]	Code	kg	PN [bar]	H [mm]	Di [mm]	L [mm]	Dm [mm]	Sensor Type	
75	753 312 012	1.000	16	126.10	37.8	101.6	63	flow x1	
90	753 312 013	1.000	16	132.80	37.8	101.6	63	flow x1	
110	753 312 014	1.000	16	142.00	37.8	101.6	63	flow x1	
125	753 312 015	1.000	16	141.60	37.8	101.6	63	flow x1	
140	753 312 016	1.000	16	145.90	37.8	101.6	63	flow x1	
160	753 312 017	1.000	16	153.00	37.8	101.6	63	flow x1	
180	753 312 018	1.000	16	235.20	37.8	177.8	63	flow x2	
200	753 312 019	1.000	16	244.00	37.8	177.8	63	flow x2	
225	753 312 020	1.000	16	250.30	37.8	177.8	63	flow x2	
250	753 312 021	1.000	16	257.80	37.8	177.8	63	flow x2	
280	753 312 022	1.000	16	267.80	37.8	177.8	63	flow x2	
315	753 312 023	1.000	16	279.00	37.8	177.8	63	flow x2	
355	753 312 024	1.000	16	344.64	37.8	177.8	63	flow x2	
400	753 312 025	1.000	16	359.20	37.8	177.8	63	flow x2	

Adaptor Fittings for Butt Fusion

Adaptor socket PE100 SDR11 metric Rp



53 91 02

- With butt fusion spigot SDR11 and BSP parallel female thread Rp, reinforced · Reinforcing ring stainless (A2)
- · Connection to plastic or metal threads · Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d	Rp	DN	FM	Code	kg	L	L1	s	е
[mm]	[inch]	[mm]				[mm]	[mm]	[mm]	[mm]
20	1/2	15	IR	753 910 266	0.018	48	23	32	1,9
25	3/4	20	IR	753 910 267	0.022	50	23	36	2,3
32	1	25	IR	753 910 268	0.038	54	23	46	2,9
40	1 1/4	32	IR	753 910 269	0.068	56	23	55	3,7
50	1 ½	40	IR	753 910 270	0.083	60	23	65	4,6
63	2	50	IR	753 910 271	0.134	62	23	80	5,8

53 91 42

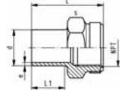
Adaptor socket PE100 SDR11 metric NPT



- · Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- NPT tapered female thread to ASTM F 1498
- Reinforcing ring stainless (A2)
- · Connection to plastic or metal threads
- · Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d	NPT	FM	Code	kg	L	L1	s	е
[mm]	[inch]				[mm]	[mm]	[mm]	[mm]
20	1/2	IR	753 914 266	0.018	48	23	32	1.9
25	3/4	IR	753 914 267	0.022	50	23	36	2.3
32	1	IR	753 914 268	0.038	54	23	46	2.9
40	1 1/4	IR	753 914 269	0.058	56	23	55	3.7
50	1 ½	IR	753 914 270	0.083	60	23	65	4.6
63	2	IR	753 914 271	0.134	62	23	80	5.8





53 91 05

Adaptor nipple PE100 SDR11 metric R



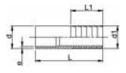


- · With butt fusion spigot SDR11 and tapered male thread
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d	R	DN	FM	Code	kg	L	L1	s	е
[mm]	[inch]	[mm]				[mm]	[mm]	[mm]	[mm]
20	1/2	15	IR	753 910 556	0.013	51	23	32	1,9
25	3/4	20	IR	753 910 557	0.026	52	23	36	2,3
32	1	25	IR	753 910 558	0.028	55	23	46	3,0
40	1 1/4	32	IR	753 910 559	0.043	58	23	55	3,7
50	1 ½	40	IR	753 910 560	0.063	60	23	65	4,6
63	2	50	IR	753 910 561	0.104	67	26	80	5,8

53 96 86





Hose connector PE100 SDR11 metric

Model:

• With butt fusion spigot SDR11 and parallel hose connection

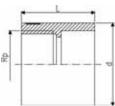
d	d1	DN	FM	Code	kg	L	L1	е
[mm]	[mm]	[mm]				[mm]	[mm]	[mm]
20	20	15	IR	753 968 606	0.007	64	27	1,9
25	25	20	IR	753 968 607	0.015	75	36	2,3
32	32	25	IR	753 968 608	0.023	82	36	2,9
40	40	32	IR	753 968 609	0.034	84	42	3,7
50	50	40	IR	753 968 610	0.057	90	48	4,6
63	60	50	IR	753 968 611	0.095	100	50	5,8

73 28 19







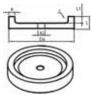


PE adaptor Female thread

- PE 80 SDR 11 (ISO S5)
- 5 bar Gas / 12,5 bar Water
- · Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF Plus Branch Saddle (53 131 000) d63 400mm, pipe SDR 11, d75 -400mm, pipe SDR 17
- Parallel female thread
- *PE 100 SDR 11 (ISO S5)

		`		
d [mm]	Rp [inch]	Code	kg	L [mm]
63 63		173 281 925 193 281 617	0.088 0.060	54 68





End Cap PE100, SDR11 with female thread

- Conventional butt fusion according to DVS2207
- Machined
- metric Rp
- · other thread-dimensions and NPT-thread available on request

d	Rp	PN	N Code	L	L1	е	r
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]
63	1/2	16	6 700 665 20	30	15	5,8	5
75	1/2	16	6 700 665 2 0	30	15	6,8	5
90	1/2	16	6 700 665 2 0	30	15	8,2	5
110	1/2	16	6 700 665 2 0	30	15	10	5
125	1/2	16	6 700 665 2 0	35	15	11,4	5
140	1/2	16	6 700 665 2 0	18 40	15	12,7	5
160	1/2	16	6 700 665 2 0	9 40	15	14,6	6
180	1/2	16	6 700 665 2	10 45	15	16,4	6
200	1/2	16	6 700 665 2	I 1 50	15	18,2	6
225	1/2	16	6 700 665 2	1 2 50	15	20,5	8
250	1/2	16	6 700 665 2	I 3 55	15	22,7	8
280	1/2	16	6 700 665 2	l 4 60	15	25,4	8
315	1/2	16	6 700 665 2	l 5 65	15	28,6	8
355	1/2	16	6 700 665 2	16 70	15	32,2	8
400	1/2	16	6 700 665 2	1 7 75	15	36,3	10
450	1/2	16	6 700 665 2	80	15	40,9	10



d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	e [mm]	r [mm]
500 560 630	1/2 1/2 1/2	16	700 665 219 700 665 220 700 665 221	90 100 110	14 14 15	45,4 50,8 57,2	10 10 10
_							





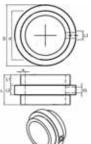
End Cap PE100, SDR17.6 with female thread

Model:

- Conventional butt fusion according to DVS2207
- Machined
- metric Rp
- other thread-dimensions and NPT-thread available on request

d	Rp	PN	Code	L	L1	е	r
[mm]	[inch]			[mm]	[mm]	[mm]	[mm]
63	1/2	10	700 665 279	30	15	3,6	5
75	1/2	10	700 665 280	30	15	4,3	5
90	1/2	10	700 665 281	30	15	5,1	5
110	1/2	10	700 665 282	30	15	6,3	5
125	1/2	10	700 665 283	30	15	7,1	5
140	1/2	10	700 665 284	30	15	8,0	5
160	1/2	10	700 665 285	35	15	9,1	6
180	1/2	10	700 665 286	40	15	10,2	6
200	1/2	10	700 665 287	40	15	11,4	6
225	1/2	10	700 665 288	45	15	12,8	8
250	1/2	10	700 665 289	45	15	14,2	8
280	1/2	10	700 665 290	45	15	15,9	8
315	1/2	10	700 665 291	55	15	17,9	8
355	1/2	10	700 665 292	55	15	20,1	8
400	1/2	10	700 665 293	60	15	22,7	10
450	1/2	10	700 665 294	70	15	26,7	10
500	1/2	10	700 665 295	75	14	29,7	10
560	1/2	10	700 665 296	80	14	33,2	10
630	1/2	10	700 665 297	90	15	37,2	10



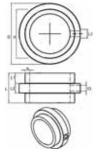


Instrument Installation Fittings PE, SDR11 with female thread

- Conventional butt fusion according to DVS2207
- Machined
- metric Rp
- other thread-dimensions and NPT-thread available on request

d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	L2 [mm]	D [mm]	e [mm]
63	1/2	16	700 665 425	90	30	30	90	5,8
75	1/2	16	700 665 426	90	30	30	110	6,8
90	1/2	16	700 665 427	100	30	40	125	8,2
110	1/2	16	700 665 428	100	30	40	140	10
125	1/2	16	700 665 429	110	35	40	160	11,4
140	1/2	16	700 665 430	125	40	45	180	12,7
160	1/2	16	700 665 431	125	40	45	200	14,6
180	1/2	16	700 665 432	135	45	45	225	16,4
200	1/2	16	700 665 433	135	45	45	250	18,2
225	1/2	16	700 665 434	135	45	45	280	20,5
250	1/2	16	700 665 435	145	50	45	280	22,7
280	1/2	16	700 665 436	155	50	55	315	25,4
315	1/2	16	700 665 437	155	50	55	355	28,6
355	1/2	16	700 665 438	115	30	55	400	32,2
400	1/2	16	700 665 439	130	30	70	450	36,3





Instrument Installation Fittings PE, SDR17.6 with female thread

- Conventional butt fusion according to DVS2207
- Machined
- metric Rp
 other thread-dimensions and NPT-thread available on request

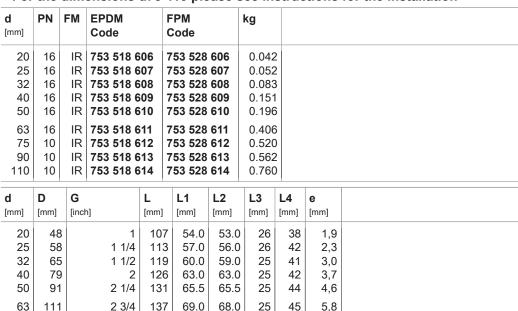
d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	L2 [mm]	D [mm]	e [mm]	
				-					
63	1/2	10	700 665 462	90	30	30	90	3,6	
75	1/2	10	700 665 463	90	30	30	110	4,3	
90	1/2	10	700 665 464	100	30	40	125	5,1	
110	1/2	10	700 665 465	100	30	40	140	6,3	
125	1/2	10	700 665 466	110	35	40	160	7,1	
140	1/2	10	700 665 467	125	40	45	180	8,0	
		_		_	_				
160	1/2	10	700 665 468	125	40	45	200	9,1	
180	1/2	10	700 665 469	135	45	45	225	10,2	
200	1/2	10	700 665 470	135	45	45	250	11,4	
225	1/2	10	700 665 471	135	45	45	280	12,8	
250	1/2	10	700 665 472	145	50	45	280	14,2	
280	1/2	10	700 665 473	155			315	15,9	
		_		1	50	55			
315	1/2	10	700 665 474	155	50	55	355	17,9	
355	1/2	10	700 665 475	115	30	55	400	20,1	
400	1/2	10	700 665 476	130	30	70	450	22,7	

Unions for butt fusion

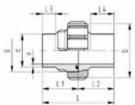
Union PE100 S5/SDR11

laboM

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- Gasket: O-Ring EPDM No. 48 41 00
- For the dimensions d75-110 please see instructions for the installation







Union PE100 S8.3/SDR17.6

S107,5x3,6

S107,5x3,6

S127,5x3,6

Model

75

90

110

135

135

158

Conventional butt-welding according to DVS 2207 part 1

132

131

131

66.0

65.5

65.5

- IR = Infrared- (IR Plus®) compatible.
- Gasket: O-Ring EPDM No. 48 41 00
- For the dimensions d75-110 please see instructions for the installation

65.5

65.5

65.5

24

24

25

34

45

40

6,8

8,2

10,0

d [mm]	PN	FM	EPDM Code		PM Code		kg
75 90 110	10 10 10	IR	753 518 4 753 518 4 753 518 4	13 7	753 528 753 528 753 528	413	0.476 0.483 0.663
d [mm]	D [mm]	G [inc	h]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
75 90 110	135 135 158	5 8	\$107,5x3,6 \$107,5x3,6 \$127,5x3,6		65.5	66.0 65.5 65.5	5,1

Instructions for the installation of unions in PP, PE d 75, d 90 and d 110

The newest generation of plastic unions in the above materials and dimensions has been fitted with a state-of-the-art, plastics-oriented buttress thread. You therefore have a product in which the nominal pressure and the safety reserve have been dramatically increased. Also new are the butt fusion versions. In this connection, there are a few points which you must be aware of.

Caution



① The threads of the union nut and bush have been reworked for PP, PVDF and PE! When using individual parts, please check prior to installation if the threads of the union bush and the union nut coincide.

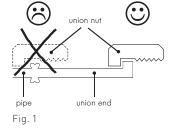
Union bush with trapezoid thread on union nut with trapezoid thread or

Union bush with buttress thread on union nut with buttress thread

Tip

To make installation of the union easier, wet the union nut.

- ② For the dimensions d 90 and d 110 we advise fusing the complete union, if possible (or slide the union nut to the collar of the union end) because after fusion the union nut cannot be slid over the fusion bead. (Fig. 1)
- ③ For design reasons, it is theoretically possible to combine different nominal diameters of union ends and nuts. To make sure combinations are technically correct, you can find the code numbers of the single parts and spare parts for each union in the Tables 1-3.



butt fusion union nut d 75 union end d 90 insufficient butt fusion seed union bush d 75

Fig. 2

Caution

Only use union bushes and union ends with the same nominal diameter!

A butt fusion union bush d75 may not be combined with a butt fusion union end d90 to form a reducer because this can cause leakage, as illustrated to the left. (Fig. 2)

Markings on the union nuts SF/MS = socket fusion, BF/ST = butt fusion

SF/MS 75 specified for socket fusion d 75

BF/ST 75-90 specified for butt fusion d 75-75 and d 90-90

SF/MS 90 specified socket fusion d 90 BF/ST 110 specified butt fusion d 110

110 specified for socket fusion d 110

Tip

We recommend changing materials only for the union end for installation reasons.

Selection tables for single parts and spare parts



Table 1
Single parts for **PP-H** unions d75, d90 and d110

J				,			
d	BF/ST	SF/MS	SDR	PN	Code union end	Code union bush	Code union nut*
75	==		11	10	727 608 512	727 648 512	727 690 422
	==		17.6	6	727 608 412	727 648 412	727 690 422
		=	_	10	727 600 112	727 640 172	727 690 422
90	==		11	10	727 608 513	727 648 513	727 690 422
	==		17.6	6	727 608 413	727 648 413	727 690 422
		==	_	10	727 600 113	727 640 173	727 690 423
110	==		11	10	727 608 514	727 648 514	727 690 423
	===		17.6	6	727 608 414	727 648 414	727 690 423
		===	_	10	727 600 114	727 640 174	727 690 424

Table 2 Single parts for $\textbf{PE100}\$ unions d75, d90 and d110

9						
d	BF/ST	SF/MS SDR	PN	Code union end	Code union bush	Code union nut*
75	==	11	10	753 608 612	753 648 612	727 690 442
	==	17.6	10	753 608 412	753 648 412	727 690 442
90	==	11	10	753 608 613	753 648 613	727 690 442
	==	17.6	10	753 608 413	753 648 413	727 690 442
110	==	11	10	753 608 614	753 648 614	727 690 443
	==	17.6	10	753 608 414	753 648 414	727 690 443

Table 3 O-Rings for PP-H, PE 100

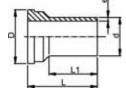
	5				
d	BF/ST	SF/MS SDR	PN	Code O-Ring EPDM ¹	Code O-Ring FPM ¹
75	==		16	748 410 013	749 410 013
		==	16	748 410 014	749 410 014
90	==		16	748 410 014	749 410 014
		==	16	748 410 015	749 410 015
110	==		16	748 410 015	749 410 015
		==	16	748 410 016	749 410 016

^{*} Union nuts overlap several dimensions

¹ Flange adaptor O-rings, one size smaller in nominal dimensions, are used for the d75–110 butt-fusion unions

53 60 86



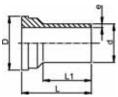


Union Ends, PE100 SDR11

Model

- · Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- For the dimensions d75-110 please see instructions for the installation

			·					
d	PN	FM	Code	kg	D	L	L1	е
[mm]					[mm]	[mm]	[mm]	[mm]
20	16	IR	753 508 606	0.011	30	54	38	1,9
25	16	IR	753 508 607	0.018	39	57	42	2,3
32	16	IR	753 508 608	0.027	45	60	41	2,9
40	16	IR	753 508 609	0.044	57	63	42	3,7
50	16	IR	753 508 610	0.061	63	66	44	4,6
63	16	IR	753 508 611	0.100	78	69	45	5,8
75	10	IR	753 608 612	0.147	101	66	34	6,8
90	10	IR	753 608 613	0.156	101	66	45	8,2
110	10	IR	753 608 614	0.226	121	66	40	10,0



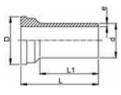
Union Ends, PE100 SDR17,6

Model:

- · Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- For the dimensions d75-110 please see instructions for the installation

d [mm]	PN	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	e [mm]
75	10	IR	753 608 412	0.124	101	66	34	4,3
90	10	IR	753 608 413	0.131	101	66	45	5,1
110	10	IR	753 608 414	0.178	121	66	40	6,3





Union Ends long, PE100

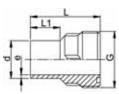
Model:

- For butt-, IR Plus® and electrofusion
- · Suitable for unions, tank connectors and diaphragm valves Type 514

d [mm]	PN	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	e [mm]
						. ,		
20	16	IR	753 508 616	0.006	30	67	52	1,9
25	16	IR	753 508 617	0.019	39	71	53	2,3
32	16	IR	753 508 618	0.027	45	73	55	2,9
40	16	IR	753 508 619	0.048	57	81	60	3,7
50	16	IR	753 508 620	0.069	63	87	66	4,6
63	16	IR	753 508 621	0.120	78	93	70	5,8

53 64 86



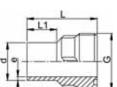


Union Bushes, PE100 SDR11

- · Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- Gasket: O-Ring EPDM No. 48 41 00
- For the dimensions d75-110 please see instructions for the installation

d [mm]	PN	FM	Code	kg	G [inch]	L [mm]	L1 [mm]	e [mm]
20	16	IR	753 648 606	0.016	1	54	26	1,9
25	16	IR	753 648 607	0.025	1 1/4	57	26	2,3
32	16	IR	753 648 608	0.035	1 1/2	60	25	2,9
40	16	IR	753 648 609	0.057	2	63	25	3,7
50	16	IR	753 648 610	0.077	2 1/4	66	25	4,6
63	16	IR	753 648 611	0.128	2 3/4	69	25	5,8
75	10	IR	753 648 612	0.181	S107,5x3,6	66	24	6,8
90	10	IR	753 648 613	0.192	S107,5x3,6	66	24	8,2
110	10	IR	753 648 614	0.272	S127,5x3,6	66	25	10





Union Bushes, PE100 SDR17,6

Model:

- · Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- For the dimensions d75-110 please see instructions for the installation

d [mm]	PN	FM	Code	kg	G [inch]	L [mm]	L1 [mm]	e [mm]
75	10	IR	753 648 412	0.158	S107.5x3.6	66	24	4,3
90	10	IR	753 648 413	0.161	S107.5x3.6	66	24	5,1
110	10	IR	753 648 414	0.216	S127.5x3.6	66	25	6,3

33 69 04





Union Nuts, PE-GF

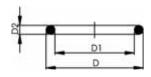
Model:

- · PE glass-fibre reinforced
- For the dimensions d75-110 please see instructions for the installation
- * PP glass fibre reinforced

d-d	Code	kg	G	D	L
[mm]			[inch]	[mm]	[mm]
20 -	733 690 406	0.022	1	48	24
25 -	733 690 407	0.036	1 1/4	58	26
32 -	733 690 408	0.042	1 1/2	65	28
40 -	733 690 409	0.068	2	79	31
50 -	733 690 410	0.097	2 1/4	91	35
63 -	733 690 411	0.164	2 3/4	111	39
* 75 - 90	727 690 442	0.202	S107,5x3,6	135	40
* 90 - 110	727 690 443	0.277	S127,5x3,6	158	43

EPDM 48 41 00 FPM 49 41 00





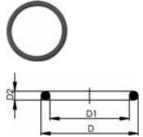
O-Ring Gaskets

Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C
- * for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

d	DN	EPDM	FPM	kg	D	D1	D2	
[mm]	[mm]	Code	Code		[mm]	[mm]	[mm]	
20	15	748 410 006	749 410 006	0.001	27	20	3.53	
25	20	748 410 007	749 410 007	0.002	35	28	3.53	
32	25	748 410 008	749 410 008	0.002	40	33	3.53	
40	32	748 410 009	749 410 009	0.007	51	41	5.34	
50	40	748 410 010	749 410 010	0.060	58	47	5.34	
63	50	748 410 011	749 410 011	0.003	70	60	5.34	

O-Ring Gasket, FPM black



- for unions PP-H, PE100 and PVDF butt fusion
- d75 748 410 013 (EPDM), 749 410 013 (FPM)
 d90 748 410 014 (EPDM), 749 410 014 (FPM)
 d110 748 410 015 (EPDM), 749 410 015 (FPM)

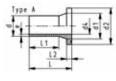
EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	D2 [mm]	
748 410 013	749 410 013	0.011	80			
748 410 014	749 410 014	0.012	93			
748 410 015	749 410 015	0.015	112			

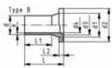
Flange Adaptors, Flanges and Gaskets for Butt Fusion

538000









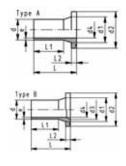
Flange adaptor PE100 S5/SDR11 Combined jointing face: flat and serrated

Model:

- Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/568
 Above use PE100 Adaptor for butterfly valves SDR11 (d355-d800)
- Up to d280, suitable for butterfly valve type 037/038/039
 Above use PE100 Adaptor for butterfly valves SDR11 (d315-d800)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 10 bar Gas / 16 bar Water
- Type A without chamfer, Type B with chamfer

d [mm]	DN [mm]	FM	Code	kg
20	15	IR	753 800 006	0.022
25	20	IR	753 800 007	0.022
32	25	IR	753 800 008	0.059
40	32	IR	753 800 009	0.081
50	40	IR	753 800 010	0.129
63	50	IR	753 800 011	0.187
75	65	IR	753 800 012	0.314
90	80	IR	753 800 013	0.471
110	100	IR	753 800 014	0.706
125	100	IR	753 800 015	0.883
140	125	IR	753 800 016	1.348
160	150	IR	753 800 017	1.718
180	150	IR	753 800 018	2.035
200	200	IR	753 800 019	2.899
225	200	IR	753 800 020	3.208
250	250		753 800 021	4.878
280	250		753 800 022	4.925
315	300		753 800 023	7.135
355	350		753 800 024	10.400
400	400		753 800 025	14.600
450	500		753 800 026	24.800
500	500		753 800 027	27.400
560	600		753 800 028	40.000
630	600		753 800 029	42.300
710	700		753 800 030	56.379
800	800		753 800 033	72.636

d	DN	d1	d2	d3	d4	L	L1	L2	е	PF	Туре
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
20	15	27	45		16	85	41	7	1.9	2 51 301 001	Α
25	20	33	58		20	85	41	9	2.3	2 51 301 001	Α
32	25	40	68		26	85	44	10	3.0	2 51 301 001	Α
40	32	50	78		32	85	49	11	3.7	2 51 301 001	Α
50	40	61	88		40	105	55	12	4.6	2 51 301 001	Α
63	50	75	102		51	98	69	14	5.8	2 51 301 001	Α
75	65	89	122	66	61	125	89	16	6.8	2 51 301 001	В
90	80	105	138	78	73	140	103	17	8.2	2 51 301 001	В
110	100	125	158	100	90	160	114	18	10.0	2 51 301 001	В
125	100	132	158	114	102	170	125	25	11.4	2 51 301 001	В
140	125	155	188	127	114	200	147	25	12.7	2 51 301 001	В
160	150	175	212	151	130	200	147	25	14.6	2 51 301 001	В
180	150	180	212	158	147	200	170	30	16.4	2 51 301 001	В
200	200	232	268	203	163	200	128	32	18.2	2 51 301 001	В
225	200	235	268	210	184	200	138	32	20.5	2 51 301 001	В
250	250	285	320	245	204	219	138	35	22.7	2 51 301 002	В
280	250	291	320	265	229	231	144	35	25.4	2 51 301 002	В

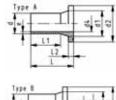


d	DN	d1	d2	d3	d4	L	L1	L2	е	PF	Туре
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
315	300	335	370	300	257	239	158	35	28.6	2 51 301 002	В
355	350	373	430	340	290	260	176	40	32.3	2 51 301 008	В
400	400	427	482	385	327	290	186	46	36.3	2 51 301 008	В
450	500	514	585	400	368	333	195	60	40.9	2 51 301 008	В
500	500	530	585	440	409	350	212	60	45.5	2 51 301 008	В
560	600	615	685	490	458	365	230	60	50.9	2 51 301 008	В
630	600	642	685	545	515	385	250	60	57.3	2 51 301 008	В
710	700	737	800		581	400	280	60	64.5	2 51 301 008	Α
800	800	840	905		652	400	280	65	74.0	2 51 301 008	Α

53 80 00







Flange adaptor LS PE100 SDR11 Combined jointing face:flat and serrated

Model:

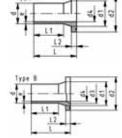
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to ANSI/ASME B 16.5
- Suitable for butterfly valve type 567/568 and 037/038/039
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 10 bar Gas / 16 bar Water
- * Type B with chamfer

.76	Type B with channel												
d	DN	FM	Code	kg	d1	d2	d3	d4	L	L1	L2	е	
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
25	20	IR	753 800 057	0.031	33	54		20	85	41	9	2.3	
32	25	IR	753 800 058	0.046	40	63		26	85	44	10	3.0	
40	32	IR	753 800 059	0.070	50	73		32	85	49	11	3.7	
50	40	IR	753 800 060	0.098	61	82		40	105	55	12	4.6	
* 90	80	IR	753 800 063	0.423	105	133		73	140	85	17	8.2	

538000 538001





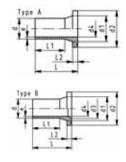


Flange adaptor PE100 SDR17/17.6 Combined jointing face: flat and serrated

Model:

- · Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/568
 Above use PE100 Adaptor for butterfly valves SDR17/17.6 (d355-d1200)
- Up to d280, suitable for butterfly valve type 037/038/039
 Above use PE100 Adaptor for butterfly valves SDR17/17.6 (d315-d1200)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 5 bar Gas / 10 bar Water
- Type A without chamfer, Type B with chamfer

d [mm]	DN [mm]	FM	Code	kg
50	40	IR	753 800 085	0.107
63	50	IR	753 800 086	0.168
75	65	IR	753 800 087	0.260
90	80	IR	753 800 088	0.367
110	100	IR	753 800 089	0.571
125	100	IR	753 800 090	0.684
140	125	IR	753 800 091	1.035
160	150	IR	753 800 092	1.342
180	150	IR	753 800 093	1.469
200	200	IR	753 800 094	2.297
		l	l	1

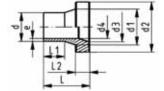


d [mm]	DN [mm]	FM	Code	kg
225	200	IR	753 800 095	2.456
250	250		753 800 096	3.500
280	250		753 800 097	3.714
315	300		753 800 098	5.470
355	350		753 800 099	16.200
400	400		753 800 100	10.300
450	500		753 800 101	15.800
500	500		753 800 102	19.995
560	600		753 800 103	27.500
630	600		753 800 104	30.000
710	700		753 800 105	39.376
800	800		753 800 106	50.759
900	900		753 800 107	64.202
1000	1000		753 800 108	79.495

d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	PF	Туре	
50 63	61 75	88 102		44 55	104 120	55 65	12 14	3.0 3.8	2 51 301 001 2 51 301 001	A A	
75 90	89 105	122 138		66 79	130 140	75 103	16 17	4.5 5.4	2 51 301 001 2 51 301 001	A A	
110 125	125 132	158 158	114	96 110	160 170	117 125	18 25	6.6 7.4	2 51 301 001 2 51 301 001	A B	
140 160	155 175	188 212	127 158	123 141	200	147 147	25 25	8.3 9.5	2 51 301 001 2 51 301 001	B B	
180 200	180 232	212 268	203	158 176	200 200	170 128	30 32	10.7 11.9	2 51 301 001 2 51 301 001	A B	
225 250 280	235 285 291	268 320 320	210 245 265	198 220 246	200 220 230	138 148 154	32 25 25	13.4 14.8 16.6	2 51 301 001 2 51 301 002 2 51 301 002	B B B	
315 355	335 373	370 430	300 340	277 312	242 261	166 179	36 30	18.7	2 51 301 002 2 51 301 008	B B	
400 450 500	427 514 530	483 585 585	385	352 396 440	290 333 350	196 195 212	33 60 60	23.7 26.7 29.7	2 51 301 008 2 51 301 008 2 51 301 008	B A A	
560 630	615 642	685 685		493 555	365 385	230 250	60 60	33.2 37.4	2 51 301 008 2 51 301 008 2 51 301 008	A	
710 800	737 840	800 905		626 705	400 400	280 280	50 52	42.1 47.4	2 51 301 008 2 51 301 008	A A	
900 1000	944 1047	1005 1110		793 881	400 400	260 260	55 60	53.3 59.3	2 51 301 008 2 51 301 008	A A	

537987





Adaptor for butterfly valves PE100 SDR11 Jointing face flat metric

Model:

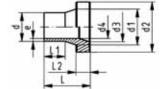
- Conventional butt-welding according to DVS 2207 part 11
 Suitable for butterfly valves type 567/568 and 037/038/039

* available starting Q1 2013

d	DN	Code	kg	d1	d2	d3	d4	L	L1	L2	е
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
* 315	300	753 798 723									
355	350	753 798 724	7.805	373	430	346	312	180	90	65	32.2
400	400	753 798 725	10.057	427	482	404	352	196	95	90	36.3
450	450	753 798 726	13.448	467	533	460	396	195	60	70	40.9
500	500	753 798 727	15.001	530	585	500	440	144	60	90	45.4
560	600	753 798 728	29.270	615	685	610	493	227	60	147	50.8
630	600	753 798 729	23.042	642	685	610	555	149	60	132	57.2
710	700	753 798 730	33.765	737	800	701	625	175	20	155	64.5
800	800	753 798 731	41.787	840	905	785	705	142	18	140	72.6

537987





Adaptor for butterfly valves PE100 SDR17/17.6 Jointing face flat metric

Model:

- · Conventional butt-welding according to DVS 2207 part 1
- Suitable for butterfly valves type 567/568 and 037/038/039

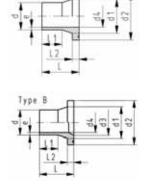
* available starting Q1 2013

d [mm]	DN [mm]	Code	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
* 315	300	753 798 748									-
355	350	753 798 749	6.479	373	430	346	312	180	90	65	21.1
400	400	753 798 750	8.426	427	482	404	352	196	95	69	23.7
450	450	753 798 751	9.570	467	533	460	396	195	60	90	26.7
500	500	753 798 752	8.263	530	585	500	440	144	60	90	29.7
560	600	753 798 753	17.307	615	685	610	493	227	60	92	33.2
630	600	753 798 754	12.122	642	685	610	555	149	60	71	37.4
710	700	753 798 755	21.505	737	800	701	625	175	20	105	42.1
800	800	753 798 756	21.841	840	905	785	705	142	18	74	47.4
900	900	753 798 757	34.187	947	1005	890	793	189	15	104	53.3
1000	1000	753 798 758	43.733	1047	1110	994	881	204	10	124	59.3
1200	1200	753 798 759	106.295	1256	1330	1860	1057	377	160	126	71.2

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Flange adaptor PE100 SDR11 Jointing face combination serrated/flat metric

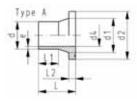
- · Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for butterfly valve type 567/568 Above use PE100 Adaptor for butterfly valves SDR11 (d355-d800)
- Up to d280, suitable for butterfly valve type 037/038/039 Above use PE100 Adaptor for butterfly valves SDR11 (d315-d800)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
 Gasket d710-d1000: flat gasket EPDM No. 48 40 03

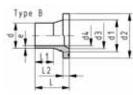
d [mm]	DN [mm]	Code	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Туре
250	250	753 798 826	3.087	285	320	245	204	121	54	35	22,7	В
280	250	753 798 827	3.760	291	320	265	229	119	69	35	25,4	В
315	300	753 798 828	4.385	335	370	300	257	166	88	35	28,6	В
355	350	753 798 829	1.795	373	430	340	290	187	98	40	32,2	В
400	400	753 798 830	8.760	427	482	385	327	196	106	45	36,3	В
450	500	753 798 831	14.680	514	585	400	368	139	61	60	40.9	В
500	500	753 798 832	13.630	530	585	440	409	138	62	60	45.4	В
560	600	753 798 833	19.380	615	684	490	458	135	20	60	50,8	В
630	600	753 798 834	16.500	642	684	545	516	135	40	60	57,2	В
710	700	753 798 835	21.586	737	800		581	120	20	60	64,5	В
800	800	753 798 836	28.505	840	905		655	120	18	65	72,6	В

537988









Flange adaptor PE100 S8.3/SDR17.6 Jointing face combination serrated/flat metric

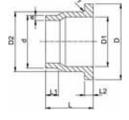
- · Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for butterfly valve type 567/568
 Above use PE100 Adaptor for butterfly valves SDR17/17.6 (d355-d1200)
- Up to d280, suitable for butterfly valve type 037/038/039
 Above use PE100 Adaptor for butterfly valves SDR17/17.6 (d315-d1200)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03

d [mm]	DN [mm]	Code	kg
250	250	753 798 851	2.272
280	250	753 798 852	2.154
315	300	753 798 853	3.819
355	350	753 798 854	4.155
400	400	753 798 855	7.810
450	500	753 798 856	10.914
500	500	753 798 857	9.865
560	600	753 798 858	14.875
630	600	753 798 859	12.515
710	700	753 798 860	15.878
800	800	753 798 861	20.948
900	900	753 798 862	29.183
1000	1000	753 798 863	36.209

d	DN	d1	d2	d3	d4	L	L1	L2	е	Type
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
250	250	285	320	245	220	121	61	25	14,8	В
280	250	291	320	265	246	119	69	25	16,6	В
315	300	335	370	300	277	164	86	25	18,7	В
355	350	373	430	340	312	180	100	30	21,1	В
400	400	427	482	385	352	197	110	33	23,7	В
450	500	514	585		396	141	64	46	26,7	В
500	500	530	585		440	141	67	46	29,7	В
560	600	615	685		493	142	60	50	33,2	В
630	600	642	685		555	144	71	50	37,4	В
710	700	737	800		626	120	20	50	42,1	Α
800	800	840	905		705	120	18	52	47,4	Α
900	900	944	1005		793	140	15	55	53,3	Α
1000	1000	1047	1110		881	140	10	60	59,3	Α

33 80 80





Outlet flange adaptor PE80 SDR11

Model:

- · Conventional butt-welding according to DVS 2207 part 1
- Suitable for wafer check valves Type 369

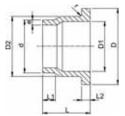
Attention:

• In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.

d	DN	Code	kg	D	D1	D2	L	L1	L2	е	r
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
40	32	733 808 034	0.073	80	37	50	64	30	11	3,7	3
50	40	733 808 035	0.104	90	43	61	67	30	12	4,6	3
63	50	733 808 036	0.172	105	54	76	74	30	14	5,8	4
75	65	733 808 037	0.242	125	70	90	78	30	16	6,8	4
90	80	733 808 038	0.348	140	82	108	87	35	17	8,2	4
110	100	733 808 039	0.508	160	105	131	102	41	18	10,0	4
140	125	733 808 041	0.976	190	130	165	124	47	25	12,7	4
160	150	733 808 042	1.337	215	158	188	149	52	25	14,6	4
225	200	733 808 045	2.814	270	206	248	180	55	32	20,5	4
280	250	733 808 047	3.550	325	259	308	240	63	35	25,4	4
315	300	733 808 048	4.960	375	308	346	272	66	35	28,6	4

33 80 80





Outlet flange adaptor PE80 SDR17.6

Model:

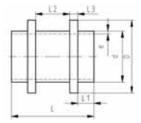
- Conventional butt-welding according to DVS 2207 part 11
- Suitable for wafer check valves Type 369

Attention:

• In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.

d	DN	Code	kg	D	D1	D2	L	L1	L2	е	r
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
40	32	733 808 009	0.060	80	37	50	64	30	11	2,3	3
50	40	733 808 010	0.067	90	43	61	67	30	12	2,9	3
63	50	733 808 011	0.159	105	54	76	74	30	14	3,6	4
75	65	733 808 012	0.219	125	70	90	78	30	16	4,3	4
90	80	733 808 013	0.314	140	82	108	87	35	17	5,1	4
110	100	733 808 014	0.465	160	105	131	102	41	18	6,3	4
140	125	733 808 016	0.862	190	130	165	124	47	18	8,0	4
160	150	733 808 017	1.176	215	158	188	149	52	18	9,1	4
225	200	733 808 020	2.484	270	206	248	180	55	24	12,8	4
280	250	733 808 022	2.230	325	259	308	240	63	25	15,9	4
315	300	733 808 023	2.450	375	308	346	272	66	25	17,9	4

#

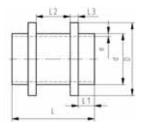


Fixed point fitting PE100 S5/SDR11

Model:

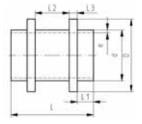
- · Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Machined

d [mm]	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
63	IR	753 665 558	0.182	90	122	30	42	10	5.8
75	IR	753 665 559	0.265	110	122	30	42	10	6.8
90	IR	753 665 560	0.357	125	122	30	42	10	8.2
110	IR	753 665 561	0.592	140	142	30	52	15	10.0
125	IR	753 665 562	0.811	160	152	35	52	15	11.4
140	IR	753 665 563	1.068	180	162	40	52	15	12.7
160	IR	753 665 564	1.349	200	162	40	52	15	14.6
180	IR	753 665 565	2.001	225	182	45	52	20	16.4
200	IR	753 665 566	2.469	250	182	45	52	20	18.2
225	IR	753 665 567	3.438	280	192	45	52	25	20.5
250		753 665 568	3.858	280	212	50	62	25	22.7
280		753 665 569	5.217	315	222	50	62	30	25.4
315		753 665 570	6.627	355	222	50	62	30	28.6
355		753 665 571	7.731	400	192	30	62	35	32.2



d [mm]	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
400		753 665 572	10.890	450	212	30	72	40	36.3
450		753 665 573	14.775	500	232	35	72	45	40.9
500		753 665 574	20.268	560	252	40	72	50	45.4
560		753 665 575	28.608	630	282	45	82	55	50.8
630		753 665 576	39.129	710	302	50	82	60	57.2





Fixed point fitting PE100 SDR17/17.6

Model:

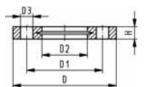
- · Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Machined

d	FM	Code	kg	D	L	L1	L2	L3	е
[mm]				[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
63	IR	753 665 577	0.144	90	122	30	42	10	3.8
75	IR	753 665 578	0.212	110	122	30	42	10	4.5
90	IR	753 665 579	0.279	125	122	30	42	10	5.4
110	IR	753 665 580	0.457	140	142	30	52	15	6.6
125	IR	753 665 581	0.618	160	152	35	52	15	7.4
140	IR	753 665 582	0.815	180	162	40	52	15	8.3
160	IR	753 665 583	1.014	200	162	40	52	15	9.5
180	IR	753 665 584	1.528	225	182	45	52	20	10.7
200	IR	753 665 585	1.887	250	182	45	52	20	11.9
225	IR	753 665 586	2.661	280	192	45	52	25	13.4
250		753 665 587	2.796	280	212	50	62	25	14.8
280		753 665 588	3.829	315	222	50	62	30	16.6
315		753 665 589	4.871	355	222	50	62	30	18.7
355		753 665 590	5.812	400	192	30	62	35	21.1
400		753 665 591	8.180	450	212	30	72	40	23.7
450		753 665 592	11.015	500	232	35	72	45	26.7
500		753 665 593	15.251	560	252	40	72	50	29.7
560		753 665 594	0.000	630	282	45	82	55	33.2
630		753 665 595	29.574	710	302	50	82	60	37.4

27 70 04 27 70 05







Backing flange PP-V For butt fusion systems metric

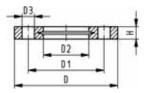
Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- · With V-groove which applies force evenly on collar
- · With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10
- * Combined version, metric-ANSI

AL: number of holes

1) Suitable for socket- and butt fusion systems (no pictograph on flange)

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
[]	[]				[]	[]	[]	[]	[]		
1) 20	15	16	727 700 406	0.093	95	65.0	28	14	16	4	M12
1) 25	20	16	727 700 407	0.120	105	75.0	34	14	17	4	M12
1) 32	25	16	727 700 408	0.151	115	85.0	42	14	18	4	M12
1) 40	32	16	727 700 409	0.244	140	100.0	51	18	20	4	M16
1) 50	40	16	727 700 410	0.297	150	110.0	62	18	22	4	M16
1) 63	50	16	727 700 411	0.362	165	125.0	78	18	24	4	M16
1) 75	65	16	727 700 412	0.487	185	145.0	92	18	26	4	M16
90	80	16	727 700 513	0.544	200	160.0	108	18	27	8	M16
110	100	16	727 700 514	0.643	220	180.0	128	18	28	8	M16
125	100	16	727 700 515	0.635	220	180.0	135	18	28	8	M16
140	125	16	727 700 516	0.842	250	210.0	158	18	30	8	M16
180	150	16	727 700 518	1.200	285	240.0	188	22	32	8	M20
250	250	16	727 700 521	2.052	395	350.0	288	22	38	12	M20
280	250	16	727 700 522	1.700	395	350.0	294	22	38	12	M20



d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
315 355	350	10	727 700 523 727 700 524	2.400 4.440	445 515	460.0	376	22 22	42 46	12 16	M20
400	400	10	727 700 525	5.624	574	515.0	430	26	50	16	M24

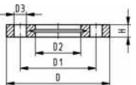
27 70 14 27 70 15

Backing flange PP-V For butt fusion systems Inch ANSI



- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Bolt circle class 150
- ¹) Suitable for socket- and butt fusion systems (no pictograph on flange) AL: number of holes
- * Combined version, metric-ANSI





			,									
Inch	DN [mm]	d [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
1 1/2	15	20	16	727 701 406	0.091	95	60.0	28	16	16	4	M12
1 3/4	20	25	16	727 701 407	0.120	105	70.0	34	16	17	4	M12
11	25	32	16	727 701 408	0.147	115	79.0	42	16	18	4	M12
1 1 1/4	32	40	16	727 701 409	0.246	140	89.0	51	16	20	4	M16
1 1 ½	40	50	16	727 701 410	0.299	150	98.0	62	16	22	4	M16
12	50	63	16	727 701 411	0.361	165	121.0	78	19	24	4	M16
1 2 1/2	65	75	16	727 701 412	0.492	185	140.0	92	19	26	4	M16
3	80	90	16	727 701 513	0.607	200	152.0	108	19	27	4	M16
4	100	110	16	727 701 514	0.736	229	190.0	128	19	28	8	M16
10	250	250	16	727 701 521	2.241	406	362.0	288	26	38	12	M20
10	250	280	16	727 701 522	2.173	406	362.0	294	26	38	12	M20
12	300	315	16	727 701 523	3.627	483	432.0	338	26	42	12	M20

27 70 02 27 70 03

Backing flange PP-Steel For butt fusion systems metric



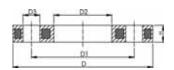


- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Bolt circle PN 10

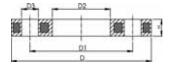
AL: number of holes



436



d	DN	PN	Code	kg	D	D1	D2	D3	Н	AL	SC
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]		
20	15	16	727 700 206	0.216	95	65	28	14	12	4	M12
25	20	16	727 700 207	0.279	105	75	34	14	12	4	M12
32	25	16	727 700 208	0.429	115	85	42	14	16	4	M12
40	32	16	727 700 209	0.621	140	100	51	18	16	4	M16
50	40	16	727 700 210	0.722	150	110	62	18	20	4	M16
63	50	16	727 700 211	1.084	165	125	78	18	20	4	M16
75	65	16	727 700 212	1.349	185	145	92	18	20	4	M16
90	80	16	727 700 313	1.390	200	160	108	18	20	8	M16
110	100	16	727 700 314	1.407	220	180	128	18	20	8	M16
125	100	16	727 700 315	1.408	220	180	135	18	20	8	M16
140	125	16	727 700 316	2.318	250	210	158	18	24	8	M16
180	150	16	727 700 318	3.108	285	240	188	22	24	8	M20
200	200	16	727 700 319	5.600	340	295	235	22	27	8	M20
225	200	16	727 700 320	5.533	340	295	238	22	27	8	M20
250	250	16	727 700 321	6.632	395	350	288	22	30	12	M20
280	250	16	727 700 322	6.573	395	350	294	22	30	12	M20

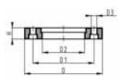


d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]		AL	SC
315	300	16	727 700 323	7.903	445	400	338	22	34	12	M20
355	350	16	727 700 324	14.587	515	460	376	22	40	16	M20
400	400	16	727 700 325	20.034	574	515	430	26	40	16	M24

24 70 04







Profiled backing flange PP/Steel For butt fusion systems metric

Model:

- PP with glass-fibre reinforcement and GGG 50 insert
- UV-resistant. Applicable for outside applications
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- Bolt circle PN 10

Note:

flat side = bolt side profiled side = flange adaptor side

AL: number of holes

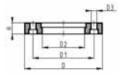
* Galvanized steel, suitable for underground laying

					-						
d	DN	PN	Code	kg	D	D1	D2	D3	Н	AL	sc
[mm]	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]		
450	500	10	724 700 426	25.600	685	620	517	26	54	20	M24
500	500	10	724 700 427	21.061	685	620	533	26	54	20	M24
560	600	10	724 700 428	35.000	796	725	618	30	64	20	M27
630	600	10	724 700 429	32.500	800	725	645	30	58	20	M27
710	700	6	724 700 430	28.600	912	840	740	30	49	24	M27
800	800	6	724 700 431	39.300	1026	950	843	33	58	24	M30
900	900	6	724 700 432	48.500	1129	1050	947	33	62	28	M30
										•	

24 70 03







Profiled backing flange PP-Steel For butt fusion systems metric

Model:

- PP with glass-fibre reinforcement and GGG 50 insert
- UV-resistant. Applicable for outside applications
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- Bolt circle PN 16

Noto:

flat side = bolt side profiled side = flange adaptor side

AL: number of holes

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
200	200	16	724 700 319	3.549	344	295	235	22	28	12	M20
225	200	16	724 700 320	3.380	344	295	238	22	28	12	M20
250	250	16	724 700 321	6.390	410	355	288	26	33	12	M24
280	250	16	724 700 322	6.310	410	355	294	26	33	12	M24
315	300	16	724 700 323	9.740	455	410	338	26	40	12	M24
355	350	16	724 700 324	15.203	521	470	376	26	50	16	M24
400	400	16	724 700 325	20.600	582	525	430	30	54	16	M27

01 48 04





Backing flange steel For butt fusion systems metric

Model:

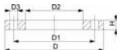
- Galvanized steel, suitable for underground laying
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- Bolt circle PN 16

AL: number of holes

		1			1		ſ		1		r
d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
32	25	16	701 474 390	0.830	115	85	42	14	12	4	M12
40	32	16	701 474 391	1.430	140	100	51	18	14	4	M16
50	40	16	701 474 392	1.530	150	110	62	18	14	4	M16
63	50	16	701 474 393	1.840	165	125	78	18	16	4	M16
75	65	16	701 474 394	2.150	185	145	92	18	16	8	M16
90	80	16	701 474 395	2.830	200	160	108	18	18	8	M16
110	100	16	701 474 396	3.300	220	180	128	18	18	8	M16
125	100	16	701 474 397	3.170	220	180	135	18	18	8	M16
125	125	16	701 474 386	3.500	250	210	135	18	25	8	M16
140	125	16	701 474 387	4.100	250	210	158	18	18	8	M16
160	150	16	701 474 382	5.440	285	240	178	22	20	8	M20
180	150	16	701 474 398	5.180	285	240	188	22	20	8	M20
200	200	16	701 480 475	8.000	340	295	235	22	24	12	M20
225	200	16	701 480 476	7.810	340	295	238	22	24	12	M20
250	250	16	701 480 477	8.120	405	355	288	26	30	12	M24
280	250	16	701 480 478	8.320	405	355	294	26	30	12	M24
315	300	16	701 480 479	9.850	460	410	338	26	34	12	M24
355	350	16	701 480 480	10.500	520	470	376	26	35	16	M24
400	400	16	701 480 481	24.400	580	525	430	30	38	16	M27
450	500	16	701 480 482	37.000	715	650	517	33	46	20	M30
500	500	16	701 480 483	32.000	715	650	533	33	46	20	M30

01 47 43





Backing flange steel For butt fusion systems metric

Modal:

- Galvanized steel, suitable for underground laying
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- Bolt circle PN 10

AL: number of holes

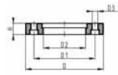
* Profiled version

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc	
200	200	10	701 474 383	6.630	340	295	235	22	20	8	M20	
225	200	10	701 474 388	6.580	340	295	238	22	20	8	M20	1
250	250	10	701 474 399	9.090	395	350	288	22	22	12	M20	ı
280	250	10	701 474 400	8.700	395	350	294	22	22	12	M20	1
315	300	10	701 474 401	12.500	445	400	338	22	26	12	M20	ı
355	350	10	701 480 489	18.300	505	460	376	22	28	16	M20	ı
400	400	10	701 480 490	24.400	565	515	430	26	32	16	M24	İ
450	500	10	701 480 491	37.000	670	620	517	26	38	20	M24	ı
500	500	10	701 480 492	32.000	670	620	533	26	38	20	M24	1
560	600	10	701 480 493	56.300	780	725	618	30	42	20	M27	1
630	600	10	701 480 494	47.200	780	725	645	30	42	20	M27	1

24 70 51







Profiled backing flange steel For butt fusion systems metric

Model:

- Ductile iron (GGG40), epoxy coated (black)
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- Bolt circle PN 10

Note:

flat side = bolt side profiled side = flange adaptor side

AL: number of holes

* Galvanized steel, suitable for underground laying

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	sc
* 450	450	10	724 705 026	22.600	615	565	470	26	44	20	M24
710	700	6	724 705 130	36.400	900	840	740	30	45	24	M27
800	800	6	724 705 131	50.500	1015	950	843	33	53	24	M30
900	900	6	724 705 132	55.800	1115	1050	947	33	56	28	M30
1000	1000	6	724 705 133	71.100	1230	1160	1050	36	62	28	M33
1200	1200	4	724 705 134	101.000	1455	1380	1260	39	68	32	M36

EPDM 48 40 03

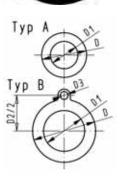
Flat gasket

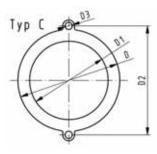
Model:



- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- · Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flange adaptors





10 15	10	Α				[mm]	[mm]	[mm]	[mm]	[mm]
		Α	748 400 305	0.004	46	16			2	6 - 26
	10	Α	748 400 306	0.012	51	20			2	10 - 30
20	10	Α	748 400 307	0.004	61	25			2	15 - 35
25	10	Α	748 400 308	0.008	71	32			2	22 - 42
32	10	Α	748 400 309	0.013	82	40			3	30 - 50
40	10	Α	748 400 310	0.016	92	50			3	40 - 60
50	10	Α	748 400 311	0.018	107	63			3	53 - 73
65	10	Α	748 400 312	0.029	127	71			3	61 - 81
80	10	Α	748 400 313	0.035	142	84			3	74 - 94
100	10	В	748 400 314	0.051	162	104	180	18	4	94 - 114
100	10	В	748 400 315	0.044	162	119	180	18	4	109 - 129
125	10	В	748 400 316	0.068	192	134	210	18	4	124 - 144
150	10	В	748 400 317	0.090	218	155	241	22	4	145 - 165
200	6	С	748 400 319	0.210	273	195	295	22	5	185 - 205
200	6	С	748 400 320	0.140	273	216	295	22	5	206 - 226
250	6	С	748 400 321	0.210	328	250	350	22	5	240 - 260
	_			1					_	263 - 283
	6	C		1					5	295 - 315
	40 50 65 80 100 125 150 200	40 10 50 10 65 10 80 10 100 10 100 10 125 10 150 10 200 6 200 6 250 6	40 10 A 50 10 A 65 10 A 80 10 A 100 10 B 100 10 B 125 10 B 150 10 B 200 6 C 200 6 C 250 6 C	40 10 A 748 400 310 748 400 311 65 10 A 748 400 311 748 400 313 100 10 B 748 400 315 125 10 B 748 400 316 150 10 B 748 400 317 200 6 C 748 400 320 250 6 C 748 400 322	40 10 A 748 400 310 0.016 50 10 A 748 400 311 0.018 65 10 A 748 400 312 0.029 80 10 A 748 400 313 0.035 100 10 B 748 400 314 0.051 100 10 B 748 400 315 0.044 125 10 B 748 400 316 0.068 150 10 B 748 400 317 0.090 200 6 C 748 400 319 0.210 200 6 C 748 400 320 0.140 250 6 C 748 400 321 0.210 250 6 C 748 400 322 0.151	40 10 A 748 400 310 0.016 92 50 10 A 748 400 311 0.018 107 65 10 A 748 400 312 0.029 127 80 10 A 748 400 313 0.035 142 100 10 B 748 400 314 0.051 162 100 10 B 748 400 315 0.044 162 125 10 B 748 400 316 0.068 192 150 10 B 748 400 317 0.090 218 200 6 C 748 400 319 0.210 273 200 6 C 748 400 320 0.140 273 250 6 C 748 400 321 0.210 328 250 6 C 748 400 322 0.151 328	40 10 A 748 400 310 0.016 92 50 50 10 A 748 400 311 0.018 107 63 65 10 A 748 400 312 0.029 127 71 80 10 A 748 400 313 0.035 142 84 100 10 B 748 400 314 0.051 162 104 100 10 B 748 400 315 0.044 162 119 125 10 B 748 400 316 0.068 192 134 150 10 B 748 400 317 0.090 218 155 200 6 C 748 400 319 0.210 273 195 200 6 C 748 400 320 0.140 273 216 250 6 C 748 400 321 0.210 328 250 250 6 C 748 400 322 0.151 328	40 10 A 748 400 310 0.016 92 50 50 10 A 748 400 311 0.018 107 63 65 10 A 748 400 312 0.029 127 71 80 10 A 748 400 313 0.035 142 84 100 10 B 748 400 314 0.051 162 104 180 100 10 B 748 400 315 0.044 162 119 180 125 10 B 748 400 316 0.068 192 134 210 150 10 B 748 400 317 0.090 218 155 241 200 6 C 748 400 329 0.210 273 195 295 250 6 C 748 400 321 0.210 328 250 350 250 6 C 748 400 322 0.151 328 273 350 <td>40 10 A 748 400 310 0.016 92 50 50 10 A 748 400 311 0.018 107 63 65 10 A 748 400 312 0.029 127 71 80 10 A 748 400 313 0.035 142 84 100 10 B 748 400 314 0.051 162 104 180 18 100 10 B 748 400 315 0.044 162 119 180 18 125 10 B 748 400 316 0.068 192 134 210 18 150 10 B 748 400 317 0.090 218 155 241 22 200 6 C 748 400 329 0.140 273 195 295 22 200 6 C 748 400 321 0.210 328 250 350 22 250 6 C <td< td=""><td>40 10 A 748 400 310 0.016 92 50 3 50 10 A 748 400 311 0.018 107 63 3 65 10 A 748 400 312 0.029 127 71 3 80 10 A 748 400 313 0.035 142 84 3 100 10 B 748 400 314 0.051 162 104 180 18 4 100 10 B 748 400 315 0.044 162 119 180 18 4 125 10 B 748 400 316 0.068 192 134 210 18 4 150 10 B 748 400 317 0.090 218 155 241 22 4 200 6 C 748 400 320 0.140 273 195 295 22 5 250 6 C 748 400 321 0.210</td></td<></td>	40 10 A 748 400 310 0.016 92 50 50 10 A 748 400 311 0.018 107 63 65 10 A 748 400 312 0.029 127 71 80 10 A 748 400 313 0.035 142 84 100 10 B 748 400 314 0.051 162 104 180 18 100 10 B 748 400 315 0.044 162 119 180 18 125 10 B 748 400 316 0.068 192 134 210 18 150 10 B 748 400 317 0.090 218 155 241 22 200 6 C 748 400 329 0.140 273 195 295 22 200 6 C 748 400 321 0.210 328 250 350 22 250 6 C <td< td=""><td>40 10 A 748 400 310 0.016 92 50 3 50 10 A 748 400 311 0.018 107 63 3 65 10 A 748 400 312 0.029 127 71 3 80 10 A 748 400 313 0.035 142 84 3 100 10 B 748 400 314 0.051 162 104 180 18 4 100 10 B 748 400 315 0.044 162 119 180 18 4 125 10 B 748 400 316 0.068 192 134 210 18 4 150 10 B 748 400 317 0.090 218 155 241 22 4 200 6 C 748 400 320 0.140 273 195 295 22 5 250 6 C 748 400 321 0.210</td></td<>	40 10 A 748 400 310 0.016 92 50 3 50 10 A 748 400 311 0.018 107 63 3 65 10 A 748 400 312 0.029 127 71 3 80 10 A 748 400 313 0.035 142 84 3 100 10 B 748 400 314 0.051 162 104 180 18 4 100 10 B 748 400 315 0.044 162 119 180 18 4 125 10 B 748 400 316 0.068 192 134 210 18 4 150 10 B 748 400 317 0.090 218 155 241 22 4 200 6 C 748 400 320 0.140 273 195 295 22 5 250 6 C 748 400 321 0.210

EPDM 48 44 07 FPM 49 44 07



Profile flange gasket metric

Model:

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**
- EPDM: approved acc. to DVGW W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel

di FA are the suitable inner diameters of flange adaptors

d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
16	10	16	748 440 705	749 440 705	0.012	46	16	4	3	6 - 16
20	15	16	748 440 706	749 440 706	0.013	51	20	4	3	10 - 20
25	20	16	748 440 707	749 440 707	0.014	61	22	4	3	12 - 22
32	25	16	748 440 708	749 440 708	0.019	71	28	4	3	18 - 28
40	32	16	748 440 709	749 440 709	0.026	82	40	4	3	30 - 40
50	40	16	748 440 710	749 440 710	0.039	92	46	4	3	36 - 46
63	50	16	748 440 711	749 440 711	0.050	107	58	5	4	48 - 58
75	65	16	748 440 712	749 440 712	0.082	127	69	5	4	59 - 69
90	80	16	748 440 713	749 440 713	0.083	142	84	5	4	73 - 84
110	100	16	748 440 714	749 440 714	0.127	162	104	6	5	94 - 104
125	100	16	748 440 715	749 440 715	0.105	162	123	6	5	113 - 123
140	125	16	748 440 716	749 440 716	0.173	192	137	6	5	127 - 137
160 / 180	150	16	748 440 717	749 440 717	0.207	218	160	8	6	150 - 160
200	200	16	748 440 719	749 440 719	0.263	273	203	8	6	192 - 203
225	200	16	748 440 720	749 440 720	0.255	273	220	8	6	207 - 220
250	250	16	748 440 721	749 440 721	0.482	328	252	8	6	238 - 252
280	250	16	748 440 722	749 440 722	0.323	328	274	8	6	264 - 274
315	300	16	748 440 723	749 440 723	0.549	378	306	8	6	296 - 306
355	350	16	748 440 724	749 440 724	0.870	438	355	10	7	340 - 355
400	400	16	748 440 725	749 440 725	1.088	489	400	10	7	385 - 400
450	500	16	748 440 726	749 440 726	0.718	594	403	10	7	393 - 403
500	500	16	748 440 727	749 440 727	0.718	594	447	10	7	437 - 447
560	600	16	748 440 728	749 440 728	0.923	695	494	10	7	484 - 494
630	600	16	748 440 729	749 440 729	0.923	695	555	10	7	545 - 555

45 44 07



Profile flange gasket metric

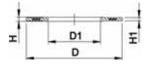
Model.

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- material steel insert: carbon steel
- NBR/DUO = Nitrile rubber, hardness approx. 80° Shore
- · Suitable for drinking water and gas applications
- Approved acc. to DVGW standard DIN EN 682
- Approved acc. to DVGW W 270, KTW recommendation
- · d corresponds to the centring at the inner diameter of the screw crown

di FA are the suitable inner diameters of flange adaptors

d [mm]	DN [mm]	PN	NBR/DUO Code	kg	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
20	15	16	745 440 706	0.009	51	20	4	3	10 - 20
		_			1	_	1	_	
25	20	16	745 440 707	0.012	61	22	4	3	12 - 22
32	25	16	745 440 708	0.018	71	28	4	3	18 - 28
40	32	16	745 440 709	0.021	82	40	4	3	30 - 40
50	40	16	745 440 710	0.029	92	46	4	3	36 - 46
63	50	16	745 440 711	0.039	107	58	5	4	48 - 58
75	65	16	745 440 712	0.058	127	69	5	4	59 - 69
90	80	16	745 440 713	0.061	142	84	5	4	73 - 84
110	100	16	745 440 714	0.096	162	104	6	5	94 - 104
125	100	16	745 440 715	0.073	162	123	6	5	113 - 123
140	125	16	745 440 716	0.127	192	137	6	5	127 - 137
160 / 180	150	16	745 440 717	0.145	218	160	8	6	150 - 160
200	200	16	745 440 719	0.295	273	203	8	6	192 - 203
225	200	16	745 440 720	0.183	273	220	8	6	207 - 220
250	250	16	745 440 721	0.355	328	252	8	6	238 - 252

table continued next page



d [mm]	DN [mm]	PN	NBR/DUO Code	kg	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
280	250	16	745 440 722	0.229	328	274	8	6	264 - 274
315	300	16	745 440 723	0.419	378	306	8	6	296 - 306
355	350	16	745 440 724	0.645	438	355	10	7	340 - 355
400	400	16	745 440 725	0.819	489	400	10	7	385 - 400
450	500	16	745 440 726	1.885	594	403	10	7	393 - 403
500	500	16	745 440 727	1.618	594	447	10	7	437 - 447
560	600	16	745 440 728	2.281	695	494	10	7	484 - 494
630	600	16	745 440 729	2.000	695	555	10	7	545 - 555

48 40 03

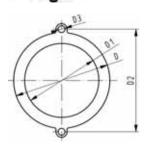




Model:

Hardness : EPDM ca. 70° Shore
Flange bolt circle: PN10

Integrated fixation aids
Centering on the inner diameter of the screw crown

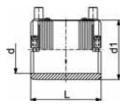


d [mm]	DN [mm]	PN*	EPDM Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]
[]	[]	[]			L	[······]	[]	[]	[]
710	700	6	748 400 330	0.900	810	625	840	30	5
800	800	6	748 400 331	1.000	917	705	950	33	5
900	900	6	748 400 332	1.200	1014	805	1050	36	5
1000	1000	6	748 400 333	1.400	1121	890	1160	39	5

Electrofusion Fittings

53 91 16





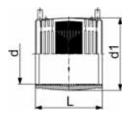
Coupler With integral pipe fixation

- PE 100 SDR 11 (ISO S5)10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators
- Removable centre stop

d	Code	kg	d1	L
[mm]			[mm]	[mm]
20	753 911 606	0.053	31	70
25	753 911 607	0.050	36	70
32	753 911 608	0.071	44	72
40	753 911 609	0.095	54	80
50	753 911 610	0.131	66	88
63	753 911 611	0.194	81	96

53 91 16





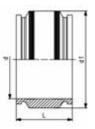
Coupler

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop up to d160

		T .		
d	Code	kg	d1	L
[mm]		_	[mm]	[mm]
75	753 911 612	0.282	96	110
90	753 911 613	0.406	113	125
110	753 911 614	0.692	138	145
125	753 911 615	0.718	154	156
140	753 911 616	0.945	172	166
160	753 911 617	1.362	196	180
180	753 911 618	1.747	219	192
200	753 911 619	1.866	244	208
225	753 911 620	3.329	273	225
250	753 911 621	4.678	304	248
280	753 911 622	5.647	340	252
315	753 911 623	8.142	382	267
355	753 911 624	13.098	432	290
400	753 911 625	18.320	487	290

53 91 16





Coupler

- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- · Only for water applications
- 4 mm pin connectors
- · Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]
450	753 911 646	20.675	559	320
500	753 911 647	28.403	621	360
560	753 911 648	39.503	694	390
630	753 911 649	55.641	780	430

53 91 16



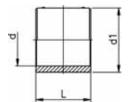
Coupler

- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- · Only for water applications
- 4 mm pin connectors

d [mm]	Code	kg	d1 [mm]	L [mm]
	753 911 650 753 911 651	72.450 102.490		
900	753 911 652	137.930	1110	550

53 91 18





Coupler

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators
- d160 with removable centre stop

d [mm]	Code	kg	d1 [mm]	L [mm]
160	753 911 817	1.017	186	180
180	753 911 818	1.434	213	192
200	753 911 819	1.726	233	206
225	753 911 820	2.545	261	225
250	753 911 821	4.616	304	248
280	753 911 822	5.606	304	252
315	753 911 823	8.186	382	267
355	753 911 824	9.522	414	290
400	753 911 825	18.000	487	290
450	753 911 826	16.000	522	313
500	753 911 827	22.000	579	343

53 91 18

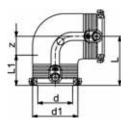


Coupler

- PE 100 SDR 17 (ISO S8)
- 10 bar water
- · Only for water applications
- 4 mm pin connectors

d [mm]	Code	kg	d1 [mm]	L [mm]
710	753 911 850	49.370	814	475
_	753 911 851	69.180	916	
900	753 911 852	93.150	1030	550
1000	753 911 853	125.650	1143	600
1200	753 911 854	196.450	1370	650





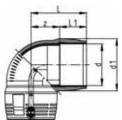
Elbow 90° With integral pipe fixation

- PE 100 SDR 11 (ISO S5)10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	Z [mm]
20	753 101 606	0.080	35	54	34	20
25	753 101 607	0.068	35	54	34	20
32	753 101 608	0.098	44	53	36	17
40	753 101 609	0.141	54	62	39	23
50	753 101 610	0.200	66	71	43	28
63	753 101 611	0.318	81	81	48	32

53 10 18





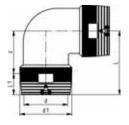
Elbow 90°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	Z [mm]
Fd			£	£	[]	F
75	753 101 612	0.415	97	94	54	40
90	753 101 813	0.828	115	122	62	60
110	753 101 814	1.224	140	147	72	76
125	753 101 815	1.742	160	142	74	68
160	753 101 817	3.830	196	178	92	86
180	753 101 818	5.410	219	195	95	100

53 10 18





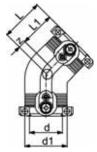
Elbow 90°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	Z [mm]
225	753 101 819 753 101 820	9.320 13.220	250 280	298 318		194 206
250	753 101 821	16.600	310	347	123	224

53 15 16





Elbow 45° With integral pipe fixation

- PE 100 SDR 11 (ISO S5)10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

	kg	d1	L	L1	Z
		[mm]	[mm]	[mm]	[mm]
753 151 609	0.106	54	50	39	11
753 151 610	0.171	66	56	43	13
753 151 611	0.252	81	63	48	15
	753 151 610	753 151 610 0.171	753 151 609 0.106 54 753 151 610 0.171 66	753 151 609 0.106 54 50 753 151 610 0.171 66 56	753 151 609 0.106 54 50 39 753 151 610 0.171 66 56 43

53 15 18





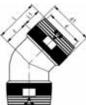
Elbow 45°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

d	Code	kg	d1	L	L1	z
[mm]			[mm]	[mm]	[mm]	[mm]
90	753 151 813	0.583	115	91	62	29
110	753 151 814	0.985	140	112	72	40
125	753 151 815	1.438	160	127	78	49
160	753 151 817	3.055	196	134	92	42
180	753 151 818	4.037	217	142	95	47

53 15 18





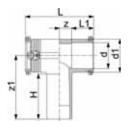
Elbow 45°

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]
	753 151 819 753 151 820	7.566 11.300	250 280	1	104 112	128 135
	753 151 821	13.500	310	1	123	152

53 21 16





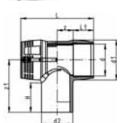
Tee 90°, equal with Integral Clamp

- PE 100 SDR 11 (ISO S5)10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

d	Code	kg	d1	L	L1	z	z1	Н
[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
20	753 211 606	0.085	35	88	32	11	92	67
25	753 211 607	0.075	35	90	32	11	92	70
32	753 211 608	0.118	44	102	34	15	100	74
40	753 211 609	0.175	54	119	39	21	114	82
50	753 211 610	0.252	66	135	42	24	126	90
63	753 211 611	0.407	81	151	46	28	150	102

53 20 18





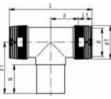
Tee 90° equal

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

d	Code	kg	d1	L	L1	z	z1	Н
[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
75	753 211 612	0.569	97	178	54	35	143	87
90	753 201 813	0.891	115	205	62	41	161	94
110	753 201 814	1.576	140	255	72	56	184	104
125	753 201 815	2.212	161	276	78	60	207	113
160	753 201 817	4.386	196	325	92	71	206	103
180	753 201 818	6.796	225	344	90	82	250	110

53 20 18





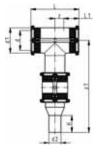
Tee 90°, equal

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]		
200 225 250		10.800 15.900 18.900	250 280 310	590 636 685	104 112 123		250 270 288	117 122 127		

93 28 10





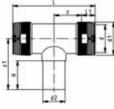
Tee 90°, reduced (Kit)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- · Limited path fusion indicators
- · Supplied as kit including ELGEF® Plus Coupler and Spigot Reducer

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	Z [mm]	z1 [mm]	H [mm]
40	20	193 281 004	0.314	54	120	39	21	244	212
40	25	193 281 005	0.319	54	120	39	21	244	212
75	40	193 280 998	1.060	97	187	61	33	296	248
90	50	193 280 999	1.655	112	202	61	41	336	274
110	63	193 280 961	2.812	136	242	65	56	366	293
125	63	193 280 963	3.673	151	256	75	53	361	279
125	110	193 280 965	3.920	151	256	75	53	389	307
180	90	193 281 032	10.891	225	344	90	82	487	347
180	110	193 281 033	10.465	225	344	90	82	495	355

53 21 10





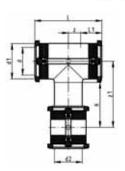
Tee 90°, reduced

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators
- Two separate fusion zones

	0 00pt	21010 1001011 2	.01100						
d	d2	Code	kg	d1	L	L1	z	z1	Н
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
160	63	753 211 037	5.660	200	433	90	126.5	176	65
160	90	753 211 039	5.508	200	496	90	158.0	188	79
160	110	753 211 040	5.157	200	496	90	158.0	195	85
200	90	753 211 059	9.012	250	596	104	194.0	215	81
200	110	753 211 060	12.400	250	596	104	194.0	218	84
200	160	753 211 063	12.400	250	596	104	194.0	236	101
225	90	753 211 069	13.100	280	658	112	217.0	226	80
225	110	753 211 070	13.100	280	658	112	217.0	235	85
225	160	753 211 073	13.600	280	658	112	217.0	255	105
250	110	753 211 080	11.660	310	685	123	219.5	245	85
250	160	753 211 083	11.660	310	685	123	219.5	264	101

53 20 16

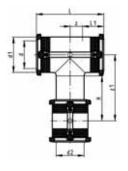




Tee 90° with weldable outlet (Kit)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- · Limited path fusion indicators
- · Supplied as kit including ELGEF® Plus Coupler or ELGEF® Plus Reducer

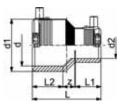
d	d2	Code	kg	d1	L	L1	z	z1	Н	
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
20	20	753 201 606	0.161	35	90	34	11	92	67	
25	25	753 201 607	0.122	35	90	34	11	92	70	
32	32	753 201 608	0.201	44	102	36	15	100	74	
40	32	193 281 006	0.288	54	120	39	21	127	95	
40	40	753 201 609	0.285	54	120	39	21	114	82	
50	32	193 281 007	0.364	66	135	43	24	144	108	
50	40	193 281 008	0.407	66	135	43	24	140	104	
50	50	753 201 610	0.389	66	135	43	24	126	90	
63	32	193 280 997	0.550	81	152	48	28	173	125	
63	40	193 281 009	0.566	81	152	48	28	169	121	
63	50	193 281 010	0.628	81	152	48	28	165	117	
63	63	753 201 611	0.615	81	152	48	28	150	102	
90	63	193 281 011	1.311	112	202	61	41	182	120	
90	90	753 201 613	1.342	112	202	61	41	146	84	
110	90	193 281 012	2.343	136	242	65	56	200	127	
110	110	753 201 614	2.329	136	242	65	56	161	88	
table c	ontinue	d next page								



d	d2	Code	kg	d1	L	L1	z	z1	Н
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
125	90	193 281 013	3.146	151	256	75	53	214	132
125	125	753 201 615	2.960	151	256	75	53	174	92
160	110	193 281 030	7.443	196	325	92	71	271	168
160	160	753 201 617	6.359	196	325	92	71	206	103
180	125	193 281 031	9.654	225	344	90	82	330	190
180	180	753 201 618	8.561	225	344	90	82	250	110

53 90 16





Reducer with Integral Clamp

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

d	d2	Code	kg	d1	L	L1	L2	z
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]
25	20	753 901 639	0.051	35	74	34	34	6
32	20	753 901 640	0.056	44	79	33	36	10
32	25	753 901 641	0.062	44	79	33	36	10
40	20	753 901 644	0.069	54	88	33	39	15
40	25	753 901 645	0.084	54	88	33	39	15
40	32	753 901 646	0.095	54	88	33	39	13
50	32	753 901 651	0.124	66	96	35	43	18
50	40	753 901 652	0.119	66	96	39	43	14
63	32	753 901 656	0.158	81	105	35	48	23
63	40	753 901 657	0.176	81	105	39	48	19
63	50	753 901 658	0.176	81	105	43	48	15

53 90 18





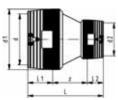
Reducer

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	Z [mm]
90	63	753 901 831	0.385	113	146	63	47	36
110	90	753 901 833	0.700	138	173	73	63	38
125	90	753 901 836	0.891	152	180	79	61	40
160	110	753 901 834	1.641	196	226	91	70	65
180	125	753 901 835	1.962	220	247	97	70	80

53 90 18





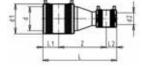
Reducer

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators
- Two separate fusion zones

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	Z [mm]
200	160	753 901 837	5.098	250	365	104	90	171
225	160	753 901 838	6.000	280	385	112	90	183
250	160	753 901 840	7.860	310	400	123	90	187
250	200	753 901 841	8.480	310	427	123	104	200

93 28 09





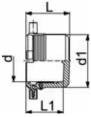
Reducer (Kit)

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- · Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler and Spigot Reducer

d	d2	Code	kg	d1	1	L1	L2	z
	1	Oue	ng	-	[]			
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]
75	40	193 280 992	0.574	96	265	55	40	170
75	50	193 280 993	0.623	96	269	55	44	170
75	63	193 280 994	0.700	96	273	55	48	170
90	50	193 280 958	0.857	113	297	63	44	190
90	75	193 280 995	1.071	113	308	63	55	190
110	63	193 280 950	1.389	138	326	73	48	205
110	75	193 280 996	1.496	138	333	73	55	205
125	63	193 280 953	1.567	154	314	79	48	187
125	110	193 280 951	2.098	154	367	79	73	215
160	90	193 280 954	3.060	196	370	90	63	217
160	125	193 280 952	3.252	196	414	90	79	245
180	110	193 280 959	4.167	214	413	95	73	245
	1		1					1

53 96 16





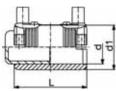
End Cap

- with integral pipe fixation
 PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

d	Code	kg	d1	L	L1
[mm]			[mm]	[mm]	[mm]
20	753 961 606	0.041	35	52	44
25	753 961 607	0.046	35	52	44
32	753 961 608	0.058	44	52	44
40	753 961 609	0.064	54	56	47
50	753 961 610	0.154	66	60	49
63	753 961 611	0.142	81	66	54

53 96 17





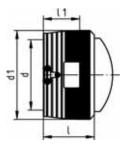
End cap (Kit)

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler

d [mm]	Code	kg	d1 [mm]	L [mm]
75	753 961 712	0.446	96	110
90	753 961 713	0.663	113	125
110	753 961 714	1.090	133	145
125	753 961 715	1.345	155	158
140	753 961 716	2.250	175	170
160	753 961 717	2.382	197	180
180	753 961 718	3.098	220	194
200	753 961 719	4.180	245	208
225	753 961 720	5.852	296	224

53 96 16





End Cap

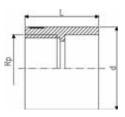
- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- · Limited path fusion indicators

d	Code	kg	d1	L	L1
[mm]			[mm]	[mm]	[mm]
160	753 961 617	1.782	200	143	90
200	753 961 619	3.585	250	162	104
225	753 961 620	4.500	280	170	112
250	753 961 621	6.300	310	185	123

73 28 19







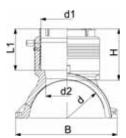
PE Adaptor Female thread

- PE 80 SDR 11 (ISO S5)
- 5 bar Gas / 12,5 bar Water
- Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF Plus Branch Saddle (53 131 000) d63 400mm, pipe SDR 11, d75 400mm, pipe SDR 17
- · Parallel female thread
- *PE 100 SDR 11 (ISO S5)

	Rp [inch]	Code	kg	L [mm]
63	1 ½	173 281 925	0.088	54

51 336 001



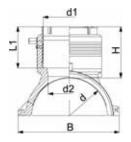


Branch saddle outlet 90 - 125 mm

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle complete, incl. lower part and 3 screws
- · Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- · Limited path fusion indicators
- * Delivered without lower part. Pipe fixation with multiple use assembly tool no. 193 281 027

d [mm]	d1 [mm]	Code	kg	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
110	90	193 135 009	1.124	101	220	82	164	65
110	110	193 135 003	1.224	107	220	88	164	65
125	90	193 135 019	1.134	101	220	82	179	65
125	110	193 135 020	1.290	107	220	88	179	65
* 140	90	193 135 029	0.982	101	220	81	195	65
* 140	110	193 135 030	1.087	107	220	87	195	65
160	90	193 135 039	1.449	102	240	82	215	65
160	110	193 135 040	1.582	108	240	88	215	86
160	125	193 135 041	1.782	129	240	99	215	86

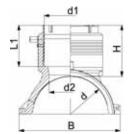
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d [mm]	d1 [mm]	Code	kg	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
180	90	193 135 049	1.672	102	260	82	237	65
180	110	193 135 050	1.765	108	260	88	237	86
180	125	193 135 051	2.015	129	260	99	237	86
200	90	193 135 059	1.803	102	260	82	253	65
200	110	193 135 060	1.963	108	260	88	253	86
200	125	193 135 061	2.128	129	260	99	253	86
225	90	193 135 069	2.006	102	260	82	287	65
225	110	193 135 070	2.040	108	260	88	287	86
225	125	193 135 071	2.312	129	260	99	287	86
250	90	193 135 079	2.145	102	260	82	312	65
250	110	193 135 080	2.258	108	260	88	312	86
250	125	193 135 081	2.500	129	260	99	312	86

51 336 001





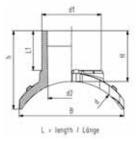
Branch saddle topload outlet 90 - 125 mm

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle for assembling as Topload with tool 799.350.477; angle adaptors (799.350.340) for fusion cable required
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- · Limited path fusion indicators

d	d1	Code	kg	Н	L	L1	В	d2
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]
280	90	193 135 289	1.242	102	260	82	243	65
280	110	193 135 290	1.295	108	260	88	243	86
280	125	193 135 291	1.530	129	260	99	243	86
315 - 355	90	193 135 309	1.214	102	260	82	249	65
315 - 355	110	193 135 310	1.297	108	260	88	249	86
315 - 355	125	193 135 311	1.530	129	260	99	249	86
400 - 450	90	193 135 329	1.039	102	260	82	256	65
400 - 450	110	193 135 330	1.116	108	260	88	256	86
400 - 450	125	193 135 331	1.369	129	260	99	256	86
500 - 630	90	193 135 159	1.086	102	260	82	263	65
500 - 630	110	193 135 160	1.159	108	260	88	263	86
500 - 630	125	193 135 161	1.388	129	260	99	263	86

51 336 001



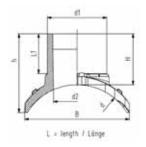


Branch saddle topload outlet 160 - 225 mm

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle installation only with installation set Topload TL225 (799.300.807); angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- · Limited path fusion indicators
- Protected wire without medium contact
- · Spigot outlet for butt- and electrofusion
- Full pressure applicable no derating factor

d	d1	Code	kg	h	Н	L	L1	В	d2
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
315	160	193 135 402	2.662	212	137	322	110	282	131
315	225	193 135 404	4.594	306	160	366	127	260	184
355	160	193 135 412	2.662	206	137	322	110	282	131
355	225	193 135 414	4.710	319	160	366	127	249	184
400	160	193 135 422	2.678	198	137	322	110	300	131
400	225	193 135 424	4.700	329	160	366	127	241	184
450	160	193 135 432	2.678	194	137	322	110	300	131
450	225	193 135 434	4.700	329	160	366	127	233	184
500	160	193 135 442	2.708	186	137	322	110	310	131
500	225	193 135 444	4.650	344	160	366	127	226	184
560	160	193 135 452	2.708	183	137	322	110	310	131
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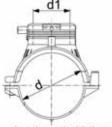
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d [mm]	d1 [mm]	Code	kg	h [mm]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
[iiiiii]	Limin			[iiiiii]	firming	Limin	[iiiiii]	[iiiiii]	Limin
560	225	193 135 454	4.650	344	160	366	127	220	184
630	160	193 135 462	2.500	177	137	322	110	312	131
630	225	193 135 464	4.630	353	160	366	127	214	184
710	160	193 135 472	2.500	172	137	322	110	312	131
710	225	193 135 474	4.630	352	160	366	127	208	184
800	160	193 135 482	2.500	168	137	322	110	312	131
800	225	193 135 484	4.610	359	160	366	127	203	184
900	225	193 135 494	4.610	359	160	366	127	199	184
1000	225	193 135 504	4.610	359	160	366	127	195	184

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L = length / Länge

Electrofusion saddle

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- ***Complete with moulded-on lower part
- 4 mm pin connectors
- Limited path fusion indicators

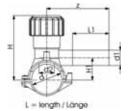
*not suitable for all tapping-tees, tapping-valves and spigots with cutter of the modular systems

** = not suitable for all tapping-tees, tapping-valves and spigots with cutter of the modular systems / delivery without lower part for assembling as Top load with tool 799.350.475

d	d1	Code	kg	L
[mm]	[mm]			[mm]
63	63	193 131 037	0.325	165
75	63	193 131 047	0.455	165
90	63	193 131 057	0.412	165
110	63	193 131 067	0.458	165
125	63	193 131 077	0.502	165
140	63	193 131 087	0.523	165
160	63	193 131 097	0.493	165
180	63	193 131 107	0.600	165
200	63	193 131 117	0.634	165
225	63	193 131 127	0.618	165
* 250	63	193 131 137	0.627	165
** 280	63	193 131 147	0.359	165
** 315 - 355	63	193 131 157	0.373	165

53 131 400





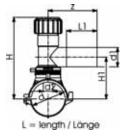
Tapping Saddle Monobloc version

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- · Limited path fusion indicators
- · Long fusion outlet
- O-ring-sealed screw cap

d	d1	Code	kg	d2	Н	H1	L	L1	z
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
40	20	193 131 412	0.225	16	99	33	103	70	102
40	25	193 131 413	0.226	16	99	33	103	70	102
40	32	193 131 414	0.225	16	99	33	103	70	120
50	20	193 131 422	0.214	16	104	38	103	70	102
50	25	193 131 423	0.212	16	104	38	103	70	102
50	32	193 131 424	0.228	16	104	38	103	70	120
63	20	193 131 432	0.428	25	134	44	126	70	115
63	25	193 131 433	0.431	25	134	44	126	70	115
63	32	193 131 434	0.425	25	134	44	126	70	130

53 131 400



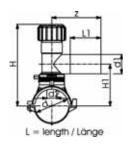


Tapping Saddle with 360° rotatable outlet

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- · Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap
- d315-400mm: restricted application for pipes d355 and d400mm. Not suitable for pipes if wall thickness is larger than SDR17 pipes.
- *moulded-on lower clamp
- **Delivery without lower part for assembling as Top Load with tool no. 799.350.477; angle adaptor (799.350.340) for fusion cable required

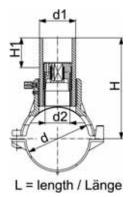
d [mm]	d1 [mm]	Code	kg	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	Z [mm]	
63 63 63 63 63	20 25 32 40 63	193 131 402 193 131 403 193 131 404 193 131 405 193 131 437	0.697 0.637 0.701 0.718 1.426	32 32 32 32 32	186 186 186 186 134	108 108 108 108 112	165 165 165 165 165	71 71 76 81 100	130 130 130 137 160	
75 75 75 75 75	20 25 32 40 63	193 131 442 193 131 443	0.831 0.830 0.812 0.849 1.565	32 32 32 32 32 32	191 191 191 191 191 240	113 113 113 113 113	165 165 165 165 165	71 71 76 81 100	130 130 130 137 160	
90 90 90 90	20 25 32 40 63		0.793 0.790 0.770 0.811 1.494	32 32 32 32 32 32	199 199 199 199 248	121 121 121 121 121 126	165 165 165 165 165	71 71 76 81 100	130 130 130 137 160	
* 110 * 110 * 110 * 110 * 110	20 25 32 40 63	193 131 462 193 131 463 193 131 464 193 131 465 193 131 467	0.826 0.808 0.831 0.805 1.097	32 32 32 32 32 35	209 209 209 209 258	131 131 131 131 136	165 165 165 165 165	71 71 76 81 100	130 130 130 137 160	
125 125 125 125 125	20 25 32 40 63		0.880 0.878 0.878 0.874 1.184	32 32 32 32 32 35	216 216 216 216 265	138 138 138 138 143	165 165 165 165 165	71 71 76 81 100	130 130 130 137 160	
140 140 140 140 140	20 25 32 40 63	193 131 482 193 131 483 193 131 484 193 131 485 193 131 487	0.887 0.874 0.894 0.920 1.180	32 32 32 32 32 35	233 233 233 233 273	146 146 146 146 151	165 165 165 165 165	71 71 76 81 100	130 130 130 137 160	
* 160 * 160 * 160 * 160 * 160	20 25 32 40 63		0.916 0.912 0.915 0.936 1.221	32 32 32 32 32 35	243 243 243 243 283	156 156 156 156 161	165 165 165 165 165	71 71 76 81 100	130 130 130 137 160	
180 180 180 180 180	20 25 32 40 63	193 131 502 193 131 503 193 131 504 193 131 505 193 131 507	0.994 1.001 0.957 1.007 1.587	32 32 32 32 32 35	244 244 244 244 293	166 166 166 166 171	165 165 165 165 165	71 71 76 81 100	130 130 130 137 160	
200 200 200 200 200	20 25 32 40 63	193 131 512 193 131 513 193 131 514 193 131 515 193 131 517	1.015 1.015 0.985 1.024 1.745	32 32 32 32 32 35	254 254 254 254 254 303	176 176 176 176 176 181	165 165 165 165 165	71 71 76 81 100	137 130 130 137 160	
225 225 225 225	20 25 32 40	193 131 524	1.016 1.025 1.019 1.029	32 32 32 32	266 266 266 266	188 188 188 188	165 165 165 165	71 71 76 81	130 130 130 137	

table continued next page



d [mm]	d1 [mm]	Code	kg	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	Z [mm]
225	63	193 131 527	1.738	35	315	193	165	100	160
250	20	193 131 532	1.025	32	279	201	165	76	130
250	25	193 131 533	1.026	32	279	201	165	76	130
250	32	193 131 534	0.996	32	279	201	165	76	130
250	40	193 131 535	1.008	32	279	201	165	81	137
250	63	193 131 537	1.733	35	328	206	165	100	160
** 280	63	193 131 547	1.478	35	328	206	165	100	160
** 315-355	63	193 131 557	1.481	35	328	206	165	100	160

53 131 200



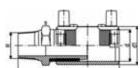
Spigot Saddle with Cutter

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- · Limited path fusion indicators
- d315 400 mm: application is limited on pipes d355 and d400 mm. Not suitable for pipes if larger wall thickness than SDR 17 pipes.
- **Delivery without lower part for assembling as Top Load with tool no. 799.350.477;
 angle adaptor (799.350.340) for fusion cable required

d [mm]	d1 [mm]	Code	kg	d2 [mm]	H [mm]	H1 [mm]	L [mm]	SW [mm]	
63	32	193 131 234	0.469	19	145	50	165	13	
63	63	193 131 237	1.036	32	152	50	165	17	
75	32	193 131 244	0.618	19	151	50	165	13	
75	63	193 131 247	1.166	32	158	50	165	17	
90	32	193 131 254	0.543	19	158	50	165	13	
90	63	193 131 257	1.128	32	165	50	165	17	
110	32	193 131 264	0.607	19	168	50	165	13	
110	63	193 131 267	1.195	32	175	50	165	17	
125	32	193 131 274	0.659	19	176	50	165	13	
125	63	193 131 277	1.224	32	183	50	165	17	
140	32	193 131 284	0.679	19	183	50	165	13	
140	63	193 131 287	1.224	32	190	50	165	17	
160	32	193 131 294	0.652	19	193	50	165	13	
160	1	193 131 297	1.186	32	200	50	165	17	
180	32	193 131 304	0.777	19	203	50	165	13	
180	63	193 131 307	1.316	32	210	50	165	17	
200	32	193 131 314	0.854	19	213	50	165	13	
200		193 131 317	1.352	32	220	50	165	17	
225	1	193 131 324	0.856	19	226	50	165	13	
225	63	193 131 327	1.324	32	233	50	165	17	
250	32	193 131 334	0.787	19	238	50	165	13	
250	63	193 131 337	1.348	32	245	50	165	17	
** 280		193 131 347	0.830	35	245	50	165	17	
** 315 - 355	63	193 131 357	1.094	35	245	50	165	17	

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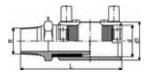


Transition coupler PE/brass (Ms 58) Male thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- Supplied as a kit

d [mm]	R [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
20	1/2	720 920 756	0.187	31	110	30
20	1	720 920 754	0.344	44	124	40
25	3/4	720 920 757	0.254	36	111	35
25	1	720 920 763	0.340	44	124	40
32	1/2	720 920 764	0.213	44	121	30
32	3/4	720 920 765	0.268	44	122	35

table continued next page



d [mm]	R [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
[]	[IIIOII]			[min]	[]	[]
32	1	720 920 758	0.340	44	117	40
32	1 1/4	720 920 766	0.489	54	135	50
32	1 ½	720 920 767	0.635	60	143	60
32	2	720 920 768	1.000	81	157	70
40	1	720 920 771	0.364	54	133	40
40	1 1/4		0.514	54	127	50
40	1 ½	720 920 772	0.645	66	143	60
40	2	720 920 773	0.961	81	157	70
50	1	720 920 776	0.367	66	141	40
50	1 1/4	720 920 777	0.554	66	143	50
50	1 ½	720 920 760	0.652	66	135	60
50	2	720 920 778	0.971	81	157	70
63	1	720 920 781	0.441	81	151	40
63	1 1/4	720 920 782	0.600	81	153	40
63	1 ½	720 920 783	0.712	81	153	60
63	2	720 920 761	0.943	81	147	70

20 92 02



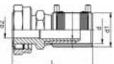
Transition coupler PE/brass (Ms 58) Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- · With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- Supplied as a kit

	- - · · · · ·					
d	Rp	Code	kg	d1	L	s
[mm]	[inch]			[mm]	[mm]	[mm]
32	1	720 920 258	0.306	44	108	40
40	1 1/4	720 920 259	0.496	54	118	50
50	1 ½	720 920 260	0.725	66	126	60
63	1	720 920 281	1.300	81	138	70
63	1 1/4	720 920 282	1.230	81	138	70
63	1 ½	720 920 283	1.134	81	138	70
63	2	720 920 261	1.057	81	138	70

20 91 00

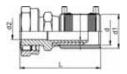




Transition Coupler PE/brass (Ms 58) with loose Nut

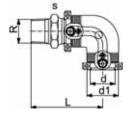
- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- · With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and reductions
- Incl. flat gasket for water applications (KTW / WRAS approved)

		,				
d	Rp	Code	kg	d1	d2 [mm]	L
[mm]	[inch]			[mm]	friggi	[mm]
25	3/4	720 910 007	0.232	36	15	104
25	1	720 910 017	0.315	36	16	106
32	1	720 910 008	0.297	44	20	110
32	1 1/4	720 910 018	0.460	44	22	114
32	1 ½	720 910 028	0.480	44	22	114
40	1	720 910 009	0.465	54	21	119
40	1 1/4	720 910 019	0.520	54	25	123
40	1 ½	720 910 029	0.577	54	28	123
50	1	720 910 020	0.635	66	20	128
50	1 1/4	720 910 030	0.730	66	25	133
50	1 1/2	720 910 010	0.736	66	29	133
50	2	720 910 040	0.929	66	36	137
63	1	720 910 021	1.013	81	20	137



d [mm]	Rp [inch]	Code	kg	d1 [mm]	d2 [mm]	L [mm]
63 63	1	720 910 031 720 910 041	1.060 1.070	_	25 29	
63	1	720 910 011	1.251		36	





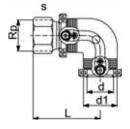
Transition elbow 90° PE/brass (Ms 58) Male thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- Supplied as a kit

d	R	Code	kg	d1	L	s
[mm]	[inch]		_	[mm]	[mm]	[mm]
20	1/2	720 100 756	0.240	31	96	30
25	3/4	720 100 757	0.260	36	97	35
32	1	720 100 758	0.368	44	98	40
32	1 1/4	720 100 766	0.500	44	100	50
32	1 ½	720 100 767	0.562	44	100	60
40	1	720 100 771	0.511	54	107	50
40	1 1/4	720 100 759	0.534	54	109	50
40	1 ½	720 100 772	0.615	54	109	60
50	1	720 100 776	0.677	66	116	60
50	1 1/4	720 100 777	0.771	66	118	60
50	1 ½	720 100 760	0.734	66	118	60
63	1 1/4	720 100 782	1.040	81	128	70
63	1 1/2	720 100 783	1.039	81	128	70
63	2	720 100 761	1.108	81	132	70

20 10 02



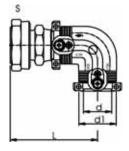


Transition elbow 90° PE/brass (Ms 58) Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- · Supplied as a kit

d [mm]	Rp [inch]	Code	kg	d1 [mm]	L [mm]	S [mm]
[]	[511]			[]	[i]	[1]
32	1	720 100 258	0.359	44	89	40
40	1 1/4	720 100 259	0.525	54	100	50
50	1 ½	720 100 260	0.825	66	109	60
63	1	720 100 281	1.420	81	123	70
63	1 1/4	720 100 282	1.391	81	123	70
63	1 ½	720 100 283	1.305	81	123	70
63	2	720 100 261	1.165	81	123	70





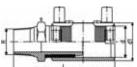
Transition Elbow 90° PE/brass (Ms 58) with loose Nut

- PE 100 SDR 11 (ISO S5)
- 16 bar Water
- · With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- Supplied as a kit
- · Incl. flat gasket for water applications (KTW / WRAS approved)

-d	D.,,	Codo	lea.	44	
d	Rp	Code	kg	d1	L
[mm]	[inch]			[mm]	[mm]
25	3/4	720 100 007	0.240	36	90
25	1	720 100 017	0.310	36	92
32	1	720 100 008	0.347	44	91
32	1 1/4	720 100 018	0.490	44	95
40	1	720 100 009	0.505	54	101
40	1 1/4	720 100 019	0.565	54	105
40	1 ½	720 100 029	0.635	54	105
50	1	720 100 020	0.760	66	111
50	1 1/2	720 100 010	0.850	66	116
50	2	720 100 040	1.060	66	120
63	1	720 100 021	1.114	81	121
63	1 1/2	720 100 041	1.210	81	125
63	2	720 100 011	1.375	81	129

24 92 07





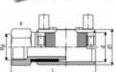
Transition coupler PE/steel (stainless 1.4305) Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and reductions

d	R	Code	kg	d1	L	s
[mm]	[inch]			[mm]	[mm]	[mm]
20	1/2	724 920 756	0.165	31	110	30
25	3/4	724 920 757	0.249	36	111	35
32	1	724 920 758	0.332	44	117	40
40	1 1/4	724 920 759	0.464	54	127	50
40	1 ½	724 920 772	0.528	66	143	60
50	1 ½	724 920 760	0.611	66	135	60
63	1 1/2	724 920 771	0.904	81	147	70
63	2	724 920 761	0.942	81	147	70

24 92 02



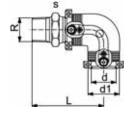


Transition coupler PE/steel (stainless 1.4305) Female thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- Supplied as a kit

d [mm]	Rp [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
20	1/2	724 920 256	0.179	31	100	30
25	3/4	724 920 257	0.231	36	101	35
32	1	724 920 258	0.319	44	108	40
40	1 1/4	724 920 259	0.480	54	118	50
50	1 ½	724 920 260	0.646	66	126	60
63	2	724 920 261	0.931	81	138	70





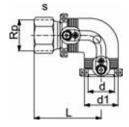
Transition elbow 90° PE/steel (stainless 1.4305) Male thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- · Supplied as a kit

d [mm]	R [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
20	1/2	724 100 756	0.211	31	96	30
25	3/4	724 100 757	0.230	36	97	35
32	1	724 100 758	0.324	44	98	40
40	1 1/4	724 100 759	0.560	54	109	50
40	1 ½	724 100 772	0.599	54	109	60
50	1 ½	724 100 760	0.701	66	118	60
63	1 ½	724 100 771	0.986	81	132	70
63	2	724 100 761	1.105	81	132	70

24 10 02





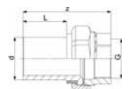
Transition elbow 90° PE/steel (stainless 1.4305) Female thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- · With integral pipe fixation
- 4 mm pin connectors
- · Limited path fusion indicators
- · Supplied as a kit

	•					
d [mm]	Rp [inch]	Code	kg	d1 [mm]	L [mm]	S [mm]
[min]	[IIIOII]			trunni	firming	truuni
20	1/2	724 100 256	0.211	31	86	30
25	3/4	724 100 257	0.237	36	87	35
32	1	724 100 258	0.320	44	89	40
40	1 1/4	724 100 259	0.545	54	100	50
50	1 ½	724 100 260	0.805	66	109	60
63	2	724 100 261	1.020	81	123	70

Union adaptor





- · With female thread and PE-union end
- The Code Nr. includes the entire union (galvanised)
- PE 100 SDR 11 (ISO S5)

d [mm]	Rp [inch]	Code	kg	L [mm]	L2 [mm]	SW1 [mm]	G [inch]
20	1/2	701 485 560	0.152	94	52	27	1
25	3/4	701 485 561	0.252	100	52	32	11/4
32	1	701 485 562	0.333	108	54	34	11/2
40	1 1/4	701 485 563	0.563	114	57	43	2
50	1 ½	701 485 564	0.765	124	65	50	21/4
63	2	701 485 565	1.054	134	65	61	23/4

24 92 07

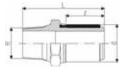


Transition adaptor PE/steel (stainless 1.4305) Male thread

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- · Only for ELGEF Plus Couplers and Fittings

d [mm]	R [inch]	Code	kg	L [mm]	z [mm]
20	1/2	724 920 706	0.120	75	33
25	3/4	724 920 707	0.179	76	33
32	1	724 920 708	0.244	80	35
40	1 1/4	724 920 709	0.390	86	39
40	1 ½	724 920 719	0.446	86	39

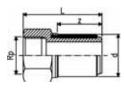
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d [mm]	R [inch]	Code	kg	L [mm]	Z [mm]
50	1 1/3	724 920 710	0.478	90	43
63		724 920 721	0.653		
63	2	724 920 711	0.722	98	47

24 92 02





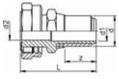
Transition adaptor PE/steel (stainless 1.4305) Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- · Only for ELGEF Plus Couplers and Fittings

d [mm]	Rp [inch]	Code	kg	L [mm]	z [mm]
20	1/2	724 920 206	0.128	65	33
25	3/4	724 920 207	0.181	66	33
32		724 920 208	0.237	71	35
40 50		724 920 209 724 920 210	0.373 0.527	77 81	39 43
63	2		0.733	89	47

20 92 00





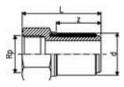
Transition adaptor PE/brass Loose nut (Ms 58)

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Only for ELGEF Plus Couplers and Fittings
- Incl. flat gasket for water applications (KTW / WRAS approved)

d	Rp	Code	kg	d2	L	z
[mm]	[inch]			[mm]	[mm]	[mm]
25	3/4	720 920 007	0.152	15	68	32
25	1	720 920 017	0.223	16	70	32
32	1	720 920 008	0.235	20	72	34
32	1 1/4	720 920 018	0.356	22	76	34
32	1 ½	720 920 028	0.355	22	76	34
40	1	720 920 009	0.341	21	77	38
40	1 1/4	720 920 019	0.401	25	81	38
40	1 1/2	720 920 029	0.471	28	81	38
50	1	720 920 020	0.517	20	82	42
50	1 1/4	720 920 030	0.549	25	87	42
50	1 1/2	720 920 010	0.584	29	87	42
50	2	720 920 040	0.808	36	91	42
63	1	720 920 021	0.804	20	87	46
63	1 1/4	720 920 031	0.850	25	91	46
63	1 1/2	720 920 041	0.847	29	91	46
63	2	720 920 011	1.018	36	95	46

20 92 02





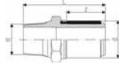
Transition adaptor PE/brass (Ms 58) Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- · Only for ELGEF Plus Couplers and Fittings

d [mm]	Rp [inch]	Code	kg	L [mm]	Z [mm]
32	1	720 920 208	0.250	71	35
40	1 1/4	720 920 209	0.386	77	39
50	1 1/2	720 920 210	0.594	81	43
63	1	720 920 221	1.100	89	47
63	1 1/4	720 920 231	1.062	89	47
63	1 1/2	720 920 241	0.958	89	47
63	2	720 920 211	0.832	89	47

20 92 07





Transition adaptor PE/brass (Ms 58) Male thread

- PE 100 SDR 11 (ISO S5)
 10 bar Gas / 16 bar Water
 Only for ELGEF Plus Couplers and Fittings

d [mm]	R [inch]	Code	kg	L [mm]	z [mm]
20	1/2	720 920 706	0.133	75	33
				_	
25	3/4	720 920 707	0.182	76	33
32	1	720 920 708	0.257	80	35
32	1 1/4		0.370	82	35
32	1 ½	720 920 728	0.437	82	35
40	1	720 920 719	0.358	84	39
40	1 1/4	720 920 709	0.410	86	39
40	1 ½	720 920 729	0.454	86	39
50	1	720 920 720	0.505	88	43
50	1 1/4	720 920 730	0.539	90	43
50	1 1/2	720 920 710	0.514	90	43
63	1 1/4	720 920 721	0.739	94	47
63	1 ½	720 920 731	0.709	94	47
63	2	720 920 711	0.762	98	47

Spigot Fittings for Electrofusion

Elbow 90° PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Water



53 10 10

d	Code	kg	z	L	е	PF
[mm]			[mm]	[mm]	[mm]	
20	753 101 006	0.027	75	52	3.0	2 51 301 001
25	753 101 007	0.040	80	52	3.0	2 51 301 001
32	753 101 008	0.056	85	54	3.0	2 51 301 001
40	753 101 009	0.089	95	57	3.7	2 51 301 001
50	753 101 010	0.156	105	63	4.6	2 51 301 001
63	753 101 011	0.274	115	65	5.8	2 51 301 001
75	753 101 012	0.414	130	72	6.8	2 51 301 001
90	753 101 013	0.704	150	81	8.2	2 51 301 001
110	753 101 014	1.158	165	86	10.0	2 51 301 001
125	753 101 015	1.609	180	93	11.4	2 51 301 001
140	753 101 016	2.222	194	92	12.7	2 51 301 001
160	753 101 017	3.100	210	103	14.6	2 51 301 001
180	753 101 018	4.328	232	107	16.4	2 51 301 001
200	753 101 019	5.739	253	117	18.2	2 51 301 001
225	753 101 020	7.775	270	122	20.5	2 51 301 001
250	753 101 001	10.506	292	130	22.7	2 51 301 002
280	753 100 922	15.059	320	140	25.4	2 51 301 002
315	753 100 923	21.960	370	150	28.6	2 51 301 002

53 10 08

Elbow 90° PE100 SDR17/17,6

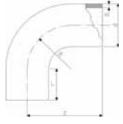
- Long spigot version
- 5 bar Gas / 10 bar Water



d [mm]	Code	kg	z [mm]	L [mm]	e [mm]	PF	
90	753 100 813	0.543	150	81	5,4	2 51 301 001	
110	753 100 814	0.876	165	86	6,6	2 51 301 001	
125	753 100 815	0.927	180	93	7,4	2 51 301 001	
140	753 100 816	1.547	194	92	8,3	2 51 301 001	
160	753 100 817	2.385	210	102	9,5	2 51 301 001	
180	753 100 818	3.205	232	107	10,7	2 51 301 001	
200	753 100 819	4.298	253	115	11,9	2 51 301 001	
225	753 100 820	5.864	270	120	13,4	2 51 301 001	
250	753 100 821	8.000	292	130	14,8	2 51 301 002	
280	753 100 822	11.328	320	140	16,6	2 51 301 002	
315	753 100 823	15.877	370	150	18,7	2 51 301 002	

53 00 09





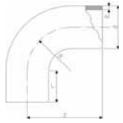
Bend 90° PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Water
- bends made out of seamless pipe shall not be shortened
- * made out of seamless pipe

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
32	753 001 008	0.050	78	46	32	2,9
40	753 001 009	0.090	91	49	40	3,7
50	753 001 010	0.160	107	55	50	4,6
63	753 001 011	0.280	130	63	63	5,8
75	753 001 012	0.464	152	70	75	6,8
90	753 001 013	0.530	168	79	90	8,2
110	753 001 014	1.282	193	82	110	10,0
125	753 001 015	1.290	216	87	125	11,4
140	753 001 016	2.230	232	92	140	12,7
160	753 001 017	3.424	258	98	160	14,6
180	753 001 018	5.000	290	105	180	16,4
200	753 001 019	6.925	317	112	200	18,2
225	753 001 020	9.770	350	120	225	20,5
250	753 001 021	9.230	375	130	250	22,7
280	753 001 022	15.487	430	150	280	25,4
315	753 001 023	23.950	470	150	315	28,6
* 355	753 001 024	53.300	900	250	533	32,3
* 400	753 001 025	71.900	980	250	600	36,4
* 450	753 001 026	97.300	1070	250	675	40,9
* 500	753 001 027	134.000	1200	280	750	45,5
* 560	753 001 028	179.300	1290	280	840	50,9
* 630	753 001 029	243.200	1400	280	945	57,3
* 710	753 001 030	469.943	2200	570	1630	64,5
* 800	753 001 031	577.131	2200	480	1720	72,6

53 00 08





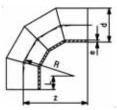
Bend 90° PE100 SDR17

- Long spigot version
 5 bar Gas / 10 bar Water
 bends made out of seamless pipe shall not be shortened
- * made out of seamless pipe

d	Code	kg	Z	L	R	e					
[mm]			[mm]	[mm]	[mm]	[mm]					
90	753 000 813	0.521	168	79	90	5,4					
110	753 000 814	0.465	193	82	110	6,6					
125	753 000 815	1.300	216	87	125	7,4					
140	753 000 816	1.789	232	92	140	8,3					
160	753 000 817	2.410	258	98	160	9,5					
180	753 000 818	4.000	290	105	180	10,7					
200	753 000 819	6.500	317	112	200	11,9					
225	753 000 820	6.414	350	120	225	13,4					
250	753 000 821	9.940	375	130	250	14,8					
280	753 000 822	13.795	430	150	280	16,6					
315	753 000 823	24.000	470	150	315	18,7					
* 355	753 000 824	36.700	900	250	533	21,1					
* 400	753 000 825	49.700	980	250	600	23,7					
* 450	753 000 826	66.600	1070	250	675	26,7					
* 500	753 000 827	87.400	1200	280	750	29,7					
* 560	753 000 828	116.000	1290	280	840	33,2					
* 630	753 000 829	159.600	1400	280	945	37,4					
* 710	753 000 830	317.382	2200	570	1630	42,1					
* 800	753 000 831	389.859	2200	480	1720	47,4					

53 00 08





Bend 90° PE100 SDR17

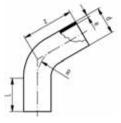
Model:

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
710	753 002 001	202.419	1415	350	1065	42.1
800	753 002 002	279.918	1550	350	1200	47.4
900	753 002 003	386.595	1700	350	1350	53.3
1000	753 002 004	534.660	1900	400	1500	59.3

53 07 10





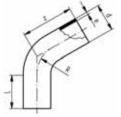
Bend 60° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- · made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]	
32	753 071 008	0.070	128	80	48	2,9	
40	753 071 009	0.120	135	80	60	3,7	
50	753 071 010	0.240	158	100	75	4,6	
63	753 071 011	0.420	173	100	95	5,8	
75	753 071 012	0.600	182	100	113	6,8	
90	753 071 013	0.900	193	100	135	8,2	
110	753 071 014	1.780	270	150	165	10,0	
125	753 071 015	2.500	283	150	188	11,4	
140	753 071 016	2.700	296	150	210	12,7	
160	753 071 017	4.574	313	150	240	14,6	
180	753 071 018	4.900	330	150	270	16,4	
200	753 071 019	6.400	348	150	300	18,2	
225	753 071 020	8.600	370	150	338	20,5	
250	753 071 021	14.500	500	250	375	22,7	
280	753 071 022	19.100	530	250	420	25,4	
315	753 071 023	25.600	612	250	473	28,6	
355	753 071 024	41.700	690	300	533	32,3	
400	753 071 025	55.800	730	300	600	36,4	
450	753 071 026	76.000	780	300	675	40,9	
500	753 071 027	104.600	880	350	750	45,5	
560	753 071 028	139.500	930	350	840	50,9	
630	753 071 029	188.500	1000	350	945	57,3	

53 07 08





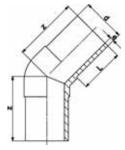
Bend 60° PE100 SDR17/17,6

- Long spigot version5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	Z [mm]	L [mm]	R [mm]	e [mm]
90	753 070 813	0.600	193	100	135	5,4
110	753 070 814	1.280	270	150	165	6,6
125	753 070 815	1.300	283	150	187	7,4
140	753 070 816	1.800	296	150	210	8,3
160	753 070 817	3.160	313	150	240	9,5
180	753 070 818	3.190	330	150	270	10,7
200	753 070 819	4.200	348	150	300	11,9
225	753 070 820	5.600	370	150	337	13,4
250	753 070 821	9.250	500	250	375	14,8
280	753 070 822	15.000	530	250	420	16,6
315	753 070 823	19.500	612	250	472	18,7
355	753 070 824	30.100	690	300	532	21,1
400	753 070 825	38.200	730	300	600	23,7
450	753 070 826	53.700	780	300	675	26,7
500	753 070 827	73.900	880	350	750	29,7
560	753 070 828	98.200	930	350	840	33,2
630	753 070 829	132.300	1000	350	945	37,4

53 15 10





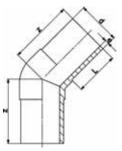
Elbow 45° PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Water

d [mm]	Code	kg	Z [mm]	L [mm]	e [mm]	PF
20	753 151 006	0.027	70	52	3,0	2 51 301 001
25	753 151 007	0.037	75	52	3,0	2 51 301 001
32	753 151 008	0.050	80	54	3,0	2 51 301 001
40	753 151 009	0.086	85	57	3,7	2 51 301 001
50	753 151 010	0.133	90	63	4,6	2 51 301 001
63	753 151 011	0.227	95	65	5,8	2 51 301 001
75	753 151 012	0.350	105	72	6,8	2 51 301 001
90	753 151 013	0.565	120	81	8,2	2 51 301 001
110	753 151 014	0.921	130	86	10,0	2 51 301 001
125	753 151 015	1.290	140	92	11,4	2 51 301 001
140	753 151 016	1.796	164	120	12,7	2 51 301 001
160	753 151 017	2.454	162	102	14,6	2 51 301 001
180	753 151 018	3.274	170	107	16,4	2 51 301 001
200	753 151 019	4.362	186	116	18,2	2 51 301 001
225	753 151 020	5.981	200	123	20,5	2 51 301 001
250	753 151 021	8.283	220	130	22,7	2 51 301 002
280	753 150 922	10.285	230	140	25,4	2 51 301 002
315	753 150 923	14.124	250	150	28,6	2 51 301 002

53 15 08





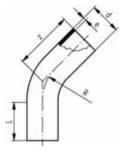
Elbow 45° PE100 SDR17/17,6

- Long spigot version5 bar Gas / 10 bar Water

d	Code	kg	z	L	е	PF
[mm]			[mm]	[mm]	[mm]	
90	753 150 813	0.411	120	81	5,4	2 51 301 001
110	753 150 814	0.686	130	86	6,6	2 51 301 001
125	753 150 815	0.948	140	92	7,4	2 51 301 001
140	753 150 816	1.259	164	120	8,3	2 51 301 001
160	753 150 817	1.901	162	102	9,5	2 51 301 001
180	753 150 818	2.386	170	107	10,7	2 51 301 001
200	753 150 819	3.153	186	116	11,9	2 51 301 001
225	753 150 820	4.441	205	123	13,4	2 51 301 001
250	753 150 821	6.012	217	130	14,8	2 51 301 002
280	753 150 822	7.489	230	140	16,6	2 51 301 002
315	753 150 823	10.123	250	150	18,7	2 51 301 002

53 05 10





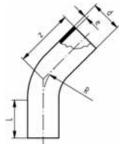
Bend 45° PE100 SDR11

- · Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
32	753 051 008	0.077	120	80	48	2,9
40	753 051 009	0.120	120	80	60	3,7
50	753 051 010	0.240	149	100	75	4,6
63	753 051 011	0.360	161	100	95	5,8
75	753 051 012	0.560	168	100	113	6,8
90	753 051 013	0.760	177	100	135	8,2
110	753 051 014	1.700	243	150	165	10,0
125	753 051 015	2.186	253	150	188	11,4
140	753 051 016	2.800	262	150	210	12,7
160	753 051 017	3.800	274	160	240	14,6
180	753 051 018	5.140	287	150	270	16,4
200	753 051 019	7.058	299	150	300	18,2
225	753 051 020	7.400	315	150	338	20,5
250	753 051 021	13.000	440	250	375	22,7
280	753 051 022	22.000	460	250	420	25,4
315	753 051 023	24.930	535	250	473	28,6
355	753 051 024	39.500	620	300	533	32,3
400	753 051 025	48.500	650	300	600	36,4
450	753 051 026	69.800	680	300	675	40,9
500	753 051 027	96.300	760	350	750	45,5
560	753 051 028	129.800	800	350	840	50,9
630	753 051 029	174.000	870	350	945	57,3

53 05 08





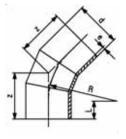
Bend 45° PE100 SDR17/17,6

- Long spigot version5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	Z [mm]	L [mm]	R [mm]	e [mm]
90	753 050 813	0.600	177	100	135	5,4
110	753 050 814	1.208	243	150	165	6,6
125	753 050 815	1.540	253	150	188	7,4
140	753 050 816	1.720	262	150	210	8,3
160	753 050 817	2.200	274	150	240	9,5
180	753 050 818	3.000	287	150	270	10,7
200	753 050 819	3.700	299	150	300	11,9
225	753 050 820	5.000	315	150	338	13,4
250	753 050 821	10.691	440	250	375	14,8
280	753 050 822	15.000	460	250	420	16,6
315	753 050 823	17.800	535	250	473	18,7
355	753 050 824	25.600	620	300	533	21,1
400	753 050 825	36.600	650	300	600	23,7
450	753 050 826	45.300	680	300	675	26,7
500	753 050 827	62.400	760	350	750	29,7
560	753 050 828	81.900	800	350	840	33,2
630	753 050 829	62.400	870	350	945	37,4

53 05 08





Bend 45° PE100 SDR17/17,6

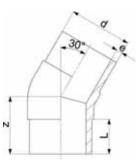
Model:

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
710	753 003 001	129.998	792	350	1065	42.1
800	753 003 002	176.165	847	350	1200	47.4
900	753 003 003	252.638	960	350	1350	53.3
1000	753 003 004	332.107	1022	400	1500	59.3

53 12 09





Elbow 30° PE100 SDR11

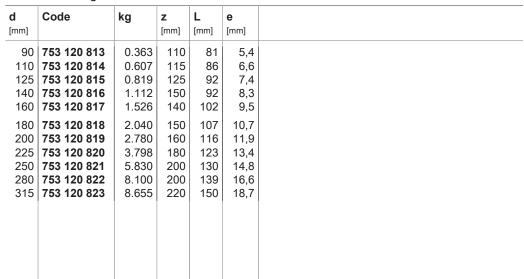
- Long spigot version
- 10 bar Gas / 16 bar Water
- · Welded design

d	Code	kg	z	L	е
[mm]			[mm]	[mm]	[mm]
32	753 120 908	0.530	70	54	3,0
40	753 120 909	0.530	80	57	3,7
50	753 120 910	0.121	80	63	4,6
63	753 120 911	0.207	80	65	5,8
75	753 120 912	0.311	90	72	6,8
90	753 120 913	0.540	100	81	8,2
110	753 120 914	0.840	105	86	10,0
125	753 120 915	1.174	115	92	11,4
140	753 120 916	1.760	135	92	12,7
160	753 120 917	2.155	130	102	14,6
180	753 120 918	2.911	140	107	16,4
200	753 120 919	3.892	150	116	18,2
225	753 120 920	5.332	165	123	20,5
250	753 120 921	7.307	190	130	22,7
280	753 120 922	10.600	200	139	25,4
315	753 120 923	12.775	200	150	28,6

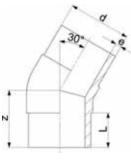
53 12 08

Elbow 30° PE100 SDR17

- · Long spigot version
- 5 bar Gas / 10 bar Water
- · Welded design

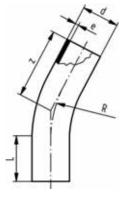






53 06 10





Bend 30° PE100 SDR11

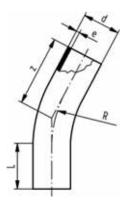
- Long spigot version10 bar Gas / 16 bar Watermade out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	Z [mm]	L [mm]	R [mm]	e [mm]	
32	753 061 008	0.077	113	80	48	2,9	
40	753 061 009	0.120	116	80	60	3,7	
50	753 061 010	0.200	140	100	75	4,6	
63	753 061 011	0.400	150	100	95	5,8	
75	753 061 012	0.520	155	100	113	6,8	
90	753 061 013	0.760	160	100	135	8,2	
110	753 061 014	1.689	219	150	165	10,0	
125	753 061 015	2.065	225	150	188	11,4	
140	753 061 016	2.200	231	150	210	12,7	
160	753 061 017	3.650	239	150	240	14,6	
180 200 225 250 280	753 061 019	4.782 5.777 6.300 13.100 16.300	247 255 266 385 400	150 150 150 250 250	270 300 338 375 420	16,4 18,2 20,5 22,7 25,4	
315	753 061 023	21.850	460	250	473	28,6	
355	753 061 024	34.900	540	300	533	32,3	
400	753 061 025	45.900	560	300	600	36,4	
450	753 061 026	60.200	580	300	675	40,9	
500	753 061 027	83.300	630	350	750	45,5	
560	753 061 028	108.600	680	350	840	50,9	
630	753 061 029	148.300	730	350	945	57,3	

53 06 08





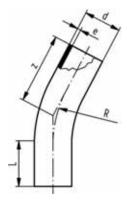


Bend 30° PE100 SDR17

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	Z [mm]	L [mm]	R [mm]	e [mm]
				,		
90	753 060 813	0.500	160	100	135	5,4
110	753 060 814	1.060	219	150	165	6,6
125	753 060 815	1.100	225	150	188	7,4
140	753 060 816	1.720	231	150	210	8,3
160	753 060 817	2.565	239	150	240	9,5
180	753 060 818	3.389	247	150	270	10,7
200		4.213	255	150	300	11,9
	753 060 820	7.540	266	150	338	13,4
250		11.600	385	250	375	14,8
280		12.800	400	250	420	16,6
	753 060 823	25.000	460	250	473	18,7
355		22.700		300	533	
			540			21,1
400	753 060 825	29.800	560	300	600	23,7
450		39.100	580	300	675	26,7
500	753 060 827	54.000	650	350	750	29,7
560	753 060 828	70.300	680	350	840	33,2
630	753 060 829	95.800	730	350	945	37,4



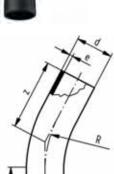


Bend 22° PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Watermade out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	Z [mm]	L [mm]	R [mm]	e [mm]	
32	753 081 008	0.077	113	80	48	2,9	9
40	753 081 009	0.120	116	80	60	3,7	
50	753 081 010	0.200	140	100	75	4,6	
63	753 081 011	0.400	150	100	95	5,8	
75	753 081 012	0.520	155	100	113	6,8	3
90	753 081 013	0.760	160	100	135	8,2	2
110	753 081 014	1.500	219	150	165	10,0	
125	753 081 015	2.000	225	150	188	11,4	
140	753 081 016	2.200	231	150	210	12,7	
160	753 081 017	3.300	239	150	240	14,6	ز
180	753 081 018	3.700	247	150	270	16,4	1
200	753 081 019	4.750	255	150	300	18,2	2
225	753 081 020	6.300	266	150	338	20,5	
250	753 081 021	14.015	385	250	375	22,7	
280	753 081 022	18.510	400	250	420	25,4	1
315	753 081 023	21.845	460	250	473	28,6	ò
355	753 081 024	34.900	540	300	533	32,3	
400	753 081 025	45.900	560	300	600	36,4	
450	753 081 026	60.200	580	300	675	40,9	
500	753 081 027	83.300	650	350	750	45,5	
560	753 081 028	108.600	680	350	840	50,9	
630	753 081 029	148.300	730	350	945	57,3	3



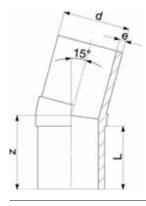


Bend 22° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d	Code	kg	z	L	R	е
[mm]			[mm]	[mm]	[mm]	[mm]
90	753 080 813	0.500	160	100	135	5.4
110	753 080 814	1.060	219	150	165	6.6
125	753 080 815	1.100	225	150	188	7.4
140	753 080 816	1.720	231	150	210	8.3
160	753 080 817	1.900	239	150	240	9.5
180	753 080 818	3.318	247	150	270	10.7
200	753 080 819	3.200	255	150	300	11.9
225	753 080 820	5.431	266	150	338	13.4
250	753 080 821	9.904	385	250	375	14.8
280	753 080 822	12.800	400	250	420	16.6
315	753 080 823	14.144	460	250	473	18.7
355	753 080 824	22.700	540	300	533	21.1
400	753 080 825	29.800	560	300	600	23.7
450	753 080 826	39.100	580	300	675	26.7
500	753 080 827	54.000	650	350	750	29.7
560	753 080 828	70.300	680	350	840	33.2
630	753 080 829	95.800	730	350	945	37.4

53 14 10

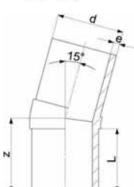


Elbow 15° type L PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Water
- Welded design

Code	kg	z	L	е
		[mm]	[mm]	[mm]
753 141 008	0.051	70	54	3.0
753 141 009	0.082	80	57	3.7
753 141 010	0.118	80	63	4.6
753 141 011	0.200	80	65	5.8
753 141 012	0.290	90	72	6.8
753 141 013	0.479	100	81	8.2
753 141 014	0.785	105	86	10.0
753 141 015	1.063	115	92	11.4
753 141 016	1.600	135	92	12.7
753 141 017	2.170	130	102	14.6
753 141 018	2.653	140	107	16.4
753 141 019	3.438	150	116	18.2
753 141 020	4.765	165	123	20.5
753 141 021	8.300	190	130	22.7
753 141 022	10.600	200	139	25.4
753 141 023	13.100	200	150	28.6
	753 141 008 753 141 009 753 141 010 753 141 011 753 141 012 753 141 013 753 141 014 753 141 015 753 141 016 753 141 017 753 141 018 753 141 019 753 141 020 753 141 021 753 141 021 753 141 022	753 141 008	753 141 008	[mm] [mm] 753 141 008



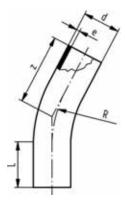


Elbow 15° PE100 SDR17/17,6

- Long spigot version5 bar Gas / 10 bar Water
- Welded design

d	Code	kg	z	L	е
[mm]		_	[mm]	[mm]	[mm]
90	753 140 813	0.337	100	81	5.4
110	753 140 814	0.551	105	86	6.6
	753 140 815	0.728	115	92	7.4
	753 140 816	0.720	135	92	8.3
160	753 140 817	1.364	130	102	9.5
180	753 140 818	2.040	140	107	10.7
200	753 140 819	2.371	150	116	11.9
225	753 140 820	3.335	165	123	13.4
250	753 140 821	5.830	190	130	14.8
280	753 140 822	8.100	195	139	16.6
315	753 140 823	7.528	200	150	18.7



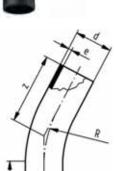


Bend 11° PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Watermade out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	Z [mm]	L [mm]	R [mm]	e [mm]	
32	753 091 008	0.077	113	80	48	2.9	
40	753 091 009	0.120	116	80	60	3.7	
50	753 091 010	0.200	140	100	75	4.6	
63	753 091 011	0.400	150	100	95	5.8	
75	753 091 012	0.520	155	100	113	6.8	
90	753 091 013	0.760	160	100	135	8.2	
110	753 091 014	1.500	219	150	165	10.0	
125	753 091 015	2.000	225	150	188	11.4	
140	753 091 016	2.200	231	150	210	12.7	
160	753 091 017	3.300	239	150	240	14.6	
180	753 091 018	3.700	247	150	270	16.4	
200	753 091 019	4.750	255	150	300	18.2	
225	753 091 020	7.773	266	150	338	20.5	
250	753 091 021	13.100	385	250	375	22.7	
280	753 091 022	16.300	400	250	420	25.4	
315	753 091 023	21.845	460	250	473	28.6	
355	753 091 024	34.900	540	300	533	32.3	
400	753 091 025	45.900	560	300	600	36.4	
450	753 091 026	60.200	580	300	675	40.9	
500	753 091 027	83.300	650	350	750	45.5	
560	753 091 028	108.600	680	350	840	50.9	
630	753 091 029	148.300	730	350	945	57.3	

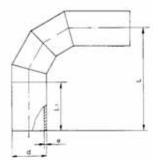




Bend 11° PE100 SDR17/17,6

- Long spigot version5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

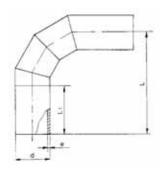
d	Code	kg	Z	L	R	е
[mm]			[mm]	[mm]	[mm]	[mm]
90	753 090 813	0.500	160	100	135	5.4
110	753 090 814	1.060	219	150	165	6.6
125	753 090 815	1.100	225	150	188	7.4
140	753 090 816	1.720	231	150	210	8.3
160	753 090 817	2.653	239	150	240	9.5
180	753 090 818	2.500	247	150	270	10.7
200	753 090 819	4.308	255	150	300	11.9
225	753 090 820	7.540	266	150	338	13.4
250	753 090 821	11.600	385	250	375	14.8
280	753 090 822	12.800	400	250	420	16.6
315	753 090 823	25.000	460	250	473	18.7
355	753 090 824	22.700	540	300	533	21.1
400	753 090 825	29.800	560	300	600	23.7
450	753 090 826	39.100	580	300	675	26.7
500	753 090 827	54.000	650	350	750	29.7
560	753 090 828	70.300	680	350	840	33.2
630	753 090 829	95.800	730	350	945	37.4



Bend 90° PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,8

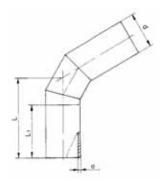
d	Code	L	L1	е
[mm]		[mm]	[mm]	[mm]
110	700 648 928	315	150	10,0
125	700 648 929	338	150	11,4
140	700 648 930	360	150	12,8
160	700 648 931	390	150	14,6
180	700 648 932	420	150	16,4
200	700 648 933	450	150	18,2
225	700 648 934	488	150	20,5
250	700 648 935	625	250	22,8
280	700 648 936	670	250	25,5
315	700 648 937	773	300	28,7
355	700 648 938	833	300	32,3
400	700 648 939	900	300	36,4
450	700 648 940	975	300	41,0
500	700 648 941	1100	350	45,5
560	700 648 942	1190	350	51,0
630	700 648 943	1295	350	57,3



Bend 90° PE100 S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	700 648 944	1.122	315	150	6,3
125	700 648 945	1.584	338	150	7,1
140	700 648 946	2.145	360	150	8,0
160	700 648 947	2.970	390	150	9,1
180	700 648 948	4.026	420	150	10,2
200	700 648 949	5.346	450	150	11,4
225	700 648 950	7.260	488	150	12,8
250	700 648 951	11.550	625	250	14,2
280	700 648 952	15.510	670	250	15,9
315	700 648 953	23.100	773	300	17,9
355	700 648 954	31.152	833	300	20,1
400	700 648 955	42.768	900	300	22,7
450	700 648 956	58.410	975	300	25,5
500	700 648 957	63.888	1100	350	28,3
560	700 648 958	85.140	1190	350	31,7
630	700 648 959	114.840	1295	350	35,7

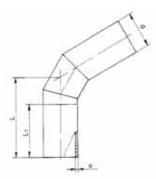


Bend 60° PE100 S5/SDR11

- For IR, butt- and electro fusion
 Reduction factor = 0,8

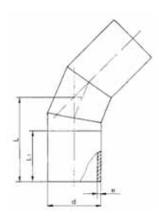
d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	700 648 960	1.377	245	150	10,0
125	700 648 961	1.944	258	150	11,4
140	700 648 962	2.633	271	150	12,8
160	700 648 963	3.645	288	150	14,6
180	700 648 964	4.941	305	150	16,4
200	700 648 965	6.561	323	150	18,2
225	700 648 966	8.910	345	150	20,5
250	700 648 967	14.175	466	250	22,8
280	700 648 968	19.035	492	250	25,5
315	700 648 969	28.350	576	300	28,7
355	700 648 970	38.232	608	300	32,3
400	700 648 971	52.488	646	300	36,4
450	700 648 972	71.685	689	300	41,0

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
500	700 648 973	78.408	783	350	45,5
560	700 648 974	104.490	835	350	51,0
630	700 648 975	140.940	896	350	57,3



Bend 60° PE100 S8/SDR17.6

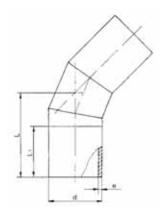
- For IR, butt- and electro fusion
- Reduction factor = 0,8



Bend 45° PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	700 648 992	1.115	218	150	10,0
125	700 648 993	1.575	228	150	11,4
140	700 648 994	2.132	237	150	12,8
160	700 648 995	2.952	249	150	14,6
180	700 648 996	4.002	262	150	16,4
200	700 648 997	5.314	274	150	18,2
225	700 648 998	7.217	290	150	20,5
250	700 648 999	11.482	412	250	22,8
280	700 649 000	15.418	424	250	25,5
315	700 649 001	22.964	498	300	28,7
355	700 649 002	30.968	520	300	32,3
400	700 649 003	42.515	548	300	36,4
450	700 649 004	58.065	580	300	41,0
500	700 649 005	63.510	665	350	45,5
560	700 649 006	84.637	698	350	51,0
630	700 649 007	114.161	741	350	57,3

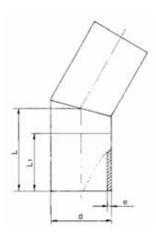


Bend 45° PE100 S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	
110	700 649 008	22.864	218	150	6,3	
125	700 649 009	31.226	228	150	7,1	
140	700 649 010	34.155	237	150	8,0	
160	700 649 011	2.200	249	150	9,1	
180	700 649 012	61.393	262	150	10,2	
200	700 649 013	0.736	274	150	11,4	
225	700 649 014	5.180	290	150	12,8	
250	700 649 015	8.990	412	250	14,2	
280	700 649 016	11.440	424	250	15,9	

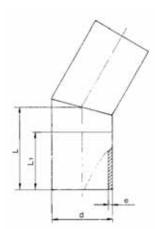
d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
315	700 649 017	21.400	498	300	17,9
355	700 649 018	3.508	520	300	20,1
400	700 649 019	29.810	548	300	22,7
450	700 649 020	7.578	580	300	25,5
500	700 649 021	10.176	665	350	28,3
560	700 649 022	15.156	698	350	31,7
630	700 649 023	20.439	741	350	35,7



Bend 30° PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,8

	-	0,0			
d	Code	kg	L	L1	е
[mm]			[mm]	[mm]	[mm]
110	700 649 024	1.280	194	150	10,0
125	700 649 025	8.326	200	150	11,4
140	700 649 026	2.150	206	150	12,8
180	700 649 028	3.830	222	150	16,4
200	700 649 029	30.831	230	150	18,2
225	700 649 030	6.650	241	150	20,5
250	700 649 031	46.057	350	250	22,8
280	700 649 032	61.377	362	250	25,5
315	700 649 033	82.788	428	300	28,7
355	700 649 034	0.993	443	300	32,3
400	700 649 035	1.401	461	300	36,4
450	700 649 036	1.898	481	300	41,0
500	700 649 037	2.628	551	350	45,5
560	700 649 038	3.562	575	350	51,0
630	700 649 039	4.730	603	350	57,3



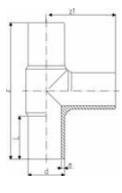
Bend 30° PE100 S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	700 649 040	0.840	194	150	6,3
125	700 649 041	3.144	200	150	7,1
140	700 649 042	1.340	206	150	8,0
160	700 649 043	1.930	214	150	9,1
180	700 649 044	2.490	222	150	10,2
200	700 649 045	13.490	230	150	11,4
225		4.320	241	150	12,8
250		5.495	350	250	14,2
280	700 649 048	7.380	362	250	15,9
315	700 649 049	14.530	428	300	17,9
355	700 649 050	14.822	443	300	20,1
400		20.349	461	300	22,7
450		27.791	481	300	25,5
500	700 649 053	30.398	551	350	28,3
560	700 649 054	40.509	575	350	31,7
630	700 649 055	54.640	603	350	35,7

53 20 10





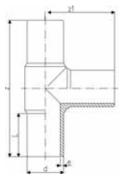
Tee 90° equal PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Water
- * With welded pipes
 * Segment welded and reinforced
 * No pressure reduction factor

d [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	e [mm]	PF	
20	753 201 006	0.038	150	75	52	3,0	2 51 301 001	
25	753 201 007	0.054	160	80	52	3,0	2 51 301 001	
32	753 201 008	0.077	170	85	54	3,0	2 51 301 001	
40	753 201 009	0.130	190	95	57	3,7	2 51 301 001	
50	753 201 010	0.214	210	105	63	4,6	2 51 301 001	
63	753 201 011	0.376	230	115	65	5,8	2 51 301 001	
75	753 201 012	0.599	264	132	72	6,8	2 51 301 001	
90	753 201 013	1.021	300	150	81	8,2	2 51 301 001	
110	753 201 014	1.612	330	165	86	10,0	2 51 301 001	
125	753 201 015	2.420	366	183	92	11,4	2 51 301 001	
140	753 201 016	3.090	393	193	92	12,7	2 51 301 001	
160	753 201 017	4.403	420	210	102	14,6	2 51 301 001	
180	753 201 018	6.014	460	230	107	16,4	2 51 301 001	
200	753 201 019	8.480	500	250	117	18,2	2 51 301 001	
225	753 201 020	11.507	540	270	122	20,5	2 51 301 001	
250	753 201 001	14.099	575	288	130	22,7	2 51 301 002	
280	753 200 902	18.670	615	308	139	25,4	2 51 301 002	
315	753 200 903	26.150	695	346	150	28,6	2 51 301 002	
355	753 200 904	39.800	818	410	165	32,3	2 51 301 008	
400	753 200 905	42.495	910	455	180	36,4	2 51 301 008	
450 500 * 560 * 630 * 710 * 800		77.300 101.000 153.300 205.500 318.698 409.142	970 1060 1510 1630 1720 1780	485 530 755 815 860 890	195 215 230 250 450 450	40,9 45,5 50,9 57,3 64,5 72,6	2 51 301 008 2 51 301 008 2 51 301 008 2 51 301 008 2 51 301 008 2 51 301 008	

53 20 08





Tee 90° equal PE100 SDR17/17,6

- Long spigot version5 bar Gas / 10 bar Water
- * Segment welded and reinforced
- * With welded pipes
- * No pressure reduction factor

The pressure reduction ractor									
d	Code	kg	z	z1	L	е	PF		
[mm]			[mm]	[mm]	[mm]	[mm]			
90	753 200 813	0.777	300	150	80	5,4	2 51 301 001		
110		1.231	330	165	86	6,6	2 51 301 001		
125		1.690	366	183	92	7,4	2 51 301 001		
140			396	196			2 51 301 001		
		2.202			92	8,3			
160	753 200 817	3.201	428	214	104	9,5	2 51 301 001		
180	753 200 818	4.287	460	230	105	10,7	2 51 301 001		
200	753 200 819	5.889	500	250	115	11,9	2 51 301 001		
225	753 200 820	7.886	540	270	122	13,4	2 51 301 001		
250	753 200 821	10.000	575	288	130	14,8	2 51 301 002		
280	753 200 802	13.350	615	308	139	16,6	2 51 301 002		
315	753 200 803	17.985	695	346	150	18,7	2 51 301 002		
355		25.850	818	410	165	21,1	2 51 301 008		
400		35.015	910	455	180	23,7	2 51 301 008		
450	l .	56.000	970	485	195	26,7	2 51 301 008		
500		71.000	1060	530	215	29,7	2 51 301 008		
* 560		99.200	1510	755	230	33,2	2 51 301 008		
* 630		132.700	1630	815	250	37,4	2 51 301 008		
* 710	753 201 920	219.870	1720	860	450	42,1	2 51 301 008		
* 800	753 201 921	281.495	1780	890	450	47,4	2 51 301 008		

53 20 08

Tee 90° equal PE100 SDR17/17,6

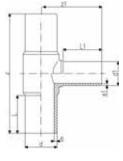
Model:

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Does not conform to pressure rating. Pressure reduction factor of 0.5
- 5 bar water

d [mm]	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]
710	753 202 810	158.180	1410	705	350	42.1
800	753 202 811	210.302	1500	750	350	47.4
900	753 202 812	302.118	1700	850	400	53.3
1000	753 202 813	457.054	2040	1020	520	59.3

53 20 10





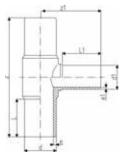
Tee 90° reduced moulded PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Water

	10 bai Cas / 10 bai Watei										
d [mm]	d1 [mm]	Code	kg	Z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]		
63	50	753 201 044	0.305	215	103	63	56	5.8	4.6		
75	32	753 201 045	0.519	256	108	70	46	6.8	2.9		
75	50	753 201 046	0.531	253	113	70	56	6.8	4.6		
75	63	753 201 047	0.554	255	117	70	63	6.8	5.8		
90	50	753 201 027	0.794	280	117	79	55	8.2	4.6		
90	63	753 201 029	0.775	280	123	79	63	8.2	5.8		
90	75	753 201 030	0.779	272	138	73	68	8.2	6.8		
110	63	753 201 028	1.409	320	147	87	63	10.0	5.8		
110	75	753 201 031	1.221	309	151	82	70	10.0	6.8		
110	90	753 201 032	1.275	320	158	86	79	10.0	8.2		
125	90	753 201 048	1.717	340	170	112	92	11.4	8.2		
125	110	753 201 033	1.909	341	170	90	83	11.4	10.0		
160	63	753 201 034	2.680	416	176	98	65	14.6	5.8		
160	75	753 201 035	2.676	343	180	98	74	14.6	6.8		
160	90	753 201 036	2.775	412	188	101	79	14.6	8.2		
160	110	753 201 037	3.300	412	195	101	82	14.6	10.0		
180	90	753 201 049	4.410	420	200	136	97	16.4	8.2		
180	110	753 201 050	4.379	430	206	130	101	16.4	10.0		
180	160	753 201 038	4.715	411	205	105	94	16.4	14.6		
200	63	753 201 073	7.300	500	190	122	63	18.2	5.8		
200	90	753 201 074	9.730	500	207	122	79	18.2	8.2		
200	110	753 201 075	7.120	500	215	122	82	18.2	10.0		
200	160	753 201 076	9.730	500	234	122	98	18.2	14.6		
225	75	753 201 039	9.880	555	215	120	70	20.5	6.8		
225	90	753 201 040	6.633	558	226	120	80	20.5	8.2		
225	110	753 201 041	10.010	558	235	120	82	20.5	10.0		
225	160	753 201 042	8.095	560	253	120	98	20.5	14.6		
225	180	753 201 043	9.375	560	280	120	105	20.5	16.4		
250	110	753 201 078	11.820	575	242	130	82	22.7	10.0		
250	160	753 201 079	12.302	575	261	127	98	22.7	14.6		
315	110	753 201 051	15.300	695	277	150	82	28.6	10.0		
315	160	753 201 052	22.998	695	296	150	102	28.6	14.6		
315	225	753 201 053	20.011	650	335	170	145	28.6	20.5		
315	250	753 201 054	24.243	695	325	150	130	28.6	22.7		

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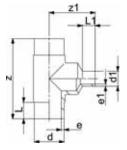
Tee 90° reduced, moulded PE100 SDR17/17,6

- Long spigot version5 bar Gas / 10 bar Water

	o sai oas / 10 sai vvaloi											
d	d1	Code	kg	Z	z1	L	L1	е	e1	e1		
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
90	50	753 201 827	0.630	275	117	79	55	5.4	3,0	3.0		
90	63	753 200 829	0.560	275	123	79	63	5.4	3,8	3.8		
90	75	753 200 830	0.593	272	139	74	71	5.4	4,5	4.5		
110	63	753 200 828	1.010	318	147	82	63	6.6	3,8	3.8		
110	75	753 200 831	0.891	315	152	84	70	6.6	4,5	4.5		
110	90	753 200 832	0.941	318	158	82	79	6.6	5,4	5.4		
125	110	753 200 833	1.399	334	168	84	83	7.4	6,6	6.6		
160	63	753 200 834	1.950	330	130	86	63	9.5	3,8	3.8		
160	75	753 200 835	1.932	343	180	98	74	9.5	4,5	4.5		
160	90	753 200 836	1.972	410	188	98	79	9.5	5,4	5.4		
160	110	753 200 837	2.716	410	195	98	82	9.5	6,6	6.6		
180	90	753 200 844	3.250	422	204	134	97	10.7	5,4	5.4		
180	160	753 200 838	3.557	411	205	105	94	10.7	9,5	9.5		
200	63	753 201 873	6.800	500	190	122	63	11.9	3,8	3.8		
200	90	753 201 874	6.900	500	207	122	79	11.9	5,4	5.4		
200	110	753 201 875	5.097	500	215	122	82	11.9	6,6	6.6		
200	160	753 201 876	7.400	500	234	122	98	11.9	9,5	9.5		
225	75	753 200 839	7.128	555	277	120	70	13.4	4,5	4.5		
225	90	753 200 840	4.732	555	226	127	80	13.4	5,4	5.4		
225	110	753 200 841	4.700	555	235	127	82	13.4	6,6	6.6		
225	160	753 200 842	5.922	555	253	127	98	13.4	9,5	9.5		
225	180	753 200 843	7.211	550	280	120	105	13.4	10,7	10.7		
250	110	753 201 878	9.400	575	242	130	82	14.8	6,6	6.6		
250	160	753 201 879	9.800	575	261	130	98	14.8	9,5	9.5		
315	110	753 200 851	15.621	695	277	150	82	18.7	6,6	6.6		
315	160	753 200 852	12.200	695	296	150	102	18.7	9,5	9.5		
315	225	753 200 853	14.869	650	335	170	145	18.7	13,4	13.4		
315	250	753 200 854	15.500	695	325	150	130	18.7	14,8	14.8		

53 20 10

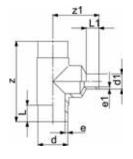




Tee 90° reduced with welded reducer

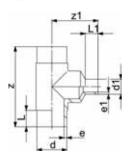
- PE 100 SDR 11 (ISO S5)10 bar Gas / 16 bar Water

d [mm]	d1 [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
25	20	753 201 002	0.053	160		52	52	3,0	3,0
32	20	753 201 003	0.094	170	105	54	52	3,0	3,0
32	25	753 201 004	0.098	170	110	54	52	3,0	3,0
40	20	753 201 005	0.124	190	120	57	52	3,7	3,0
40	25	753 201 069	0.160	190	120	57	52	3,7	3,0
40	32	753 201 070	0.160	190	120	57	52	3,7	3,0
50	20	753 201 072	0.252	210	140	63	52	4,6	3,0
50	25	753 201 077	0.260	210	130	63	52	4,6	3,0
50	32	753 201 080	0.207	210	130	63	53	4,6	3,0
50	40	753 201 081	0.224	210	130	63	57	4,6	3,7
63	32	753 201 082	0.359	230	140	65	53	5,8	3,0
63	40	753 201 116	0.480	230	145	65	57	5,8	3,7
75	40	753 201 084	0.603	264	180	72	57	6,8	3,7
125	63	753 201 085	2.359	366	225	92	61	11,4	5,8
125	75	753 201 086	2.434	366	235	92	72	11,4	6,8
140	75	753 201 087	3.038	396	230	92	70	12,7	6,8
140	90	753 201 089	3.092	396	235	92	79	12,7	8,2
140	110	753 201 090	3.600	396	240	92	82	12,7	10,0
140	125	753 201 091	4.170	396	240	92	90	12,7	11,4
160	125	753 201 092	4.544	420	265	102	92	14,6	11,4
160	140	753 201 093	5.895	420	270	102	96	14,6	12,7
180	125	753 201 094	6.111	460	285	107	92	16,4	11,4
180	140	753 201 095	6.317	460	295	107	110	16,4	12,7
200	125	753 201 096	8.424	500	295	117	92	18,2	11,4
200	140	753 201 097	10.570	500	310	117	110	18,2	12,7



d [mm]	d1 [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
200	180	753 201 098	9.031	500	310	117	110	18,2	16,4
225	125	753 201 098	11.260	540	320	122	92	20,5	11,4
225	140	753 201 099	1		335	122		20,5	
			14.574	540			110	· '	12,7
225	200	753 201 101	14.925	540	340	122	117	20,5	18,2
250	180	753 201 102	14.327	576	350	130	105	22,7	16,4
250	200	753 201 103	19.220	576	360	130	112	22,7	18,2
250	225	753 201 104	15.240	576	390	130	120	22,7	20,5
280	200	753 201 105	24.520	616	410	139	112	25,4	18,2
280	225	753 201 106	24.755	616	420	139	120	25,4	20,5
280	250	753 201 107	25.210	616	420	139	130	25,4	22,7
315	200	753 201 108	33.950	690	470	150	134	28,6	18,2
315	280	753 201 109	34.950	690	480	150	139	28,6	25,4
355	250	753 201 110	48.900	818	530	165	130	32,3	22,7
355	280	753 201 111	49.300	818	480	165	139	32,3	25,4
355	315	753 201 112	49.690	818	480	165	150	32,3	28,6
400	280	753 201 113	52.915	910	530	180	139	36,4	25,4
400	315	753 201 114	53.625	910	580	180	150	36,4	28,6
400	355	753 201 115	54.075	910	675	180	165	36,4	32,3





Tee 90° reduced with welded reducer PE100 SDR17/17,6

• 5 bar Gas / 10 bar Water

d	d1	Code	ka	_	z1	L	L1	е	e1	
u [mm]	[mm]	Code	kg	Z [mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
	[]			[i.i.i.i	[]	[i.i.i.i	[]	[]	[]	
125	63	753 200 801	2.115	366	215	92	61	7.4	3.8	
125	75	753 200 810	1.806	366	235	92	72	7.4	4.5	
125	90	753 200 811	1.712	366	235	92	80	7.4	5.4	
140	75	753 200 812	2.820	396	240	92	70	8.3	4.5	
140	90	753 200 822	2.211	396	240	92	78	8.3	5.4	
140	110	753 200 823	2.266	396	235	92	82	8.3	6.6	
140	125	753 200 824	2.317	396	240	92	87	8.3	7.4	
160	125	753 200 825	3.311	428	265	104	90	9.5	5.4	
160	140	753 200 826	3.416	428	280	104	96	9.5	8.3	
180	110	753 200 827	4.410	460	285	105	92	10.7	6.6	
180	125	753 200 845	4.460	460	285	105	90	10.7	7.4	
180	140	753 200 846	4.483	460	305	105	110	10.7	8.3	
200	125	753 200 847	5.886	500	310	115	92	11.9	7.4	
200	140	753 200 848	7.200	500	315	115	110	11.9	8.3	
200	180	753 200 849	6.900	500	315	115	110	11.9	10.7	
225	125	753 200 850	7.937	540	320	122	92	13.4	7.4	
225	140	753 200 855	8.780	540	345	122	110	13.4	8.3	
225	200	753 200 856	9.064	540	335	122	115	13.4	11.9	
250	180	753 200 857	15.000	576	340	130	105	14.8	10.7	
250	200	753 200 858	15.440	576	350	130	112	14.8	11.9	
250	225	753 200 859	15.620	576	370	130	120	14.8	13.4	
280	200	753 200 869	19.200	616	400	139	112	16.6	11.9	
280	225	753 200 861	19.500	616	400	139	120	16.6	13.4	
280	250	753 200 862	20.120	616	400	139	130	16.6	14.8	
315	200	753 200 863	18.700	690	480	150	134	18.7	11.9	
315	280	753 200 864	26.940	690	480	150	139	18.7	16.6	
355	250	753 200 864	35.770	818	480	165	139	21.1	14.8	
355	280	753 200 866	36.330	818	480	165	130	21.1	16.6	
355	315	753 200 867	37.740	818	490	165	150	21.1	18.7	
400	280	753 200 867	48.330	910	540	180	139	23.7	16.6	
400	315	753 200 869	48.880	910	580	180	150	23.7	18.7	
400	355	753 200 809	50.020	910	675	180	165	23.7	21.1	
700	000	. 33 200 070	30.020	0.10	0/3	100	100	20.1	21.1	

53 25 10



Tee 45° equal PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Water

53 25 10

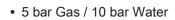


z

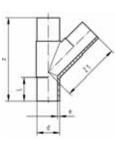
z1 L

kg





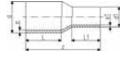
Code



[mm]			[mm]	[mm]	[mm]	[mm]	
	753 251 063 753 251 064	0.800 1.400	368 395	234 260	79 82	5,4 6,6	

е

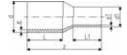
53 90 10



Reducer PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Water

	d	d1	as / 16 bar W Code	kg	z	L	L1	е	e1	PF
32										
40	32	20	753 901 042	0.027	120	54	52	3,0	3,0	2 51 301 001
40					1					
Sol 20 753 901 055 0.064 149 63 52 4.6 3.0 2.51 301 001										
Solidary Solidary		1		l	ı				3,0	
Solidary Solidary				I						
63	50	40	753 901 052	0.079	139	63	57	4,6	3,7	2 51 301 001
75					1		1			
T5 50 753 901 064 0.188 170 72 63 6.8 4.6 2.51 301 001				l			l			
90 50 753 901 072 0.289 190 81 63 8.2 4.6 2.51 301 001 90 75 753 901 070 0.351 190 81 70 8.2 6.8 2.51 301 001 110 63 753 901 078 0.471 205 86 65 10.0 5.8 2.51 301 001 110 75 753 901 076 0.501 205 86 70 10.0 6.8 2.51 301 001 110 90 753 901 076 0.549 205 86 81 10.0 8.2 2.51 301 001 1125 63 753 901 082 0.667 214 87 63 11.4 5.8 2.51 301 001 1125 75 753 901 082 0.667 214 87 63 11.4 5.8 2.51 301 001 1125 75 753 901 082 0.667 210 92 72 11.4 6.8 2.51 301 001 1125 75 753 901 086 0.910 230 110 70 12.7 6.8 2.51 301 001 1125 110 753 901 080 0.775 212 92 86 11.4 10.0 2.51 301 001 1140 75 753 901 086 0.910 230 110 70 12.7 6.8 2.51 301 001 1140 110 753 901 087 0.954 230 110 70 12.7 6.8 2.51 301 001 1140 110 753 901 085 1.078 235 110 79 12.7 8.2 2.51 301 001 1140 110 753 901 088 1.064 234 110 88 12.7 10.0 2.51 301 001 1140 110 753 901 088 1.064 234 110 88 12.7 10.0 2.51 301 001 1140 110 753 901 088 1.164 244 120 79 14.6 8.2 2.51 301 001 1160 125 753 901 088 1.164 244 120 79 14.6 8.2 2.51 301 001 1160 125 753 901 089 1.239 244 102 86 14.6 10.0 2.51 301 001 1160 140 753 901 032 1.222 260 120 110 14.6 12.7 2.51 301 001 1160 140 753 901 032 1.222 260 120 110 14.6 12.7 2.51 301 001 1160 140 753 901 032 1.222 260 120 110 14.6 12.7 2.51 301 001 1160 140 753 901 031 1.279 245 105 79 16.4 12.7 2.51 301 001 1160 140 753 901 031 1.279 245 105 79 16.4 12.7 2.51 301 001 1160 140 753 901 031 1.279 245 105 79 16.4 12.7 2.51 301 001 1160 140 753 901 031 1.270 125 120 110 14.6 12.7 2.51 301 001 1160 140 753 901 031 1.289 225 107 120 110 14.6 12.7 2.51 301 001 1160 140 753 901 031 1.290 244 102 86 14.6 10.0 2.51 301 001 1160 140 753 901 031 1.290 245 105 79 16.4 12.7 2.51 301 001 1160 140 753 901 031 1.290 245 105 79 16.4 12.7 2.51 301 001 1160 140 753 901 031 1.290 245 105 79 16.4 12.7 2.51 301 001 1160 140 753 901 031 1.290 245 105 22 2.7 2.51 301 001 1160 140 753 901 031 1.290 2.25 100 753 901 031 1.290 2.25 100 100 12.25 12.7 2.51 301 001 1160 12.5 12.5 12.7 2.51 301 001 1160 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	75	50	753 901 064	0.188	170	72	63	6,8	4,6	2 51 301 001
90 63 753 901 071 0.316 190 81 65 8.2 58.2 51 301 001 110 63 753 901 078 0.471 205 86 65 10.0 5.8 251 301 001 1110 63 753 901 077 0.501 205 86 65 10.0 5.8 251 301 001 110 90 753 901 076 0.549 205 86 81 10.0 8.2 251 301 001 1110 90 753 901 076 0.549 205 86 81 10.0 8.2 251 301 001 1125 75 753 901 083 0.667 214 87 63 11.4 5.8 251 301 001 1125 75 753 901 083 0.667 214 87 63 11.4 5.8 251 301 001 1125 75 753 901 080 0.677 214 87 63 11.4 5.8 251 301 001 1125 75 753 901 080 0.775 212 92 81 11.4 6.8 251 301 001 1125 10 753 901 080 0.775 212 92 86 11.4 10.0 251 301 001 1125 10 753 901 080 0.775 212 92 86 11.4 10.0 251 301 001 1140 110 753 901 084 0.977 234 110 70 12.7 6.8 251 301 001 1140 110 753 901 084 0.977 234 110 88 12.7 10.0 251 301 001 1140 110 753 901 085 1.078 235 110 90 12.7 11.4 251 301 001 1140 110 753 901 085 1.078 235 110 90 12.7 11.4 251 301 001 1140 110 753 901 085 1.078 235 110 90 12.7 11.4 251 301 001 1140 110 753 901 089 1.333 245 102 92 14.6 11.4 251 301 001 1160 140 753 901 089 1.333 245 102 92 14.6 11.4 251 301 001 1160 140 753 901 080 1.239 244 102 86 14.6 10.0 251 301 001 1160 140 753 901 073 1.507 245 105 79 16.4 8.2 251 301 001 1180 10 753 901 074 1.833 270 105 82 16.4 11.4 251 301 001 1180 10 753 901 074 1.833 270 105 82 16.4 11.4 251 301 001 1180 10 753 901 075 1.976 270 120 110 16.4 12.7 251 301 001 1180 10 753 901 074 1.833 270 105 82 16.4 11.4 251 301 001 1180 10 753 901 075 1.976 270 120 110 16.4 12.7 251 301 001 1180 10 753 901 075 1.976 270 120 110 18.2 12.7 251 301 001 1180 10 753 901 074 1.833 270 105 82 16.4 11.4 251 301 001 1180 10 753 901 075 1.976 270 120 110 18.2 12.7 251 301 001 1180 10 753 901 075 1.976 270 120 110 18.2 12.7 251 301 001 1180 10 753 901 075 1.976 270 120 110 18.2 12.7 251 301 001 1180 10 753 901 075 1.976 270 120 110 12.4 1.6 251 301 001 1180 10 753 901 095 1.2891 279 122 122 22.5 130 122 127 251 301 001 1180 10 753 901 005 1.2891 279 122 122 122 122 122 122 123 124 122 123 124 124 124 124 125 1301 001 1125 130 130 100 1125 130 130 100 1125 130 130 100 122 130 13		1								
110		1			ı		1			
110	110	63	753 901 078	0.471	205	86	65	10,0	5,8	2 51 301 001
125					1		1			
125 90 753 901 081 0.683 212 92 81 11,4 8,2 2 51 301 001 125 110 753 901 086 0.910 230 110 70 12,7 6,8 2 51 301 001 140 75 753 901 086 0.910 230 110 70 12,7 6,8 2 51 301 001 140 101 753 901 084 0.977 234 110 88 12,7 10,0 2 51 301 001 140 125 753 901 085 1.078 235 110 90 12,7 11,4 251 301 001 160 90 753 901 088 1.164 244 120 79 14,6 8,2 2 51 301 001 160 125 753 901 089 1.333 245 102 92 14,6 11,4 251 301 001 160 125 753 901 089 1.333 245 102 92 14,6 11,4 251 301 001 160 140 753 901 089 1.333 245 102 92 14,6 11,4 251 301 001 180 100 753 901 074 1.833 270 105 82 16,4 10,0 2 51 301 001 180 125 753 901 074 1.833 270 105 82 16,4 11,4 251 301 001 180 140 753 901 075 1.976 270 120 110 16,4 12,7 2 51 301 001 180 140 753 901 075 1.976 270 120 110 16,4 12,7 2 51 301 001 180 140 753 901 075 1.976 270 120 110 16,4 12,7 2 51 301 001 180 160 753 901 033 1.968 255 107 102 16,4 14,6 2 51 301 001 200 140 753 901 032 2.422 265 117 107 18,2 16,4 2 51 301 001 200 180 753 901 034 2.724 265 117 102 18,2 14,6 2 51 301 001 225 140 753 901 057 2.900 295 130 110 20,5 12,7 2 51 301 001 225 180 753 901 094 3.538 280 122 117 20,5 18,2 2 51 301 001 225 180 753 901 008 2.385 300 130 100 22,7 14,6 2 51 301 002 225 180 753 901 008 3.244 280 122 117 20,5 18,2 2 51 301 002 225 180 753 901 008 3.284 280 122 117 20,5 18,2 2 51 301 002 225 200 753 901 008 3.836 380 130 100 22,7 14,6 2 51 301 002 225 250 753 901 008 3.836 380 130 120 22,7 14,6 2 51 301 002 236 250 753 901 008 6.850 333 140 112 25,4 18,2 2 51 301 0					l		1			
140	125	90	753 901 081	0.683	212	92	81	11,4	8,2	2 51 301 001
140 90 753 901 087 0.954 230 110 79 12.7 8.2 2.51 301 001 140 110 753 901 084 0.977 234 110 88 12.7 10.0 2.51 301 001 140 125 753 901 085 1.078 235 110 90 12.7 11.4 2.51 301 001 160 10 753 901 088 1.164 244 120 79 14.6 8.2 2.51 301 001 160 125 753 901 089 1.333 245 102 92 14.6 11.4 2.51 301 001 160 140 753 901 073 1.507 245 105 79 16.4 8.2 2.51 301 001 180 90 753 901 073 1.507 245 105 79 16.4 8.2 2.51 301 001 180 10 753 901 074 1.833 270 105 82 16.4 10.0 2.51 301 001 180 125 753 901 075 1.976 270 120 110 16.4 12.7 2.51 301 001 180 140 753 901 075 1.976 270 120 110 16.4 12.7 2.51 301 001 180 160 753 901 066 2.326 275 120 110 18.2 12.7 2.51 301 001 180 160 753 901 066 2.326 275 120 110 18.2 12.7 2.51 301 001 18.0 140 753 901 066 2.326 275 120 110 18.2 12.7 2.51 301 001 18.0 140 753 901 066 2.326 275 120 110 18.2 12.7 2.51 301 001 18.2 14.6 2.51 301 001 18.2 14.6 753 901 067 2.900 295 130 110 2.05 14.6 2.51 301 001 18.2 14.6 2.51 301 001 18.2 14.6 15.7				l	1					
140	140	90	753 901 087	0.954	230	110	1	12,7	8,2	2 51 301 001
160	140			1.078	235	110	1	12,7	11,4	2 51 301 001
160				I			1			
180 90 753 901 073 1.507 245 105 79 16,4 8,2 251 301 001 180 110 753 901 074 1.833 270 105 82 16,4 10,0 251 301 001 180 125 753 901 075 1.976 270 120 110 16,4 11,4 251 301 001 180 160 753 901 075 1.976 270 120 110 16,4 12,7 251 301 001 200 140 753 901 033 1.968 255 107 102 16,4 14,6 251 301 001 200 160 753 901 092 2.422 265 117 102 18,2 14,6 251 301 001 225 140 753 901 096 2.891 <	160	125		1.333	1	102	92	14,6	11,4	2 51 301 001
180 125 753 901 091 1.723 258 107 92 16,4 11,4 2 51 301 001 180 140 753 901 075 1.976 270 120 110 16,4 12,7 2 51 301 001 180 160 753 901 033 1.968 255 107 102 16,4 14,6 2 51 301 001 200 140 753 901 066 2.326 275 120 110 18,2 12,7 2 51 301 001 200 160 753 901 092 2.422 265 117 102 18,2 14,6 2 51 301 001 200 180 753 901 084 2.724 265 117 107 18,2 14,6 2 51 301 001 225 140 753 901 067 2.990 295 130 110 20,5 12,7 2 51 301 001 225 180 753 901 095 3.244 280 122 107 20,5 14,6 2 51 301 001 225 200 753 901 094 3.538 280 122 117 20,5 18,2					I		1			
180 140 753 901 075 1.976 270 120 110 16,4 12,7 2 51 301 001 180 160 753 901 033 1.968 255 107 102 16,4 14,6 2 51 301 001 200 140 753 901 066 2.326 275 120 110 18,2 12,7 2 51 301 001 200 160 753 901 034 2.724 265 117 102 18,2 14,6 2 51 301 001 225 140 753 901 034 2.724 265 117 107 18,2 16,4 2 51 301 001 225 140 753 901 067 2.900 295 130 110 20,5 12,7 2 51 301 001 225 160 753 901 095 3.244 280 122 107 20,5 16,4 2 51 301 001 225 200 753 901 094 3.538 280 122 117 20,5 16,4 2 51 301 001 250 180 753 901 008 4.299 295 130 105 22,7 14,6		1								
200 140 753 901 066 2.326 275 120 110 18,2 12,7 2 51 301 001 200 160 753 901 092 2.422 265 117 102 18,2 14,6 2 51 301 001 200 180 753 901 034 2.724 265 117 107 18,2 16,4 2 51 301 001 225 140 753 901 067 2.900 295 130 110 20,5 12,7 2 51 301 001 225 160 753 901 096 2.891 279 122 102 20,5 14,6 2 51 301 001 225 180 753 901 095 3.244 280 122 107 20,5 16,4 2 51 301 001 225 200 753 901 094 3.538 280 122 117 20,5 18,2 2 51 301 001 250 160 753 901 000 2.385 300 130 100 22,7 14,6 2 51 301 002 250 200 753 901 001 4.766 315 130 112 22,7 18,2	180			1.976	270		110	16,4	12,7	2 51 301 001
200 180 753 901 034 2.724 265 117 107 18,2 16,4 2 51 301 001 225 140 753 901 067 2.900 295 130 110 20,5 12,7 2 51 301 001 225 160 753 901 096 2.891 279 122 102 20,5 14,6 2 51 301 001 225 180 753 901 095 3.244 280 122 107 20,5 16,4 2 51 301 001 250 160 753 901 004 3.538 280 122 117 20,5 18,2 2 51 301 001 250 160 753 901 000 2.385 300 130 100 22,7 14,6 2 51 301 002 250 180 753 901 068 4.299 295 130 105 22,7 16,4 2 51 301 002 250 225 753 901 002 2.385 332 130 112 22,7 18,2 2 51 301 002 280 225 753 901 008 6.850 333 140 112 25,4 18,2		1			ı			18,2		
225 140 753 901 067 2.900 295 130 110 20,5 12,7 2 51 301 001 225 160 753 901 096 2.891 279 122 102 20,5 14,6 2 51 301 001 225 180 753 901 095 3.244 280 122 107 20,5 16,4 2 51 301 001 225 200 753 901 094 3.538 280 122 117 20,5 18,2 2 51 301 001 250 160 753 901 000 2.385 300 130 100 22,7 14,6 2 51 301 002 250 180 753 901 068 4.299 295 130 105 22,7 16,4 2 51 301 002 250 200 753 901 001 4.766 315 130 112 22,7 16,4 2 51 301 002 250 225 753 901 002 2.385 332 130 120 22,7 20,5 2 51 301 002 280 25		1			1		1		,	
225 180 753 901 095 3.244 280 122 107 20,5 16,4 2 51 301 001 225 200 753 901 094 3.538 280 122 117 20,5 18,2 2 51 301 001 250 160 753 901 000 2.385 300 130 100 22,7 14,6 2 51 301 002 250 180 753 901 068 4.299 295 130 105 22,7 16,4 2 51 301 002 250 200 753 901 001 4.766 315 130 112 22,7 18,2 2 51 301 002 250 225 753 901 002 2.385 332 130 120 22,7 20,5 2 51 301 002 280 200 753 901 098 6.850 333 140 112 25,4 18,2 2 51 301 002 280 225 753 901 099 6.112 335 140 120 25,4 20,5 2 51 301 002 280 250 753 901 003 2.385 340 140 130 25,4 22,7 2 51 301 002 315 200 753 901 004 7.522 380 180 134 28,6 18,2 2 51 301 0	225	140		2.900	295	130	110	20,5	12,7	2 51 301 001
250 160 753 901 000 2.385 300 130 100 22,7 14,6 2 51 301 002 250 180 753 901 068 4.299 295 130 105 22,7 16,4 2 51 301 002 250 200 753 901 001 4.766 315 130 112 22,7 18,2 2 51 301 002 250 225 753 901 002 2.385 332 130 120 22,7 20,5 2 51 301 002 280 200 753 901 098 6.850 333 140 112 25,4 18,2 2 51 301 002 280 225 753 901 099 6.112 335 140 120 25,4 20,5 2 51 301 002 280 250 753 901 003 2.385 340 140 130 25,4 22,7 2 51 301 002 315 200 753 901 004 7.522 380 180 134 28,6 18,2 2 51 301 002 315 250 753 901 097 7.790 365 150 120 28,6 20,5	225			3.244	ı	122	1	20,5	16,4	
250 180 753 901 068 4.299 295 130 105 22,7 16,4 2 51 301 002 250 200 753 901 001 4.766 315 130 112 22,7 18,2 2 51 301 002 250 225 753 901 002 2.385 332 130 120 22,7 20,5 2 51 301 002 280 200 753 901 098 6.850 333 140 112 25,4 18,2 2 51 301 002 280 225 753 901 099 6.112 335 140 120 25,4 20,5 2 51 301 002 280 250 753 901 003 2.385 340 140 130 25,4 22,7 2 51 301 002 315 200 753 901 004 7.522 380 180 134 28,6 18,2 2 51 301 002 315 250 753 901 097 7.790 365 150 120 28,6 20,5 2 51 301 002 315 280 753 901 015 8.800 365 150 130 28,6 25,4		1								
250 225 753 901 002 2.385 332 130 120 22,7 20,5 2 51 301 002 280 200 753 901 098 6.850 333 140 112 25,4 18,2 2 51 301 002 280 225 753 901 099 6.112 335 140 120 25,4 20,5 2 51 301 002 280 250 753 901 003 2.385 340 140 130 25,4 22,7 2 51 301 002 315 200 753 901 004 7.522 380 180 134 28,6 18,2 2 51 301 002 315 225 753 901 097 7.790 365 150 120 28,6 20,5 2 51 301 002 315 250 753 901 005 8.360 365 150 130 28,6 22,7 2 51 301 002 315 280 753 901 012 8.800 365 150 139 28,6 25,4 2 51 301 002 355 250 753 901 013 9.100 390 165 130 32,3 22,7	250	1	753 901 068	4.299	295	130	105	22,7	16,4	2 51 301 002
280 225 753 901 099 6.112 335 140 120 25,4 20,5 2 51 301 002 280 250 753 901 003 2.385 340 140 130 25,4 22,7 2 51 301 002 315 200 753 901 004 7.522 380 180 134 28,6 18,2 2 51 301 002 315 225 753 901 097 7.790 365 150 120 28,6 20,5 2 51 301 002 315 250 753 901 005 8.360 365 150 130 28,6 22,7 2 51 301 002 315 280 753 901 012 8.800 365 150 139 28,6 25,4 2 51 301 002 355 250 753 901 013 9.100 390 165 130 32,3 22,7 2 51 301 008 355 280 753 901 014 9.500 390 165 139 32,3 25,4 2 51 301 008 355 315 753 901 015 9.900 390 165 150 32,3 28,6		1		l	ı		1			
280 250 753 901 003 2.385 340 140 130 25,4 22,7 2 51 301 002 315 200 753 901 004 7.522 380 180 134 28,6 18,2 2 51 301 002 315 225 753 901 097 7.790 365 150 120 28,6 20,5 2 51 301 002 315 250 753 901 005 8.360 365 150 130 28,6 22,7 2 51 301 002 315 280 753 901 012 8.800 365 150 139 28,6 25,4 2 51 301 002 355 250 753 901 013 9.100 390 165 130 32,3 22,7 2 51 301 008 355 280 753 901 014 9.500 390 165 139 32,3 25,4 2 51 301 008 355 315 753 901 015 9.900 390 165 150 32,3 28,6 2 51 301 008 400 280 753 901 016 10.420 415 180 139 36,4 25,4		1		l	ı		1			
315 225 753 901 097 7.790 365 150 120 28,6 20,5 2 51 301 002 315 250 753 901 005 8.360 365 150 130 28,6 22,7 2 51 301 002 315 280 753 901 012 8.800 365 150 139 28,6 25,4 2 51 301 002 355 250 753 901 013 9.100 390 165 130 32,3 22,7 2 51 301 008 355 280 753 901 014 9.500 390 165 139 32,3 25,4 2 51 301 008 355 315 753 901 015 9.900 390 165 150 32,3 28,6 2 51 301 008 400 280 753 901 016 10.420 415 180 139 36,4 25,4 2 51 301 008	280	250	753 901 003	2.385	340	140	130	25,4	22,7	2 51 301 002
315 280 753 901 012 8.800 365 150 139 28,6 25,4 2 51 301 002 355 250 753 901 013 9.100 390 165 130 32,3 22,7 2 51 301 008 355 280 753 901 014 9.500 390 165 139 32,3 25,4 2 51 301 008 355 315 753 901 015 9.900 390 165 150 32,3 28,6 2 51 301 008 400 280 753 901 016 10.420 415 180 139 36,4 25,4 2 51 301 008					ı			28,6	20,5	
355 250 753 901 013 9.100 390 165 130 32,3 22,7 2 51 301 008 355 280 753 901 014 9.500 390 165 139 32,3 25,4 2 51 301 008 355 315 753 901 015 9.900 390 165 150 32,3 28,6 2 51 301 008 400 280 753 901 016 10.420 415 180 139 36,4 25,4 2 51 301 008				l	ı					
355 315 753 901 015 9.900 390 165 150 32,3 28,6 2 51 301 008 400 280 753 901 016 10.420 415 180 139 36,4 25,4 2 51 301 008	355	250	753 901 013	9.100	390	165	130	32,3	22,7	2 51 301 008
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					1		1		,	

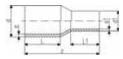


d [mm]	d1 [mm]	Code	kg	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	PF
400	355	753 901 018	11.600	420	180	165	36,4	32,3	2 51 301 008
450	280	753 901 019	16.200	389	195	139	40.9	25,4	2 51 301 008
450	315	753 901 020	16.700	390	195	150	40.9	28,6	2 51 301 008
450	355	753 901 022	17.500	393	195	164	40,9	32,3	2 51 301 008
450	400	753 901 024	18.500	395	195	179	40,9	36,4	2 51 301 008
500	315	753 901 025	21.900	422	212	150	45,5	28,6	2 51 301 008
500	355	753 901 026	22.600	424	212	164	45,5	32,3	2 51 301 008
500	400	753 901 027	23.600	426	212	179	45,5	36,4	2 51 301 008
500	450	753 901 029	25.100	428	212	195	45,5	40,9	2 51 301 008
560	355	753 901 030	30.100	459	230	164	50,9	32,3	2 51 301 008
560	400	753 901 039	31.000	461	230	179	50,9	36,4	2 51 301 008
560	450	753 901 040	32.400	463	230	195	50,9	40,9	2 51 301 008
560	500	753 901 043	34.100	466	230	212	50,9	45,5	2 51 301 008
630	400	753 901 044	41.900	502	250	179	57,3	36,4	2 51 301 008
630	450	753 901 045	43.100	503	250	195	57,3	40,9	2 51 301 008
630	500	753 901 049	44.700	506	250	212	57,3	45,5	2 51 301 008
630	560	753 901 050	46.800	506	250	230	57,3	50,9	2 51 301 008

53 90 08

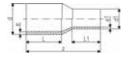
Reducer PE100 SDR17/17,6





- Long spigot version5 bar Gas / 10 bar Water

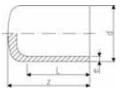
 5 bar 	• 5 bar Gas / 10 bar Water											
d [mm]	d1 [mm]	Code	kg	Z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	PF			
90	63	753 900 872	0.224	182	79	70	5,4	3,8	2 51 301 001			
90	75	753 900 870	0.234	185	79	70	5,4	4,5	2 51 301 001			
110	63	753 900 877	0.326	185	82	63	6,6	3,8	2 51 301 001			
110	90	753 900 876	0.333	205	85	80	6,6	5,4	2 51 301 001			
125	63	753 900 882	0.610	200	87	63	7,4	3,8	2 51 301 001			
125	90	753 900 881	0.461	215	90	80	7,4	5,4	2 51 301 001			
125	110	753 900 880	0.507	215	90	85	7,4	6,6	2 51 301 001			
140	75	753 900 886	0.560	230	112	70	8,3	4,5	2 51 301 001			
140	90	753 900 887	0.642	230	112	79	8,3	5,4	2 51 301 001			
140	110	753 900 884	0.715	230	112	82	8,3	6,6	2 51 301 001			
140	125	753 900 885	0.754	235	115	87	8,3	7,4	2 51 301 001			
160	90	753 900 888	0.752	248	120	85	9,5	5,4	2 51 301 001			
160	110	753 900 890	0.930	245	100	85	9,5	6,6	2 51 301 001			
160	125	753 900 889	0.930	245	100	90	9,5	7,4	2 51 301 001			
160	140	753 900 831	0.995	260	120	110	9,5	8,3	2 51 301 001			
180	90	753 900 873	1.010	237	105	79	10,7	5,4	2 51 301 001			
180	110	753 900 874	1.600	270	120	92	10,7	6,6	2 51 301 001			
180	125	753 900 891	1.165	255	105	90	10,7	7,4	2 51 301 001			
180	140	753 900 875	1.720	270	120	110	10,7	8,3	2 51 301 001			
180	160	753 900 832	2.100	255	105	100	10,7	9,5	2 51 301 001			
200	140	753 900 866	1.800	275	120	110	11,9	8,3	2 51 301 001			
200	160	753 900 892	1.664	265	115	100	11,9	9,5	2 51 301 001			
200	180	753 900 893	2.580	265	115	105	11,9	10,7	2 51 301 001			
225	140	753 900 867	2.021	280	120	100	13,4	8,3	2 51 301 001			
225	160	753 900 896	2.020	280	120	100	13,4	9,5	2 51 301 001			
225	180	753 900 895	2.240	280	120	105	13,4	10,7	2 51 301 001			
225	200	753 900 894	2.237	280	120	115	13,4	11,9	2 51 301 001			
250	160	753 900 800	2.850	290	130	100	14,8	9,5	2 51 301 002			
250	180	753 900 868	3.100	295	130	105	14,8	10,7	2 51 301 002			
250	200	753 900 801	3.210	302	130	112	14,8	11,9	2 51 301 002			
250	225	753 900 802	2.385	332	162	120	14,8	13,4	2 51 301 002			
280	200	753 900 898	3.800	333	140	112	16,6	11,9	2 51 301 002			
280	225	753 900 899	4.100	335	140	120	16,6	13,4	2 51 301 002			
280	250	753 900 803	4.352	340	140	130	16,6	14,8	2 51 301 002			
315	200	753 900 804	5.390	380	180	134	18,7	11,9	2 51 301 002			
315	225	753 900 807	6.200	365	150	120	18,7	13,4	2 51 301 002			
315	250	753 900 805	6.420	365	150	130	18,7	14,8	2 51 301 002			
315	280	753 900 806	5.940	365	150	140	18,7	16,6	2 51 301 002			
355	250	753 900 808	7.082	390	165	130	21,1	14,8	2 51 301 008			
355	280	753 900 809	6.728	390	165	140	21,1	16,6	2 51 301 008			
355	315	753 900 810	7.240	390	165	150	21,1	18,7	2 51 301 008			
400	280	753 900 811	7.930	415	180	140	23,7	16,6	2 51 301 008			
400	315	753 900 812	9.949	415	180	150	23,7	18,7	2 51 301 008			
400	355	753 900 813	9.620	420	180	165	23,7	21,1	2 51 301 008			
450	280	753 900 814	11.500	389	195	140	26,7	16,6	2 51 301 008			
450	315	753 900 815	11.805	390	195	150	26,7	18,7	2 51 301 008			
450	355	753 900 816	11.900	393	195	164	26,7	21,1	2 51 301 008			
450	400	753 900 817	12.964	395	195	179	26,7	23,7	2 51 301 008			
500	315	753 900 818	15.500	422	212	150	29,7	18,7	2 51 301 008			
500	355	753 900 819	15.700	424	212	164	29,7	21,1	2 51 301 008			
500	400	753 900 820	16.200	426	212	179	29,7	23,7	2 51 301 008			
500	450	753 900 821	17.000	428	212	195	29,7	26,7	2 51 301 008			
560	355	753 900 822	21.400	459	230	164	33,2	21,1	2 51 301 008			
560	400	753 900 823	21.700	461	230	179	33,2	23,7	2 51 301 008			
560	450	753 900 824	22.300	463	230	195	33,2	26,7	2 51 301 008			
560	500	753 900 825	23.200	466	230	212	33,2	29,7	2 51 301 008			
630	400	753 900 826	29.700	502	250	179	37,4	23,7	2 51 301 008			
630	450	753 900 827	30.100	503	250	195	37,4	26,7	2 51 301 008			
630	500	753 900 828	30.800	506	250	212	37,4	29,7	2 51 301 008			
630	560	753 900 829	31.900	506	250	230	37,4	33,3	2 51 301 008			
710 710	500 560	753 900 833 753 900 834	58.796 60.578	790 770	300 300	300 300	42,1 42,1	29,7 33,2				



d	d1	Code	kg	z	L	L1	е	e1	PF
[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	
710	630	753 900 835	62.448	740	300	300	42,1	37,4	2 51 301 008
800	560	753 900 836	75.842	800	300	300	47,4	33,2	2 51 301 008
800	630	753 900 837	78.255	780	300	300	47,4	37,4	2 51 301 008
800	710	753 900 838	80.504	750	300	300	47,4	42,1	2 51 301 008
900	630	753 900 839	99.282	820	300	300	53,3	37,4	2 51 301 008
900	710	753 900 840	100.908	790	300	300	53,3	42,1	2 51 301 008
900	800	753 900 841	103.578	760	300	300	53,3	47,4	2 51 301 008
1000	710	753 900 842	124.232	820	300	300	59,3	42,1	2 51 301 008
1000	800	753 900 843	125.277	780	300	300	59,3	47,4	2 51 301 008
1000	900	753 900 844	126.638	740	300	300	59,3	53,3	2 51 301 008

53 96 10





Cap PE100 SDR11

- Long spigot version10 bar Gas / 16 bar Water

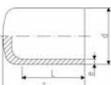
Note:

* Fabricated fitting made from pipe

d [mm]	Code	kg	z [mm]	L [mm]	e [mm]	PF
20	753 961 006	0.010	52	52	3,0	2 51 301 001
25	753 961 007	0.015	52	52	3,0	2 51 301 001
32	753 961 008	0.020	54	54	3,0	2 51 301 001
40	753 961 009	0.033	57	57	3,7	2 51 301 001
50	753 961 010	0.054	63	63	4,6	2 51 301 001
63	753 961 011	0.086	65	65	5,8	2 51 301 001
75	753 961 012	0.146	80	72	6,8	2 51 301 001
90	753 961 013	0.240	90	81	8,2	2 51 301 001
110		0.373	98	86	10,0	2 51 301 001
125	753 961 015	0.546	105	92	11,4	2 51 301 001
140	753 961 016	0.727	136	92	12,7	2 51 301 001
160	753 961 017	1.034	120	102	14,6	2 51 301 001
180	753 961 018	1.351	128	107	16,4	2 51 301 001
200	753 961 019	1.845	138	115	18,2	2 51 301 001
225	753 961 020	2.514	148	122	20,5	2 51 301 001
250	753 961 021	3.927	205	130	22,7	2 51 301 002
280	753 960 922	8.045	235	139	25,4	2 51 301 002
315	753 960 923	6.861	255	150	28,6	2 51 301 002
355	753 960 924	9.780	280	165	32,3	2 51 301 008
400	753 960 925	13.370	310	180	36,4	2 51 301 008
* 450		20.800	275	195	40,9	2 51 301 008
* 500	753 960 927	28.400	297	212	45,5	2 51 301 008
	753 960 928	39.100	325	230	50,9	2 51 301 008
* 630	753 960 929	59.700	355	250	57,3	2 51 301 008

53 96 08



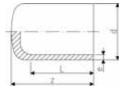


Cap PE100 SDR17/17,6

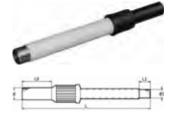
- Long spigot version
- 5 bar Gas / 10 bar Water

* Fabricated fitting made from pipe

d [mm]	Code	kg	Z [mm]	L [mm]	e [mm]	PF
50	753 960 810	0.036	70	55	3,0	2 51 301 001
63	753 960 811	0.058	82	63	3,8	2 51 301 001
75	753 960 812	0.105	92	70	4,5	2 51 301 001
90	753 960 813	0.214	90	81	5,4	2 51 301 001
110	753 960 814	0.272	98	86	6,6	2 51 301 001
125	753 960 815	0.487	105	92	7,4	2 51 301 001
140	753 960 816	0.481	136	92	8,3	2 51 301 001
160	753 960 817	0.920	120	102	9,5	2 51 301 001
180	753 960 818	1.216	128	107	10,7	2 51 301 001
200	753 960 819	1.687	138	115	11,9	2 51 301 001
225	753 960 820	2.265	148	122	13,4	2 51 301 001
250	753 960 821	2.547	205	130	14,8	2 51 301 002



d [mm]	Code	kg	Z [mm]	L [mm]	e [mm]	PF	
280	753 960 822	3.523	235	139	16,6	2 51 301 002	
315	753 960 823	4.758	255	150	18,7	2 51 301 002	
355	753 960 824	6.510	280	165	21,1	2 51 301 008	
400 * 450 * 500 * 560	753 960 825 753 960 826 753 960 827 753 960 828	9.347 17.798 21.400 29.400	310 265 287 310	180 195 212 230	23,7 26,7 29,7 33,2	2 51 301 008 2 51 301 008 2 51 301 008 2 51 301 008 2 51 301 008	
* 630	753 960 829	41.400	340	190	37,4	2 51 301 008	
* 710	753 960 830	53.950	310	190	42,1	2 51 301 008	
* 800	753 960 831	73.281	320	190	47,4	2 51 301 008	
* 900	753 960 832	98.923	330	190	53,5	2 51 301 008	
* 1000	753 960 833	123.925	340	190	59,3	2 51 301 008	



Transition fittings PE/steel

- PE 100 SDR 11 (ISO S5)6 bar Gas / 16 bar Water
- Electrofusion weldable
- Steel pipe acc. to EN 10208-1, PE coated for corrosion resistance
- * Steel pipe without plastic shroud

d	d1	Code	kg	d	L	L1	L2
u [mm]	[inch]	Code	Λy	[mm]	[mm]	[mm]	[mm]
* 20	1/2		0.450	20	427	35	41
25	3/4	775 641 507	0.658	25	462	35	41
32	1	775 641 510	0.988	32	462	35	44
40	1 1/4	775 641 514	1.208	40	470	35	49
50	1 ½	775 641 518	1.355	50	475	35	55
63	2	775 641 524	2.011	63	480	35	63
75	2 ½	775 641 632	2.983	75	545	35	70
90	3	775 641 636	3.762	90	562	45	79
110	3	775 641 640	4.381	110	580	45	82
110	4	775 641 641	6.633	110	580	45	82
125	4	775 641 645	6.833	125	584	45	87
160	6	775 641 655	12.406	160	607	45	98
180	6	775 641 659	11.935	180	605	45	105
200	8	775 642 664	19.647	200	615	45	112
225	8	775 642 669	20.154	225	620	45	120
250	8	775 642 665	21.354	250	640	45	129
250	10	775 642 666	30.000	250	645	45	129
280	10	775 642 673	31.000	280	637	45	139
315	12	775 642 672	35.000	315	730	45	150
355	12	775 642 675	49.000	355	732	45	164
400	16	775 642 678	94.000	400	770	45	179

Accesories and Spare parts

Spare parts ball valves Spare parts butterfly valves Spare parts diaphragm valves new generation Spare parts diaphragm valves	490 490 517 527
Spare parts butterfly valves Spare parts diaphragm valves new generation	517 527
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Pipe Clips

KLIP-IT pipe clip type 061H PP metric

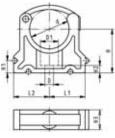
Model

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- · Minimum order quantity: standard packagings SP
- d16 d63: height designed for Ball Valve Type 546 und 543
- * d16 to d32 without bracket

d [mm]	Code	D [mm]	D1 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	HoH +/- 2mm [mm]	sc	
* 16	167 061 035	6	11	14	17	27	10	6	16	17.0	M5	
* 20	167 061 036	6	11	17	19	27	10	6	16	21.4	M5	
* 25	167 061 037	6	11	19	22	30	10	6	16	26.9	M5	
* 32	167 061 038	6	11	24	27	36	10	6	16	36.7	M5	
40	167 061 039	7	14	34	34	44	10	7	22	44.4	M6	
50	167 061 040	7	14	37	37	51	10	7	22	52.3	M6	
63	167 061 041	9	17	45	45	64	10	10	25	66.7	M8	







KLIP-IT Pipe Clips Type 061, PP metric

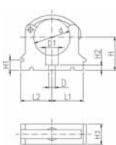
Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- d16 d63: Height designed for Ball Valve Type 546 and 543
- Minimum order quantity: standard packagings SP

d	d	Code	D	D1	L1	L2	Н	H1	H2	Н3	sc
[mm]	[inch]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
* 10		167 061 003	5	8	11	14	20	10	6	12	M4
* 12		167 061 004	5	8	11	14	21	10	6	12	M5
* 16		167 061 035	6	11	14	17	27	10	6	16	M5
* 20		167 061 036	6	11	17	19	27	10	6	16	M5
* 25		167 061 037	6	11	19	22	30	10	6	16	M5
* 32		167 061 038	6	11	24	27	36	10	6	16	M5
40		167 061 039	7	14	34	34	44	10	7	22	M6
50		167 061 040	7	14	37	37	51	10	7	22	M6
63		167 061 041	9	17	45	45	64	10	10	25	M8
75	2 ½	167 061 012	9	17	52	52	58	10	10	25	M8
90	3	167 061 013	9	17	65	65	65	10	10	28	M8
110	4	167 061 014	9	17	79	79	75	10	10	28	M8
125		167 061 015	9	17	88	88	90	10	10	32	M8
140	5	167 061 016	9	17	98	98	110	10	10	32	M8
160		167 061 017	9	17	109	109	108	10	10	32	M8







KLIP-IT spacer type 061 PP

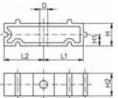
Model:

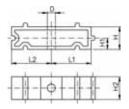
- For pipe clips Type 061/061H, PP black, UV resistant
- · Minimum order quantity: standard packaging SP

d [mm]	Inch [inch]	Code	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	HoH +/- 2mm [mm]	sc	
10 - 12	1/8 - 1/4	167 061 153	5	11	14	20	10	12	1.0	M4	
16	3/8	167 061 155	6	14	17	20	10	16	17.0	M5	
20	1/2	167 061 156	6	17	19	20	10	16	21.4	M5	
25	3/4	167 061 157	6	19	22	20	10	16	26.9	M5	
32	1	167 061 158	6	24	27	20	10	16	36.7	M5	









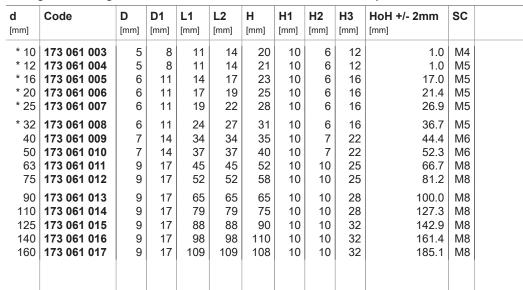
d [mm]	Inch [inch]	Code	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	HoH +/- 2mm [mm]	sc	
40	1 1/4	167 061 159	7	34	34	20	10	22	44.4	M6	
50	1 1/2	167 061 160	7	37	37	20	10	22	52.3	M6	
63	2	167 061 161	9	45	45	20	10	25	66.7	M8	
75	2 ½	167 061 162	9	52	52	20	10	25	81.2	M8	
90	3	167 061 163	9	65	65	20	10	28	100.0	M8	
110	4	167 061 164	9	79	79	20	10	28	127.3	M8	
125	4 1/2	167 061 165	9	88	88	20	10	32	142.9	M8	
140	5	167 061 166	9	98	98	20	10	32	161.4	M8	
160	6	167 061 167	9	109	109	20	10	32	185.1	M8	



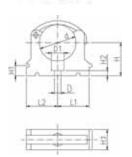
KLIP-IT pipe clip type 061 PE metric

Model:

- Material: Clip PE and safety clip PP black, bolts galvanized
- · Minimum order quantity: standard packaging SP
- Height not designed for ball valve 546 and 543. Please use spacer 73 06 11.







73 06 11

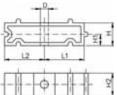
KLIP-IT spacer type 061 PE

Model:

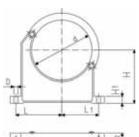
- For pipe clips Type 061, PE black, UV resistant
- · Minimum order quantity: standard packaging SP

d	Inch	Code	D	L1	L2	Н	H1	H2	sc
[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
	1/8-1/4	173 061 15	3 5	11	14	20	10	12	M4
16	3/8	173 061 15	5 6	14	17	20	10	16	M5
20	1/2	173 061 15	6 6	17	19	20	10	16	M5
25	3/4	173 061 15	7 6	19	22	20	10	16	M5
32	1	173 061 15	8 6	24	27	20	10	16	M5
40	11/4	173 061 15	9 7	34	34	20	10	22	M6
50	11/2	173 061 16	0 7	37	37	20	10	22	M6
63	2	173 061 16	1 9	45	45	20	10	25	M8
75	21/2	173 061 16	2 9	52	52	20	10	25	M8
90	3	173 061 16	3 9	65	65	20	10	28	M8
110	4	173 061 16	4 9	79	79	20	10	28	M8
125	41/2	173 061 16	5 9	88	88	20	10	32	M8
140	5	173 061 16	6 9	98	98	20	10	32	M8
160	6	173 061 16	7 9	109	109	20	10	32	M8









Pipe clip type 060 PP metric

Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- Accidental opening of the safety clip is not possible
- Minimum order quantity: standard packaging SP or gross packaging GP
- · Clip and safety clip are not assembled in the packaging.
- · Pipes with flanges can be installed directly

d [mm]	d [inch]	Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	H2 [mm]	sc	
		40= 000 000	_		7.4	405	4.5	00		
90	3	167 060 038	9	89	71	105	15	33	M 8	
110		167 060 039	9	94	80	115	15	33	M 8	
125		167 060 040	11	116	91	130	20	35	M10	
140	5	167 060 041	11	121	98	130	20	35	M10	
160		167 060 042	11	131	107	148	20	35	M10	
180		167 060 043	11	143	115	163	20	35	M10	
200		167 060 019	13	152	120	175	25	39	M12	
225		167 060 020	13	165	132	175	25	39	M12	
250		167 060 021	13	183	143	200	25	39	M12	
280		167 060 022	13	198	156	200	25	39	M12	
315		167 060 023	13	219	172	225	25	39	M12	
355		167 060 024	17	275	209	258	30	50	M16	
400		167 060 025	17	300	228	288	30	50	M16	

Spare parts ball valves

Spare parts ball valve type 546





Central part

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 486 151	161 486 163	163 481 251	163 481 263	169 480 751
20	1/2	15	161 486 151	161 486 163	163 481 251	163 481 263	169 480 751
25	3/4	20	161 486 152	161 486 164	163 481 252	163 481 264	169 480 752
32	1	25	161 486 153	161 486 165	163 481 253	163 481 265	169 480 753
40	1 1/4	32	161 486 154	161 486 166	163 481 254	163 481 266	169 480 754
50	1 1/2	40	161 486 155	161 486 167	163 481 255	163 481 267	169 480 755
63	2	50	161 486 156	161 486 168	163 481 256	163 481 268	169 480 756
75	2 ½	65	161 486 157	161 486 169	163 481 257	163 481 269	169 480 757
90	3	80	161 486 158	161 486 170	163 481 258	163 481 270	169 480 758
110	4	100	161 486 159	161 486 171	163 481 259	163 481 271	169 480 759

d	Inch	DN	PP-H EPDM	PP-H FPM	PVDF FPM	
[mm]		[mm]	Code	Code	Code	
16	3/8	10	167 482 876	167 482 888	175 482 963	
20	1/2	15	167 482 876	167 482 888	175 482 963	
25	3/4	20	167 482 877	167 482 889	175 482 964	
32	1	25	167 482 878	167 482 890	175 482 965	
40	1 1/4	32	167 482 879	167 482 891	175 482 966	
50	1 ½	40	167 482 880	167 482 892	175 482 967	
63	2	50	167 482 881	167 482 893	175 482 968	
75	2 ½	65	167 482 882	167 482 894	175 482 969	
90	3	80	167 482 883	167 482 895	175 482 970	
110	4	100	167 482 884	167 482 896	175 482 971	



Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d	Inch	DN	PVC-U EPDM	PVC-U FPM	PVC-C EPDM	PVC-C FPM	ABS EPDM
[mm]		[mm]	Code	Code	Code	Code	Code
16	3/8	10	161 486 375	161 486 385	163 481 375	163 481 385	169 480 900
20	1/2	15	161 486 375	161 486 385	163 481 375	163 481 385	169 480 900
25	3/4	20	161 486 376	161 486 386	163 481 376	163 481 386	169 480 901
32	1	25	161 486 377	161 486 387	163 481 377	163 481 387	169 480 902
40	1 1/4	32	161 486 378	161 486 388	163 481 378	163 481 388	169 480 903
50	1 ½	40	161 486 379	161 486 389	163 481 379	163 481 389	169 480 904
63	2	50	161 486 380	161 486 390	163 481 380	163 481 390	169 480 905
75	2 ½	65	161 486 381	161 486 391	163 481 381	163 481 391	169 480 906
90	3	80	161 486 382	161 486 392	163 481 382	163 481 392	169 480 907
110	4	100	161 486 383	161 486 393	163 481 383	163 481 393	169 480 908

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	3/8	10	167 484 125	167 484 135	175 483 275	
20	1/2	15	167 484 125	167 484 135	175 483 275	
25	3/4	20	167 484 126	167 484 136	175 483 276	
32	1	25	167 484 127	167 484 137	175 483 277	
40	1 1/4	32	167 484 128	167 484 138	175 483 278	
50	1 ½	40	167 484 129	167 484 139	175 483 279	
63	2	50	167 484 130	167 484 140	175 483 280	
75	2 ½	65	167 484 131	167 484 141	175 483 281	
90	3	80	167 484 132	167 484 142	175 483 282	
110	4	100	167 484 133	167 484 143	175 483 283	











Lever

d [mm]	Inch	DN [mm]	Standard lever red Code	Standard lever black Code	Multifunctional lever Code	
			Godo	0000	Codo	
16	3/8	10	167 484 088	167 484 076	167 484 100	
20	1/2	15	167 484 088	167 484 076	167 484 100	
25	3/4	20	167 484 089	167 484 077	167 484 101	
32	1	25	167 484 090	167 484 078	167 484 102	
40	1 1/4	32	167 484 091	167 484 079	167 484 103	
50	1 ½	40	167 484 092	167 484 080	167 484 104	
63	2	50	167 484 093	167 484 081	167 484 105	
75	2 ½	65	167 484 094	167 484 082	161 486 689	
90	3	80	167 484 095	167 484 083	161 486 690	
110	4	100	167 484 096	167 484 084	161 486 691	

Face seal

Model:

• Face seal no. 10

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	748 410 059	749 410 059
20	1/2	15	748 410 059	749 410 059
25	3/4	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 1/4	32	748 410 062	749 410 062
50	1 ½	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
75	2 1/2	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254



Seal set

Model:

• Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 486 400	161 486 410
20	1/2	15	161 486 400	161 486 410
25	3/4	20	161 486 401	161 486 411
32	1	25	161 486 402	161 486 412
40	1 1/4	32	161 486 403	161 486 413
50	1 ½	40	161 486 404	161 486 414
63	2	50	161 486 405	161 486 415
75	2 ½	65	161 486 406	161 486 416
90	3	80	161 486 407	161 486 417
110	4	100	161 486 408	161 486 418

Spare parts metering ball valve type 523 Central part

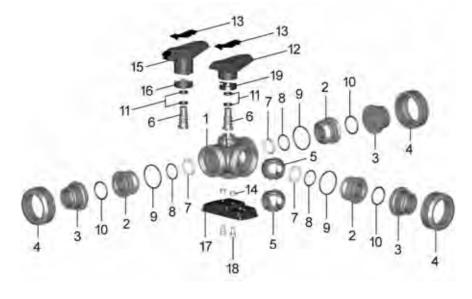


Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- · Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, ball-, backing-, body-, faceand stem seal, standard lever and threaded inserts stainless steel

d [mm]	Inch	 PVC-U EPDM Code	PVC-U FPM Code	PP-H EPDM Code	PP-H FPM Code	
16 20				167 485 371 167 485 373		

Spare parts ball valve type 543 horizontal



Central part L-port

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202
20	1/2	15	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202
25	3/4	20	161 488 003	161 488 013	163 481 903	163 481 913	169 481 203
32	1	25	161 488 004	161 488 014	163 481 904	163 481 914	169 481 204
40	1 1/4	32	161 488 005	161 488 015	163 481 905	163 481 915	169 481 205
50	1 1/2	40	161 488 006	161 488 016	163 481 906	163 481 916	169 481 206
63	2	50	161 488 007	161 488 017	163 481 907	163 481 917	169 481 207

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 484 802	167 484 812	175 483 602
20	1/2	15	167 484 802	167 484 812	175 483 602
25	3/4	20	167 484 803	167 484 813	175 483 603
32	1	25	167 484 804	167 484 814	175 483 604
40	1 1/4	32	167 484 805	167 484 815	175 483 605
50	1 1/2	40	167 484 806	167 484 816	175 483 606
63	2	50	167 484 807	167 484 817	175 483 607



Central part T-port

Model:

- · Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
16	3/8	10	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212	
20	1/2	15	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212	
25	3/4	20	161 488 023	161 488 033	163 481 923	163 481 933	169 481 213	
32	1	25	161 488 024	161 488 034	163 481 924	163 481 934	169 481 214	
40	1 1/4	32	161 488 025	161 488 035	163 481 925	163 481 935	169 481 215	
50	1 1/2	40	161 488 026	161 488 036	163 481 926	163 481 936	169 481 216	
63	2	50	161 488 027	161 488 037	163 481 927	163 481 937	169 481 217	

d	Inch	DN	PP-H EPDM	PP-H FPM	PVDF FPM
[mm]		[mm]	Code	Code	Code
16	3/8	10	167 484 822	167 484 832	175 483 612
20	1/2	15	167 484 822	167 484 832	175 483 612
25	3/4	20	167 484 823	167 484 833	175 483 613
32	1	25	167 484 824	167 484 834	175 483 614
40	1 1/4	32	167 484 825	167 484 835	175 483 615
50	1 1/2	40	167 484 826	167 484 836	175 483 616
63	2	50	167 484 827	167 484 837	175 483 617
	Ī	1	1		1



Ball set L-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 488 162	161 488 172	163 481 982	163 481 992	169 481 282
20	1/2	15	161 488 162	161 488 172	163 481 982	163 481 992	169 481 282
25	3/4	20	161 488 163	161 488 173	163 481 983	163 481 993	169 481 283
32	1	25	161 488 164	161 488 174	163 481 984	163 481 994	169 481 284
40	1 1/4	32	161 488 165	161 488 175	163 481 985	163 481 995	169 481 285
50	1 1/2	40	161 488 166	161 488 176	163 481 986	163 481 996	169 481 286
63	2	50	161 488 167	161 488 177	163 481 987	163 481 997	169 481 287

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 484 882	167 484 892	175 483 642
20	1/2	15	167 484 882	167 484 892	175 483 642
25	3/4	20	167 484 883	167 484 893	175 483 643
32	1	25	167 484 884	167 484 894	175 483 644
40	1 1/4	32	167 484 885	167 484 895	175 483 645
50	1 ½	40	167 484 886	167 484 896	175 483 646
63	2	50	167 484 887	167 484 897	175 483 647



Ball set T-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 488 182	161 488 192	163 482 002	163 482 012	169 481 292
20	1/2	15	161 488 182	161 488 192	163 482 002	163 482 012	169 481 292
25	3/4	20	161 488 183	161 488 193	163 482 003	163 482 013	169 481 293
32	1	25	161 488 184	161 488 194	163 482 004	163 482 014	169 481 294
40	1 1/4	32	161 488 185	161 488 195	163 482 005	163 482 015	169 481 295
50	1 1/2	40	161 488 186	161 488 196	163 482 006	163 482 016	169 481 296
63	2	50	161 488 187	161 488 197	163 482 007	163 482 017	169 481 297

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	3/8	10	167 484 902	167 484 912	175 483 652	
20	1/2	15	167 484 902	167 484 912	175 483 652	
25	3/4	20	167 484 903	167 484 913	175 483 653	
32	1	25	167 484 904	167 484 914	175 483 654	
40	1 1/4	32	167 484 905	167 484 915	175 483 655	
50	1 1/2	40	167 484 906	167 484 916	175 483 656	
63	2	50	167 484 907	167 484 917	175 483 657	



Lever

d [mm]	Inch	DN [mm]	Standard lever L- port red Code	Standard lever L- port black Code	Standard lever T- port red Code	
16	3/8	10	167 484 488	167 484 376	167 484 588	
20	1/2	15	167 484 488	167 484 376	167 484 588	
25	3/4	20	167 484 489	167 484 377	167 484 589	
32	1	25	167 484 490	167 484 378	167 484 590	
40	1 1/4	32	167 484 491	167 484 379	167 484 591	
50	1 1/2	40	167 484 492	167 484 380	167 484 592	
63	2	50	167 484 493	167 484 381	167 484 593	
d [mm]	Inch	DN [mm]	Standard lever T- port black Code	Multifunctional- lever L-port red Code	Multifunctional- lever T-port red Code	
16	3/8	10	167 484 576	167 484 442	167 484 542	
20	1/2	15	167 484 576	167 484 442	167 484 542	
25	3/4	20	167 484 577	167 484 443	167 484 543	
32	1	25	167 484 578	167 484 444	167 484 544	
40	1 1/4	32	167 484 579	167 484 445	167 484 545	
40						
50	1 1/2	40	167 484 580	167 484 446	167 484 546	



Face seal

Model:

• Face seal no. 10

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8		748 410 059	749 410 059
20	1/2	15	748 410 059	749 410 059
25	3/4	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 1/4	32	748 410 062	749 410 062
50	1 ½	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231



Seal set

Model:

• Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 488 242	161 488 248
20	1/2	15	161 488 242	161 488 248
25	3/4	20	161 488 243	161 488 249
32	1	25	161 488 244	161 488 250
40	1 1/4	32	161 488 245	161 488 251
50	1 1/2	40	161 488 246	161 488 252
63	2	50	161 488 247	161 488 253



Turn limiter 90°

d	Inch	DN	Code
[mm]		[mm]	
16	3/8	10	167 482 479
20	1/2	15	167 482 479
25	3/4	20	167 482 480
32	1	25	167 482 480
40	1 1/4	32	167 482 481
50	1 ½	40	167 482 481
63	2	50	167 482 482

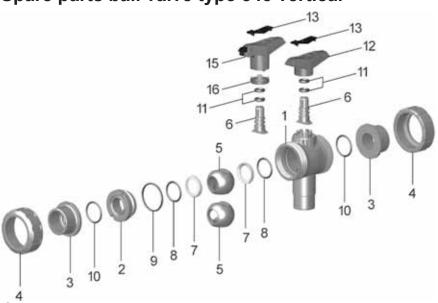
Assembly kit

Model:

- Intermediate element for ball valve type 543 horizontal and electric or pneumatic actuators EA21; PA11/21
- · Including screws and position indicator for actuators

d [mm]	Inch [inch]	DN [mm]	Code
16 - 20	3/6 _ 1/2	10 - 15	167 484 941
25 - 32		_	167 484 942
40 - 50	1 1/4 - 1 1/2	32 - 40	167 484 943
63	2	50	167 484 944

Spare parts ball valve type 543 vertical





Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11) and standard lever (12)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code
16	3/8	10	161 488 041	161 488 051	169 481 221
20	3/8	15	161 488 042	161 488 052	169 481 222
25	3/4	20	161 488 043	161 488 053	169 481 223
32	1	25	161 488 044	161 488 054	169 481 224
40	1 1/4	32	161 488 045	161 488 055	169 481 225
50	1 ½	40	161 488 046	161 488 056	169 481 226
63	2	50	161 488 047	161 488 057	169 481 227



Central part diverter ball

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11) and standard lever (12)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code
16	3/8	10	161 488 061	161 488 071	169 481 231
20	1/2	15	161 488 062	161 488 072	169 481 232
25	3/4	20	161 488 063	161 488 073	169 481 233
32	1	25	161 488 064	161 488 074	169 481 234
40	1 1/4	32	161 488 065	161 488 075	169 481 235
50	1 1/2	40	161 488 066	161 488 076	169 481 236
63	2	50	161 488 067	161 488 077	169 481 237





Ball set L-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code
16	3/8	10	161 488 202	161 488 212	169 481 302
20	1/2	15	161 488 202	161 488 212	169 481 302
25	3/4	20	161 488 203	161 488 213	169 481 303
32	1	25	161 488 204	161 488 214	169 481 304
40	1 1/4	32	161 488 205	161 488 215	169 481 305
50	1 1/2	40	161 488 206	161 488 216	169 481 306
63	2	50	161 488 207	161 488 217	169 481 307



Ball set T-Port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code
16	3/8	10	161 488 222	161 488 232	169 481 312
20	1/2	15	161 488 222	161 488 232	169 481 312
25	3/4	20	161 488 223	161 488 233	169 481 313
32	1	25	161 488 224	161 488 234	169 481 314
40	1 1/4	32	161 488 225	161 488 235	169 481 315
50	1 1/2	40	161 488 226	161 488 236	169 481 316
63	2	50	161 488 227	161 488 237	169 481 317



Lever

d [mm]	Inch	DN [mm]	Standard lever L- port red Code	Standard lever diverter ball red Code	Multifunctional- lever L-port red Code	
16	3/8	10	167 484 688	167 484 788	167 484 642	
20	1/2	15	167 484 688	167 484 788	167 484 642	
25	3/4	20	167 484 689	167 484 789	167 484 643	
32	1	25	167 484 690	167 484 790	167 484 644	
40	1 1/4	32	167 484 691	167 484 791	167 484 645	
50	1 1/2	40	167 484 692	167 484 792	167 484 646	
63	2	50	167 484 693	167 484 793	167 484 647	

d [mm]	Inch	DN [mm]	Multifunctional- lever diverter ball red Code
16	3/8	10	167 484 742
20	1/2	15	167 484 742
25	3/4	20	167 484 743
32	1	25	167 484 744
40	1 1/4	32	167 484 745
50	1 ½	40	167 484 746
63	2	50	167 484 747



Face seal

Model:

• Face seal no. 10

d [mm]	Inch		EPDM Code	FPM Code
16	3/8	10	748 410 059	749 410 059
20	1/2		748 410 059	
25	3/4	20	748 410 106	749 410 106

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
32	1	25	748 410 151	749 410 151
40	1 1/4	32	748 410 062	749 410 062
50	1 1/2	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231



Seal set

Model:

• Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 486 400	161 486 410
20	1/2	15	161 486 400	161 486 410
25	3/4	20	161 486 401	161 486 411
32	1	25	161 486 402	161 486 412
40	1 1/4	32	161 486 403	161 486 413
50	1 ½	40	161 486 404	161 486 414
63	2	50	161 486 405	161 486 415



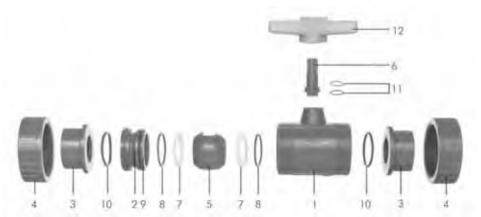
Assembly kit

Model:

- Intermediate element for ball valve type 543 vertical and electric or pneumatic actuators EA21; PA11/21
- · Including screws and position indicator for actuators

d [mm]	Inch [inch]	DN [mm]	Code
16 - 20	3/8 - 1/2	10 - 15	167 484 945
25 - 32	/- /-		167 484 946
40 - 50	1 1/4 - 1 1/2	32 - 40	167 484 947
63	2	50	167 484 948

Spare parts ball valve type 346





Central part

Model:

- Ball seals standard in PTFE
- Central part consisting of: lever red (12), body (1), union bush (2), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 483 930	161 483 940	163 480 620	163 480 630	169 480 301
20	1/2	15	161 483 931	161 483 941	163 480 621	163 480 631	169 480 301
25	3/4	20	161 483 932	161 483 942	163 480 622	163 480 632	169 480 302
32	1	25	161 483 933	161 483 943	163 480 623	163 480 633	169 480 303
40	1 1/4	32	161 483 934	161 483 944	163 480 624	163 480 634	169 480 304
50	1 1/2	40	161 483 935	161 483 945	163 480 625	163 480 635	169 480 305
63	2	50	161 483 936	161 483 946	163 480 626	163 480 636	169 480 306

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 480 806	167 480 813	175 480 825
20	1/2	15	167 480 807	167 480 814	175 480 826
25	3/4	20	167 480 808	167 480 815	175 480 827
32	1 1	25	167 480 809	167 480 816	175 480 828
40	1 1/4	32	167 480 810	167 480 817	175 480 829
50	1 ½	40	167 480 811	167 480 818	175 480 830
63	2	50	167 480 812	167 480 819	175 480 831



Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (5), stem (6), ball- and stem seal (7,11)

			`	,, (),		(, ,	
d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 482 869	161 482 875	163 480 535	163 480 545	169 480 175
20	1/2	15	161 482 869	161 482 875	163 480 535	163 480 545	169 480 175
25	3/4	20	161 482 870	161 482 876	163 480 536	163 480 546	169 480 176
32	1	25	161 482 871	161 482 877	163 480 537	163 480 547	169 480 177
40	1 1/4	32	161 482 872	161 482 878	163 480 538	163 480 548	169 480 178
50	1 1/2	40	161 482 873	161 482 879	163 480 539	163 480 549	169 480 179
63	2	50	161 482 874	161 482 880	163 480 540	163 480 550	169 480 180

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 480 875	167 480 883	175 480 900
20	1/2	15	167 480 875	167 480 883	175 480 900
25	3/4	20	167 480 876	167 480 884	175 480 901
32	1	25	167 480 877	167 480 885	175 480 902
40	1 1/4	32	167 480 878	167 480 886	175 480 903
50	1 1/2	40	167 480 879	167 480 887	175 480 904
63	2	50	167 480 880	167 480 888	175 480 905



Lever

d [mm]	Inch	DN [mm]	PVC-U orange Code	ASA black Code
16	3/8	10	161 480 725	160 480 115
20	1/2	15	161 480 725	160 480 115
25	3/4	20	161 480 726	160 480 116
32	1	25	161 480 727	160 480 117
40	1 1/4	32	161 480 728	160 480 118
50	1 ½	40	161 480 729	160 480 119
63	2	50	161 480 730	160 480 120



Face seal

Model:

• Face seal no. 10

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	748 410 042	749 410 042
20	1/2	15	748 410 042	749 410 042
25	3/4	20	748 410 116	749 410 116
32	1	25	748 410 103	749 410 103
40	1 1/4	32	748 410 027	749 410 027
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011



Seal set

Model:

• Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 482 883	161 482 892
20	1/2	15	161 482 883	161 482 892
25	3/4	20	161 482 884	161 482 893
32	1	25	161 482 885	161 482 894
40	1 1/4	32	161 482 886	161 482 895
50	1 ½	40	161 482 887	161 482 896
63	2	50	161 482 888	161 482 897



Union nut

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
16	3/8	10	161 340 617	163 480 995	169 480 101	167 480 786	175 480 819
20	1/2	15	161 340 617	163 480 995	169 480 101	167 480 786	175 480 819
25	3/4	20	161 340 618	163 480 081	169 480 102	167 480 787	175 480 820
32	1	25	161 340 619	163 480 082	169 480 103	167 480 788	175 480 821
40	1 1/4	32	161 340 620	163 480 083	169 480 104	167 480 789	175 480 822
50	1 1/2	40	161 340 621	163 480 084	169 480 105	167 480 790	175 480 823
63	2	50	161 480 522	163 480 085	169 480 106	167 480 791	175 480 824



Valve end with socket metric

d	Inch	DN	PVC-U	PVC-C	ABS	PP-H	PVDF
[mm]		[mm]	Code	Code	Code	Code	Code
16	3/8	10	161 480 536	163 480 522	169 480 152	167 480 159	175 480 031
20	1/2	15	161 480 537	163 480 523	169 480 153	167 480 160	175 480 032
25	3/4	20	161 480 538	163 480 524	169 480 154	167 480 161	175 480 033
32	1	25	161 480 539	163 480 525	169 480 155	167 480 162	175 480 034
40	1/4	32	161 480 540	163 480 526	169 480 156	167 480 163	175 480 035
50	1 1/2	40	161 480 541	163 480 527	169 480 157	167 480 164	175 480 036
63	2	50	161 480 542	163 480 528	169 480 158	167 480 165	175 480 037
d	Inch	DN	PE80				
[mm]		[mm]	Code				
16	3/8	10	173 480 000				
20	1/2	15	173 480 001				
25	3/4	20	173 480 002				
32	1	25	173 480 003				
40	1/4	32	173 480 004				
50	1 ½	40	173 480 005				
63	2	E0.	173 480 006				



Valve end with socket ANSI/JIS/BS

Inch	DN	PVC-U ANSI	PVC-C ASTM	PP-H ANSI	PVC-U JIS	PVC-U BS
	[mm]	Code	Code	Code	Code	Code
3/8	10	161 482 377	163 480 172	167 480 452		161 480 543
1/2	15	161 482 378	163 480 173	167 480 453	161 484 601	161 480 544
3/4	20	161 482 379	163 480 174	167 480 454	161 484 602	161 480 545
1	25	161 482 380	163 480 175	167 480 455	161 484 603	161 480 546
1 1/4	32	161 482 381	163 480 176	167 480 456	161 484 604	161 480 547
1 1/2	40	161 482 382	163 480 177	167 480 457	161 484 605	161 480 548
2	50	161 482 383	163 480 178	167 480 458	161 484 606	161 480 549
h	DN	ABS BS				
	[mm]	Code				
3/8	10	169 480 110				
1/2	15	169 480 111				
3/4	20	169 480 112				
1	25	169 480 113				

+GF+

Inch	ABS BS Code
1 1/4	169 480 114
1 ½ 2	169 480 115 169 480 116



Valve end with spigot metric

d	Inch	DN	PVC-U	PVC	-C	PP-H		PP-H SDI	R17,6
[mm]		[mm]	Code	Code	9	Code		Code	
16	3/8	10	161 482 345	163	480 825	167 480 5	527	-	
20	1/2	15	161 482 346	163	480 826	167 480 5	528	-	
25	3/4	20	161 482 347	163	480 827	167 480 5	529	-	
32	1	25	161 482 348	163	480 828	167 480 5	530	-	
40	1	32	161 482 349	163	480 829	167 480 5	531	-	
50	1 1/2	40	161 482 350	163	480 830	167 480 5	532	167 480 5	41
63	2	50	161 482 351	163	480 831	167 480 5	533	167 480 5	42
d	Inch	DN	PP-H SDR11	long	PP-H S	DR11 IR	PVI)F	
[mm]		[mm]	Code		Code		Cod	de	
16	3/8	10	-		-		175	480 787	
20	1/2	15	167 482 546		167 480	546	175	480 788	
25	3/4	20	167 482 547		167 480	547	175	480 789	

167 480 548

167 480 549

167 480 550

167 480 551

175 480 790

175 480 791

175 480 792

175 480 793



Butt fusion spigot

40

50

1

1 ½ 2

40

50

25 **167 482 548**

32 **167 482 549**

167 482 550 167 482 551

d [mm]	Inch	DN [mm]	PE100 SDR17,6 Code	PE100 SDR11 Code	PE100 SDR11 long Code	PVDF SDR11 IR Code
20	1/2	15	-	193 480 027	193 480 127	175 480 797
25	3/4	20	-	193 480 028	193 480 128	175 480 798
32	1	25	-	193 480 029	193 480 129	175 480 799
40	1/4	32	-	193 480 030	193 480 130	175 480 800
50	1 1/2	40	193 480 017	193 480 031	193 480 131	175 480 801
63	2	50	193 480 018	193 480 032	193 480 132	175 480 802



Threaded bush Rp

Rp	DN	PVC-U	PVC-C	ABS	PP-H	
[inch]	[mm]	Code	Code	Code	Code	
3/8	10	161 480 550	163 480 832	169 480 120	167 480 166	
1/2	15	161 480 551	163 480 833	169 480 121	167 480 167	
3/4	20	161 480 552	163 480 834	169 480 122	167 480 168	
1	25	161 480 553	163 480 835	169 480 123	167 480 169	
1 1/4	32	161 480 554	163 480 836	169 480 124	167 480 170	
1 1/2	40	161 480 555	163 480 837	169 480 125	167 480 171	
2	50	161 480 556	163 480 838	169 480 126	167 480 172	



Threaded bush Rc/NPT

Inch	DN [mm]	PVC-U Rc Code	PVC-U NPT Code	PP-H NPT Code	PVDF NPT Code	
3/8	10		161 482 389	167 480 452	175 480 727	
1/2	15	161 484 610	161 482 390	167 480 453	175 480 728	
3/4	20	161 484 611	161 482 391	167 480 454	175 480 729	
1	25	161 484 612	161 482 392	167 480 455	175 480 730	
1 1/4	32	161 484 613	161 482 393	167 480 456	175 480 731	
1 1/2	40	161 484 614	161 482 394	167 480 457	175 480 732	
2	50	161 484 615	161 482 395	167 480 458	175 480 733	

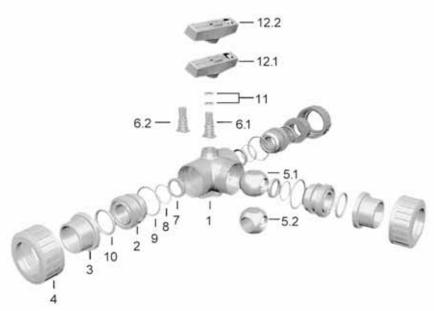


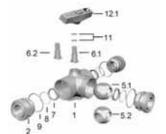
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Fixed flange jointing face serrated metric

d [mm]	Inch	DN [mm]	PVC-U Code	PP-H Code	PVDF Code
20	1/2	15	721 740 106	727 740 106	735 740 106
25	3/4	20	721 740 107	727 740 107	735 740 107
32	1	25	721 740 108	727 740 108	735 740 108
40	1 1/4	32	721 740 109	727 740 109	735 740 109
50	1 1/2	40	721 740 110	727 740 110	735 740 110
63	2	50	721 740 111	727 740 111	735 740 111

Spare parts ball valve type 343 horizontal





Central part L-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: lever (12.1), body (1), union bush (2), ball (5.1), stem (6.1), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 490 439	161 490 450	163 480 913	163 480 924	169 480 468
20	1/2	15	161 490 439	161 490 450	163 480 913	163 480 924	169 480 468
25	3/4	20	161 490 440	161 490 451	163 480 914	163 480 925	169 480 469
32	1	25	161 490 441	161 490 452	163 480 915	163 480 926	169 480 470
40	1 1/4	32	161 490 442	161 490 453	163 480 916	163 480 927	169 480 471
50	1 1/2	40	161 490 443	161 490 454	163 480 917	163 480 928	169 480 472
63	2	50	161 490 444	161 490 455	163 480 918	163 480 929	169 480 473

d	Inch	DN	PP-H EPDM	PP-H FPM	PVDF FPM	
[mm]		[mm]	Code	Code	Code	
16	3/8	10	167 482 137	167 482 148	175 482 593	
20	1/2	15	167 482 137	167 482 148	175 482 593	
25	3/4	20	167 482 138	167 482 149	175 482 594	
32	1	25	167 482 139	167 482 150	175 482 595	
40	1 1/4	32	167 482 140	167 482 151	175 482 596	
50	1 ½	40	167 482 141	167 482 152	175 482 597	
63	2	50	167 482 142	167 482 153	175 482 598	

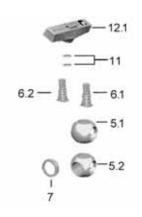
Central part T-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: lever (12.1), body (1), union bush (2), ball (5.2), stem (6.2), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 490 461	161 490 472	163 480 935	163 480 946	169 480 490
20	1/2	15	161 490 461	161 490 472	163 480 935	163 480 946	169 480 490
25	3/4	20	161 490 462	161 490 473	163 480 936	163 480 947	169 480 491
32	1	25	161 490 463	161 490 474	163 480 937	163 480 948	169 480 492
40	1 1/4	32	161 490 464	161 490 475	163 480 938	163 480 949	169 480 493
50	1 ½	40	161 490 465	161 490 476	163 480 939	163 480 950	169 480 494
63	2	50	161 490 466	161 490 477	163 480 940	163 480 951	169 480 495
d	Inch	DN	PP-H EPDM	PP-H FPM	PVDF FPM		
		l					

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 482 159	167 482 170	175 482 620
20	1/2	15	167 482 159	167 482 170	175 482 620
25	3/4	20	167 482 160	167 482 171	175 482 621
32	1	25	167 482 161	167 482 172	175 482 622
40	1 1/4	32	167 482 162	167 482 173	175 482 623
50	1 ½	40	167 482 163	167 482 174	175 482 624
63	2	50	167 482 164	167 482 175	175 482 625



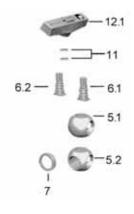
Ball set L-port

Model:

- · Ball seals standard in PTFE
- Ball set consisting of: lever (12.1), ball (5.1), stem (6.1), ball- and stem seal (7,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
16	3/8	10	161 486 015	161 486 027	163 481 000	163 481 012	169 480 513	
20	1/2	15	161 486 015	161 486 027	163 481 000	163 481 012	169 480 513	
25	3/4	20	161 486 016	161 486 028	163 481 001	163 481 013	169 480 514	
32	1	25	161 486 017	161 486 029	163 481 002	163 481 014	169 480 515	
40	1 1/4	32	161 486 018	161 486 030	163 481 003	163 481 015	169 480 516	
50	1 1/2	40	161 486 019	161 486 031	163 481 004	163 481 016	169 480 517	
63	2	50	161 486 020	161 486 032	163 481 005	163 481 017	169 480 518	

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	3/8	10	167 482 190	167 482 202	175 482 662	
20	1/2	15	167 482 190	167 482 202	175 482 662	
25	3/4	20	167 482 191	167 482 203	175 482 663	
32	1	25	167 482 192	167 482 204	175 482 664	
40	1 1/4	32	167 482 193	167 482 205	175 482 665	
50	1 ½	40	167 482 194	167 482 206	175 482 666	
63	2	50	167 482 195	167 482 207	175 482 667	



Ball set T-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12.2), ball (5.2), stem (6.2), ball- and stem seal (7,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 486 039	161 486 051	163 481 024	163 481 036	169 480 537
20	1/2	15	161 486 039	161 486 051	163 481 024	163 481 036	169 480 537
25	3/4	20	161 486 040	161 486 052	163 481 025	163 481 037	169 480 538
32	1	25	161 486 041	161 486 053	163 481 026	163 481 038	169 480 539
40	1 1/4	32	161 486 042	161 486 054	163 481 027	163 481 039	169 480 540
50	1 1/2	40	161 486 043	161 486 055	163 481 028	163 481 040	169 480 541
63	2	50	161 486 044	161 486 056	163 481 029	163 481 041	169 480 542

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 482 214	167 482 226	175 482 687
20	1/2	15	167 482 214	167 482 226	175 482 687
25	3/4	20	167 482 215	167 482 227	175 482 688
32	1	25	167 482 216	167 482 228	175 482 689
40	1 1/4	32	167 482 217	167 482 229	175 482 690
50	1 ½	40	167 482 218	167 482 230	175 482 691
63	2	50	167 482 219	167 482 231	175 482 692



Lever

d [mm]	Inch	DN [mm]	L-port Code	T-port Code
16	3/8	10	161 482 151	161 486 175
20	1/2	15	161 482 151	161 486 175
25	3/4	20	161 482 152	161 486 176
32	1	25	161 482 153	161 486 177
40	1 1/4	32	161 482 154	161 486 178
50	1 ½	40	161 482 155	161 486 179
63	2	50	161 482 156	161 486 180

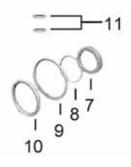


Face seal

Model:

• Face seal no. 10

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	748 410 042	749 410 042
20	1/2	15	748 410 042	749 410 042
25	3/4	20	748 410 116	749 410 116
32	1	25	748 410 103	749 410 103
40	1 1/4	32	748 410 027	749 410 027
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011



Seal set

Model:

• Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 484 941	161 484 951
20	1/2	15	161 484 941	161 484 951
25	3/4	20	161 484 942	161 484 952
32	1	25	161 484 943	161 484 953
40	1 1/4	32	161 484 944	161 484 954
50	1 ½	40	161 484 945	161 484 955
63	2	50	161 484 946	161 484 956



Union nut

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
16	3/8	10	161 340 617	163 480 995	169 480 101	167 480 786	175 480 819
20	1/2	15	161 340 617	163 480 995	169 480 101	167 480 786	175 480 819
25	3/4	20	161 340 618	163 480 081	169 480 102	167 480 787	175 480 820
32	1	25	161 340 619	163 480 082	169 480 103	167 480 788	175 480 821
40	1 1/4	32	161 340 620	163 480 083	169 480 104	167 480 789	175 480 822
50	1 ½	40	161 482 119	163 480 084	169 480 105	167 480 790	175 480 823
63	2	50	161 480 522	163 480 085	169 480 106	167 480 791	175 480 824



Valve end with socket metric

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PE80 Code
16	3/8	10	161 480 536	163 480 522	169 480 152	167 480 159	173 480 000
20	1/2	15	161 480 537	163 480 523	169 480 153	167 480 160	173 480 001
25	3/4	20	161 480 538	163 480 524	169 480 154	167 480 161	173 480 002
32	1	25	161 480 539	163 480 525	169 480 155	167 480 162	173 480 003
40	1 1/4	32	161 480 540	163 480 526	169 480 156	167 480 163	173 480 004
50	1 1/2	40	161 480 541	163 480 527	169 480 157	167 480 164	173 480 005
63	2	50	161 480 542	163 480 528	169 480 158	167 480 165	173 480 006
d	Inch	DN	PVDF				
[mm]		[mm]	Code				

d [mm]	Inch	DN [mm]	PVDF Code
16	3/8	10	175 480 031
20	1/2	15	175 480 032
25	3/4	20	175 480 033
32	1	25	175 480 034
40	1 1/4	32	175 480 035
50	1 ½	40	175 480 036
63	2	50	175 480 037



Valve end with socket ANSI/JIS/BS

Inch	DN [mm]	PVC-U ANSI Code	PP-H ANSI Code	PVC-U JIS Code	PVC-U BS Code	ABS BS Code
3/8	10	161 482 377	167 480 452		161 480 543	169 480 110
1/2	15	161 482 378	167 480 453	161 484 601	161 480 544	169 480 111
3/4	20	161 482 379	167 480 454	161 484 602	161 480 545	169 480 112
1	25	161 482 380	167 480 455	161 484 603	161 480 546	169 480 113
1 1/4	32	161 482 381	167 480 456	161 484 604	161 480 547	169 480 114
1 1/2	40	161 482 382	167 480 457	161 484 605	161 480 548	169 480 115
2	50	161 482 383	167 480 458	161 484 606	161 480 549	169 480 116



Valve end with spigot metric

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	PP-H Code	PP-H SDR17,6 Code
16	3/8	10	161 482 345	163 480 825	167 480 527	-
20	1/2	15	161 482 346	163 480 826	167 480 528	-
25	3/4	20	161 482 347	163 480 827	167 480 529	-
32	1	25	161 482 348	163 480 828	167 480 530	-
40	1 1/4	32	161 482 349	163 480 829	167 480 531	-
50	1 1/2	40	161 482 350	163 480 830	167 480 532	167 480 541
63	2	50	161 482 351	163 480 831	167 480 533	167 480 542

d [mm]	Inch	DN [mm]	PP-H SDR11 long Code	PP-H SDR11 IR Code	PVDF Code	
16	3/8	10	-	-	175 480 787	
20	1/2	15	167 482 546	167 480 546	175 480 788	
25	3/4	20	167 482 547	167 480 547	175 480 789	
32	1	25	167 482 548	167 480 548	175 480 790	
40	1 1/4	32	167 482 549	167 480 549	175 480 791	
50	1 ½	40	167 482 550	167 480 550	175 480 792	
63	2	50	167 482 551	167 480 551	175 480 793	



Butt fusion spigot

d [mm]	Inch	DN [mm]	PE100 SDR17,6 Code	PE100 SDR11 Code	PE100 SDR11 long Code	PVDF SDR11 IR Code	
20	1/2	15	-	193 480 027	193 480 027	175 480 797	
25	3/4	20	-	193 480 028	193 480 028	175 480 798	
32	1	25	-	193 480 029	193 480 029	175 480 799	





d [mm]	Inch	DN [mm]	PE100 SDR17,6 Code	PE100 SDR11 Code	PE100 SDR11 long Code	PVDF SDR11 IR Code	
40	1 1/4	32	-	193 480 030	193 480 030	175 480 800	
50	1 ½	40	193 480 017	193 480 031	193 480 031	175 480 801	
63	2	50	193 480 018	193 480 032	193 480 032	175 480 802	



Threaded bush Rp

Rp inch]	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	
3/8	10	161 480 550	163 480 832	169 480 120	167 480 166	
1/2	15	161 480 551	163 480 833	169 480 121	167 480 167	
3/4	20	161 480 552	163 480 834	169 480 122	167 480 168	
1	25	161 480 553	163 480 835	169 480 123	167 480 169	
1 1/4	32	161 480 554	163 480 836	169 480 124	167 480 170	
1 ½	40	161 480 555	163 480 837	169 480 125	167 480 171	
2	50	161 480 556	163 480 838	169 480 126	167 480 172	



Fixed flange jointing face serrated metric

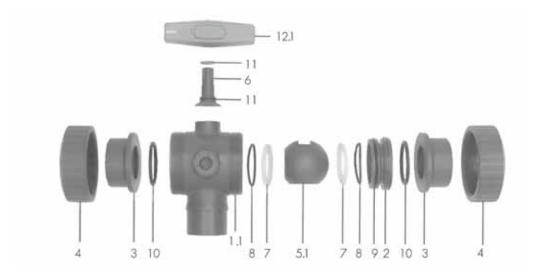
d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	PVDF Code
20	1/2	15	721 740 106	727 740 106	735 740 106
25	3/4	20	721 740 107	727 740 107	735 740 107
32	1	25	721 740 108	727 740 108	735 740 108
40	1 1/4	32	721 740 109	727 740 109	735 740 109
50	1 ½	40	721 740 110	727 740 110	735 740 110
63	2	50	721 740 111	727 740 111	735 740 111



Threaded bush Rc/NPT

nch	DN [mm]	PVC-U Rc Code	PVC-U NPT Code	PP-H NPT Code	PVDF NPT Code	
3/8	10		161 482 389	167 480 452	175 480 727	
1/2	15	161 484 610	161 482 390	167 480 453	175 480 728	
3/4	20	161 484 611	161 482 391	167 480 454	175 480 729	
1	25	161 484 612	161 482 392	167 480 455	175 480 730	
1 1/4	32	161 484 613	161 482 393	167 480 456	175 480 731	
1 ½	40	161 484 614	161 482 394	167 480 457	175 480 732	
2	50	161 484 615	161 482 395	167 480 458	175 480 733	

Spare parts ball valve type 343 vertical





Central part

Model:

- Ball seals standard in PTFE
- Central part consisting of: lever (12.1), body (1.1), union bush (2), ball (5.1), stem (6), ball-, backing-, body- and stem seal (7-9,11)

				, ,
d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code
16	3/8	10	161 484 230	161 484 240
20	1/2	15	161 484 231	161 484 241
25	3/4	20	161 484 232	161 484 242
32	1	25	161 484 233	161 484 243
40	1 1/4	32	161 484 234	161 484 244
50	1 ½	40	161 484 235	161 484 245
63	2	50	161 484 236	161 484 246



Ball set L-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12.1), ball (5.1), stem (6), ball- and stem seal (7,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code
16	3/8	10	161 483 343	161 483 351
20	1/2	15	161 483 343	161 483 351
25	3/4	20	161 483 344	161 483 352
32	1	25	161 483 345	161 483 353
40	1 1/4	32	161 483 346	161 483 354
50	1 ½	40	161 483 347	161 483 355
63	2	50	161 483 348	161 483 356



Lever

d [mm]	Inch	DN [mm]	vertical Code
16	3/8	10	161 480 715
20	1/2	15	161 480 715
25	3/4	20	161 480 716
32	1	25	161 480 717
40	1 1/4	32	161 480 718
50	1 ½	40	161 482 146
63	2	50	161 482 147

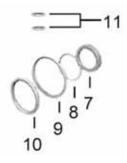


Face seal

Model:

• Face seal no. 10

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	748 410 042	749 410 042
20	1/2	15	748 410 042	749 410 042
25	3/4	20	748 410 116	749 410 116
32	1	25	748 410 103	749 410 103
40	1 1/4	32	748 410 027	749 410 027
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011



Seal set

Model:

• Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 482 883	161 482 892
20	1/2	15	161 482 883	161 482 892
25	3/4	20	161 482 884	161 482 893
32	1	25	161 482 885	161 482 894
40	1 1/4	32	161 482 886	161 482 895
50	1 ½	40	161 482 887	161 482 896
63	2	50	161 482 888	161 482 897



Union nut

d-d [mm]	Inch [inch]	DN-DN [mm]	PVC-U Code
16 - 20	3/8 - 1/2	10 - 15	161 340 617
- 25	3/4	- 20	161 340 618
- 32	1	- 25	161 340 619
- 40 - 50	1 1/4	- 32	161 340 620
		- 40	161 482 119
- 63		- 50	161 482 613



Valve end with socket metric

d [mm]	Inch	DN [mm]	PVC-U Code	PE80 Code
,				
16	3/8	10	161 480 536	173 480 000
20	1/2	15	161 480 537	173 480 001
25	3/4	20	161 480 538	173 480 002
32	1	25	161 480 539	173 480 003
40	1 1/4	32	161 480 540	173 480 004
50	1 ½	40	161 480 541	173 480 005
63	2	50	161 480 542	173 480 006



Valve end with socket ANSI/JIS

Inch	DN [mm]	PVC-U JIS Code	PVC-U ANSI Code
3/8	10		161 482 377
1/2	15	161 484 601	161 482 378
3/4	20	161 484 602	161 482 379
1	25	161 484 603	161 482 380
1 1/4	32	161 484 604	161 482 381
1 1/2	40	161 484 605	161 482 382
2	50	161 484 606	161 482 383



Valve end with spigot metric

d [mm]	Inch	DN [mm]	PVC-U Code
16	3/8	10	161 482 345
20	1/2	15	161 482 346
25	3/4	20	161 482 347
32	1	25	161 482 348
40	1 1/4	32	161 482 349
50	1 ½	40	161 482 350
63	2	50	161 482 351



Butt fusion spigot

d [mm]	Inch	DN [mm]	PE100 SDR11 long Code
20	1/2	15	193 480 127
25	3/4	20	193 480 128
32	1	25	193 480 129
40	1 1/4	32	193 480 130
50	1 ½	40	193 480 131
63	2	50	193 480 132



Threaded bush Rp

Rp [inch]	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	
3/8	10	161 480 550	163 480 832	169 480 120	167 480 166	
1/2	15	161 480 551	163 480 833	169 480 121	167 480 167	
3/4	20	161 480 552	163 480 834	169 480 122	167 480 168	
1	25	161 480 553	163 480 835	169 480 123	167 480 169	
1 1/4	32	161 480 554	163 480 836	169 480 124	167 480 170	
1 ½	40	161 480 555	163 480 837	169 480 125	167 480 171	
2	50	161 480 556	163 480 838	169 480 126	167 480 172	



Threaded bush Rc/NPT

Inch	DN [mm]	PVC-U Rc Code	PVC-U NPT Code	PP-H NPT Code	PVDF NPT Code	
3/8	10		161 482 389	167 480 452	175 480 727	
1/2	15	161 484 610	161 482 390	167 480 453	175 480 728	
3/4	20	161 484 611	161 482 391	167 480 454	175 480 729	
1	25	161 484 612	161 482 392	167 480 455	175 480 730	
1 1/4	32	161 484 613	161 482 393	167 480 456	175 480 731	
1 ½	40	161 484 614	161 482 394	167 480 457	175 480 732	
2	50	161 484 615	161 482 395	167 480 458	175 480 733	



Spare parts ball valve type 370

Central part radial

Model:

- Ball seals standard in PTFE
- Central part consisting of: half body, ball (1), bush (6+7), lever (8), ball-, backing-, body-, and stem seal (2-5)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
75 90	2 ½ 3	65 80	161 484 561 161 484 562	161 484 564 161 484 565	163 481 211 163 481 212	163 481 235 163 481 236	169 480 342 169 480 343	
110	4	100		161 484 566	163 481 213	163 481 237	169 480 344	



Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (1), ball- and stem seal (2,5)

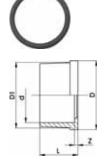
d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
75	2 ½	65	161 482 958	161 482 963	163 480 798	163 480 803	169 480 376
90	3	80	161 482 959	161 482 964	163 480 799	163 480 804	169 480 377
110	4	100	161 482 960	161 482 965	163 480 800	163 480 805	169 480 378
160	6	150	161 482 960	161 482 965			
d	Inch	DN	PP-H EPDM	PP-H FPM			

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code
75	2 ½	65	167 480 891	167 480 896
90	3	80	167 480 892	167 480 897
110	4	100	167 480 893	167 480 898
160	6	150	167 480 893	167 480 898



Lever

d-d [mm]	Inch [inch]	DN-DN [mm]	PVC-U orange Code	PVC-U black Code
- 75 - 90 110 - 160	_	- 80	161 480 763 161 480 764 161 480 420	161 481 260 161 481 261 161 481 262



Face seal

Model:

• Face seal no. 9

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 112	749 410 112
110	4	100	748 410 099	749 410 099







Seal set

Model:

• Seal set consisting of: backing-, body- and stem seal (3-5)

d-d [mm]	Inch [inch]	DN-DN [mm]	EPDM Code	FPM Code
- 75 - 90 110 - 160	2 ½ 3 4 - 6	- 65 - 80 100 - 150		161 482 974 161 482 975 161 482 976





Union nut

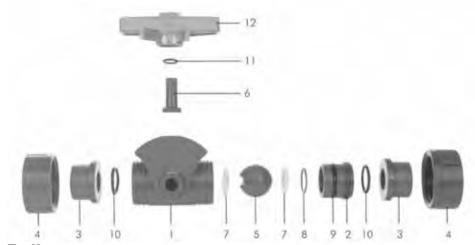




Valve end with socket

d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-U blank Code	PVC-U JIS Code	PVC-U ASTM Code
75 90 110	3	65 80 100		721 600 012 721 600 013 721 600 014	721 605 112 721 605 113 721 605 114	721 602 005 721 602 006 721 602 007
d [mm]	Inch	DN [mm]	PVC-C metric Code	ABS metric Code		
75 90 110	3	65 80 100	723 600 163	729 800 162 729 800 163 729 800 164		

Spare parts metering ball valve type 323





Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: union nut (4), ball (5), stem (6), ball- and stem seal (7,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PP-H EPDM Code	PP-H FPM Code
16	3/8	10	161 482 986	161 482 989	167 480 901	167 480 904
20	1/2	15	161 482 987	161 482 990	167 480 902	167 480 905



Lever

d [mm]	Inch	PVC-U orange Code	ASA black Code
16 20		161 480 724 161 480 724	160 480 130 160 480 130



Face seal

Model:

• Face seal no. 10

d [mm]			EPDM Code	FPM Code
16	3/8	10	748 410 042	749 410 042
20	1/2	15	748 410 042	749 410 042



Seal set

Model

• Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16 20		l		161 482 892 161 482 892	



Union bush

d [mm]	Inch		PVC-U Code	PP-H Code
16 20		l .	161 482 339 161 482 339	



Union nut

d [mm]	Inch		PVC-U Code	PP-H Code
16			161 340 617	
20	1/2	15	161 340 617	167 480 786



Valve end with socket metric

d [mm]	Inch		PVC-U Code	PE80 Code	PP-H Code
16	3/8	10	161 480 536	173 480 000	167 480 159
20	1/2	15	161 480 537	173 480 001	167 480 160



Valve end with socket ANSI/JIS/BS

Inch	DN [mm]	PVC-U ANSI Code	PVC-U JIS Code	PVC-U BS Code	
3/8	10	161 482 377		161 480 543	
1/2	15	161 482 378	161 484 601	161 480 544	



Valve end with spigot metric

d [mm]	Inch	 PVC-U Code	PP-H Code
16 20		161 482 345 161 482 346	



Butt fusion spigot

d I	Inch	DN [mm]	PE100 SDR11 long Code	PE100 SDR11 Code	PP-H SDR11 long Code	PP-H SDR11 IR Code
20 20	1/2 1/2	15 15	193 480 127	193 480 027 167 480 546	167 482 546	167 480 546



Threaded bush Rp

Rp [inch]	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	
3/8	10	161 480 550	163 480 832	169 480 120	167 480 166	
1/2	15	161 480 551	163 480 833	169 480 121	167 480 167	
72	13	161 460 551	103 400 033	109 400 121	107 400 107	



Threaded bush Rc/NPT

	mm]	Code	Code	Code	
3/8	10		161 482 389	175 480 727	
1/2	15	161 484 610	161 482 390	175 480 728	

513



Spare parts ball valve type 353 Lever PP

Inch	DN [mm]	red Code	green Code	yellow Code	black Code	white Code
1/2 3/4 1 1 1/4 1 1/2 2	20 25 32 40	167 481 161 167 481 161 167 481 162 167 481 162	167 481 145 167 481 146 167 481 146 167 481 147 167 481 147 167 481 148	167 481 155 167 481 156 167 481 156 167 481 157 167 481 157 167 481 158	167 481 150 167 481 151 167 481 151 167 481 152 167 481 152 167 481 153	167 481 570 167 481 571 167 481 571 167 481 572 167 481 572 167 481 573
Inch	DN [mm]	blue Code				
1/2 3/4 1 1 1/4 1 1/2 2	20 25 32 40	167 481 090 167 481 091 167 481 091 167 481 092 167 481 092 167 481 093				



Spare parts ball valve type 354 Lever PP

d [mm]	Inch	DN [mm]	red Code	green Code	yellow Code	black Code	white Code
20	1/2	15	167 481 160	161 481 145	167 481 155	167 481 150	1674781570
25	3/4	20	167 481 161	161 481 146	167 481 156	167 481 151	1674781571
32	1	25	167 481 161	161 481 146	167 481 156	167 481 151	1674781571
40	1 1/4	32	167 481 162	161 481 147	167 481 157	167 481 152	1674781572
50	1 1/2	40	167 481 162	161 481 147	167 481 157	167 481 152	1674781572
63	2	50	167 481 163	161 481 148	167 481 158	167 481 153	1674781573
d	Inch	DN	blue				
[mm]		[mm]	Code				
20	1/2	15	167 481 090				
25	3/4	20	167 481 091				
32	1	25	167 481 091				
	4 1/	32	167 481 092				
40	1 1/4						
40 50	1 1/2	40	167 481 092				



Face seal

d [mm]	Inch	DN [mm]	EPDM Code
20	1/2	15	748 410 042
25	3/4	20	748 410 116
32	1	25	748 410 103
40	1 1/4	32	748 410 027
50	1 1/2	40	748 410 010
63	2	50	748 410 011



Union nut

d [mm]	Inch	DN [mm]	PVC-U Code
20	1/2	15	721 690 006
25	3/4	20	721 690 007
32	1	25	721 690 008
40	1 1/4	32	721 690 009
50	1 ½	40	721 690 010
63	2	50	721 690 011





Valve end

d [mm]	Inch	DN [mm]	PVC-U socket metric Code	PVC-U Rp Code	PVC-U NPT Code	PVC-U blank Code
20	1/2	15	721 600 106	721 600 656	721 602 656	721 600 006
25	3/4	20	721 600 107	721 600 657	721 602 657	721 600 007
32	1	25	721 600 108	721 600 658	721 602 658	721 600 008
40	1 1/4	32	721 600 109	721 600 659	721 602 659	721 600 009
50	1 1/2	40	721 600 110	721 600 660	721 602 660	721 600 010
63	2	50	721 600 111	721 600 661	721 602 661	721 600 011

Spare parts ball valve type 355 Central part

d [mm]	Inch	DN [mm]	EPDM Code
20	1/2	15	161 483 837
25	3/4	20	161 483 838
32	1	25	161 483 839
40	1 1/4	32	161 483 840
50	1 ½	40	161 483 841
63	2	50	161 483 842



Lever PP

d [mm]	Inch	DN [mm]	red Code	green Code	yellow Code	black Code	white Code
20	1/2	15	167 481 160	167 481 145	167 481 155	167 481 150	167 481 570
25	3/4	20	167 481 161	167 481 146	167 481 156	167 481 151	167 481 571
32	1	25	167 481 161	167 481 146	167 481 156	167 481 151	167 481 571
40	1 1/4	32	167 481 162	167 481 147	167 481 157	167 481 152	167 481 572
50	1 1/2	40	167 481 162	167 481 147	167 481 157	167 481 152	167 481 572
63	2	50	167 481 163	167 481 148	167 481 158	167 481 153	167 481 573

d	Inch	DN	blue	
[mm]		[mm]	Code	
20	1/2	15	167 481 090	
25	3/4	20	167 481 091	
32	1	25	167 481 091	
40	1 1/4	32	167 481 092	
50	1 ½	40	167 481 092	
63	2	50	167 481 093	



Face seal

d [mm]	Inch	DN [mm]	EPDM Code
20	1/2	15	748 410 042
25	3/4	20	748 410 116
32	1	25	748 410 103
40	1 1/4	32	748 410 027
50	1 1/2	40	748 410 010
63	2	50	748 410 011



Union nut

d [mm]	Inch	DN [mm]	PVC-U Code
20	1/2	_	
25	3/4	20	721 690 007
32	1	25	721 690 008
40	1 1/4	32	721 690 009
50	1 ½	40	721 690 010
63	2	50	721 690 011

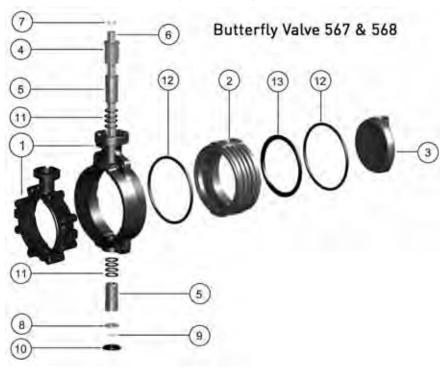
Valve end

vai	ve e	IIU							
d [mm]	Inch	DN [mm]	PVC-U socket metric Code	PVC-U Rp Code	PVC Code	-U Rc e	PVC-U Code	J NPT	
20 25 32 40 50 63	1/2 3/4 1 1 1/4 1 1/2 2	15 20 25 32 40 50	721 600 107 721 600 108 721 600 109 721 600 110	721 600 656 721 600 657 721 600 658 721 600 659 721 600 660 721 600 661	721 (721 (721 (721 (605 606 605 607 605 608 605 609 605 610 605 611	721 60 721 60 721 60 721 60 721 60 721 60	02 657 02 658 02 659 02 660	
d [mm]	Inch	DN [mm]	PVC-U socket JIS Code	PVC-U socke Code	t BS	PVC-U Code	blank	PE so Code	cket metric
20 25 32 40 50 63	1/2 3/4 1 1 1/4 1 1/2 2	15 20 25 32 40 50	721 605 107 721 605 108 721 605 109 721 605 110	721 601 106 721 601 107 721 601 108 721 601 109 721 601 110 721 601 111		721 600 721 600 721 600 721 600 721 600 721 600	007 008 009 010	734 60 734 60 734 60 734 60 734 60	00 107 00 108 00 109 00 110

516 +GF+

Spare parts butterfly valves

Spare parts butterfly valve type 567/568





Inner body

Model:

• Inner body consisting of: inner body (2) and profile seal (13)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
63	2	50	161 486 861	161 486 873	163 481 591	163 481 603	169 481 067
75	2 ½	65	161 486 862	161 486 874	163 481 592	163 481 604	169 481 068
90	3	80	161 486 863	161 486 875	163 481 593	163 481 605	169 481 069
110	4	100	161 486 864	161 486 876	163 481 594	163 481 606	169 481 070
140	5	125	161 486 865	161 486 877	163 481 595	163 481 607	169 481 071
160	6	150	161 486 866	161 486 878	163 481 596	163 481 608	169 481 072
225	8	200	161 486 867	161 486 879	163 481 597	163 481 609	169 481 073
280	10	250	161 486 868	161 486 880			
315	12	300	161 486 869	161 486 881			

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	PVDF PTFE Code
63	2	50	167 484 271	167 484 286	175 483 413	175 483 752
75	2 ½	65	167 484 272	167 484 287	175 483 414	175 483 753
90	3	80	167 484 273	167 484 288	175 483 415	175 483 754
110	4	100	167 484 274	167 484 289	175 483 416	175 483 755
140	5	125	167 484 275	167 484 290	175 483 417	175 483 756
160	6	150	167 484 276	167 484 291	175 483 418	175 483 757
225	8	200	167 484 277	167 484 292	175 483 419	175 483 758
280	10	250	167 484 278	167 484 293	175 483 420	175 483 759
315	12	300	167 484 279	167 484 294	175 483 421	175 483 760



Flange seal (12)

Model:

• included in delivery 1 pcs.

d	Inch	DN	EPDM	FPM
[mm]		[mm]	Code	Code
63	2	50	161 486 959	161 486 979
75	2 ½	65	161 486 960	161 486 980
90	3	80	161 486 961	161 486 981
110	4	100	161 486 962	161 486 982
125	5	125	161 486 963	161 486 983
160	6	150	161 486 964	161 486 984
225	8	200	161 486 965	161 486 985
280	10	250	161 486 966	161 486 986
315	12	300	161 486 967	161 486 987
355	14	350	748 410 318	749 410 318
400	16	400	748 410 319	749 410 319
450	18	450	748 410 320	749 410 320
500	20	500	748 410 321	749 410 321
630	24	600	748 410 322	749 410 322



Disc (3)

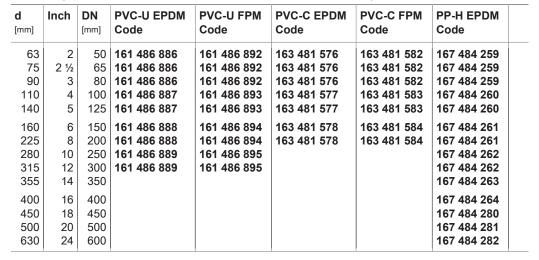
d	Inch	DN	PVC-U	PVC-C	ABS	PP-H	PVDF
[mm]		[mm]	Code	Code	Code	Code	Code
63	2	50	161 490 889	163 481 451	169 480 951	167 483 226	175 483 251
75	2 ½	65	161 490 890	163 481 452	169 480 952	167 483 227	175 483 252
90	3	80	161 490 891	163 481 453	169 480 953	167 483 228	175 483 253
110	4	100	161 490 892	163 481 454	169 480 954	167 483 229	175 483 254
140	5	125	161 490 893	163 481 455	169 480 955	167 483 230	175 483 255
160	6	150	161 490 894	163 481 456	169 480 956	167 483 231	175 483 256
225	8	200	161 490 895	163 481 457	169 480 957	167 483 232	175 483 257
280	10	250	161 490 896			167 483 233	175 483 258
315	12	300	161 490 897			167 483 234	175 483 259
355	14	350	-			167 483 235	
400	16	400	-			167 483 236	
450	18	450	-			167 483 237	
500	20	500	-			167 483 238	
630	24	600	-			167 483 239	
	1	1		1	1	1	1



Bearing bush (5, 11)

Model:

- included in delivery 2 pcs.
- With O-ring
- · Bearing bushes in PP-H are used in PP-H and ABS butterfly valves





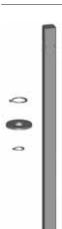
518

d	Inch	DN	PP-H FPM	PVDF FPM
[mm]		[mm]	Code	Code
63	2	50	167 484 265	175 483 426
75	2 ½	65	167 484 265	175 483 426
90	3	80	167 484 265	175 483 426
110	4	100	167 484 266	175 483 427
140	5	125	167 484 266	175 483 427
160	6	150	167 484 267	175 483 428
225	8	200	167 484 267	175 483 428
280	10	250	167 484 268	175 483 429
315	12	300	167 484 268	175 483 429
355	14	350	167 484 269	
400	16	400	167 484 270	
450	18	450	167 484 283	
500	20	500	167 484 284	
630	24	600	167 484 285	



End stopp PP glasfiber reinforced (4)

d [mm]	Inch	DN [mm]	Code
63	2	50	167 483 251
75	2 ½	65	167 483 251
90	3	80	167 483 251
110	4	100	167 483 252
140	5	125	167 483 252
160	6	150	167 483 253
225	8	200	167 483 253
280	10	250	167 483 254
315	12	300	167 483 254



Shaft set

Model:

• Shaft set consisting of: shaft chrom steel 1.4301 AISI 304 (6), retention ring (7, 9) and washer (8)

	,,,,,	,	r
d	Inch	DN	Code
[mm]		[mm]	
63	2	50	161 486 899
75	2 ½	65	161 486 900
90	3	80	161 486 901
110	4	100	161 486 902
140	5	125	161 486 903
160	6	150	161 486 904
225	8	200	
	_		
280	10	250	
315	12	300	
355	14	350	161 486 908
400	16	400	161 486 909
450	18	450	161 486 926
500	20	500	161 486 927
630	24	600	
030	24	000	101 700 920



Hand lever

d [mm]	Inch	DN [mm]	with index plate Code	with fine adjust- ment Code
63	2	50	161 486 690	161 486 325
75	2 ½	65	161 486 690	161 486 325
90	3	80	161 486 690	161 486 325
110	4	100	161 486 691	161 486 326
140	5	125	161 486 691	161 486 326
160	6	150	161 486 694	161 486 327

d [mm]	Inch	DN [mm]	with index plate Code	with fine adjust- ment Code	
225	8	200	161 486 695	161 486 328	
280	10	250	161 486 697		
315	12	300	161 486 697		

Profile seal (13) DN350-600

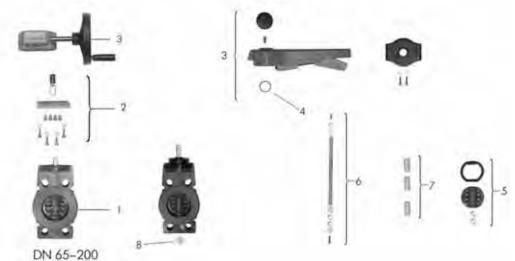
d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
355	14	350	748 440 018	749 440 028
400	16	400	748 440 019	749 440 029
450	18	450	748 440 020	749 440 030
500	20	500	748 440 021	749 440 031
630	24	600	748 440 022	749 440 032

Snap ring DN350-600

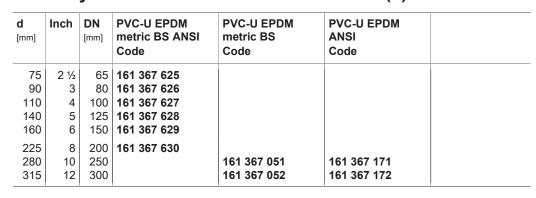
· For fixation of profile seal in body

d [mm]	Inch	DN [mm]	PP-H Code
355	14	350	167 484 295
400	16	400	167 484 296
450	18	450	167 484 297
500	20	500	167 484 298
630	24	600	167 484 299

Spare parts butterfly valve type 367



Butterfly valve bare shaft with short shaft (1)





520

d [mm]	Inch	DN [mm]	PVC-U EPDM JIS Code	PVC-U FPM met- ric BS ANSI Code	PVC-U FPM meric BS Code	et-		
75 90 110 140 160	2 ½ 3 4 5 6	65 80 100 125 150	161 367 685 161 367 686 161 367 687 161 367 688 161 367 689	161 367 635 161 367 636 161 367 637 161 367 638 161 367 639				
225 280 315	8 10 12	200 250 300	161 367 690 161 367 351 161 367 352	161 367 640	161 367 071 161 367 072			
d [mm]	Inch	DN [mm]	PVC-U FPM ANSI Code	PVC-U FPM JIS Code	ABS EPDM metr BS ANSI Code	ı	PP-H EPDM met ic BS ANSI Code	-
75 90 110 140 160 225 280 315	2 ½ 3 4 5 6 8 10 12	65 80 100 125 150 200 250 300	161 367 191 161 367 192	161 367 695 161 367 696 161 367 697 161 367 698 161 367 699 161 367 700 161 367 371	169 367 626 169 367 627 169 367 629		167 367 625 167 367 626 167 367 627 167 367 628 167 367 629	
d [mm]	Inch	DN [mm]	PP-H EPDM met- ric Code	PP-H EPDM ANSI Code	PP-H EPDM JI Code		PP-H FPM metrio BS ANSI Code	С
75 90 110 140 160	2 ½ 3 4 5 6	65 80 100 125 150					167 367 635 167 367 636 167 367 637 167 367 638 167 367 639	
225 280 315	8 10 12	200 250 300	167 367 051 167 367 052	167 367 171 -	167 367 351 -		167 367 640	
d [mm]	Inch	DN [mm]	PP-H FPM metric Code	PP-H FPM ANSI Code	PP-H FPM JIS Code		H PTFE/FPM ric BS ANSI le	
75 90 110 140 160 225 280 315	2 ½ 3 4 5 6 8 10 12	65 80 100 125 150 200 250 300	167 367 071 167 367 072	167 367 191 -	167 367 371 -	167 167 167 167	367 535 367 536 367 537 367 538 367 539 367 540	
d [mm]	Inch	DN [mm]	PVDF FPM metric BS ANSI Code					
75 90 110 140 160	2 ½ 3 4 5 6	65 80 100 125 150	175 367 635 175 367 636 175 367 637 175 367 638 175 367 639					
225 280 315	8 10 12	200 250 300	175 367 640					

+GF+ 521



Disc seal set

Model:

• Disc set consisting of: disc, sealing ring and belleville washer steel galvanized (5)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
75	2 ½	65	161 483 040	161 483 052	-	-	-
90	3	80	161 483 041	161 483 053	163 481 351	163 481 359	169 480 826
110	4	100	161 483 042	161 483 054	163 481 352	163 481 360	169 480 827
140	5	125	161 483 043	161 483 055	-	-	169 480 829
160	6	150	161 483 044	161 483 056	163 481 354	163 481 362	-
225	8	200	161 483 045	161 483 057	163 481 355	163 481 363	-

d [mm]		DN [mm]	PP-H EPDM Code	PP-H FPM Code	PP-H PTFE/FPM Code	PVDF FPM Code
75 2	2 ½	65	167 480 909	167 480 917	167 484 012	175 480 910
90	3	80	167 480 910	167 480 918	167 484 013	175 480 911
110	4	100	167 480 911	167 480 919	167 484 014	175 480 912
140	5	125	167 480 912	167 480 920	167 484 015	175 480 913
160	6	150	167 480 913	167 480 921	167 484 016	175 480 914
225	8	200	167 480 914	167 480 922	167 484 017	175 480 915

Disc shaft set DN250-DN300

Model

• Disc shaft set consisting of: disc and shaft without sealing

	- Cilai			aloo aria oric
d [mm]	Inch	DN [mm]	PVC-U Code	PP-H Code
280 315		1	161 482 656 161 482 657	167 480 931 167 480 932



Seal set DN250-DN300

d	Inch	DN	EPDM	FPM
[mm]		[mm]	Code	Code
280 315			161 482 664 161 482 665	161 482 668 161 482 669



Bearing bush (7)

d [mm]	Inch	DN [mm]	PVC-U PP T20 Code	PVDF Code
75	2 ½	65	167 480 334	175 480 109
90	3	80	167 480 335	175 480 110
110	4	100	167 480 336	175 480 111
140	5	125	167 480 337	175 480 112
160	6	150	167 480 338	175 480 113



d [mm]	Inch	DN [mm]	PVC-U PP T20 Code	PVDF Code
225 280			167 480 339	175 480 114 175 480 805
315	12	300		175 480 805



Shaft set (6)

d	Inch	DN	Code
[mm]		[mm]	
75	2 ½	65	161 483 135
90	3	l	161 483 136
110	4	100	161 483 137
140	5	l	161 483 138
160	6		161 483 139
225	8	200	161 483 140



Lever with index plate (3, 4)

d [mm]	Inch	DN [mm]	PVC-U black Code	PVDF Code
75	2 ½	65	161 486 192	175 483 069
90	3	80	161 486 193	175 483 070
110	4	100	161 486 194	175 483 071
140	5	125	161 486 195	175 483 072
160	6	150	161 486 196	175 483 073
225	8	200	161 486 197	175 483 074

Index plate set

Model:

• Index plate set DN80-DN200 with lever, DN250-DN300 without lever



Lever

d [mm]	Inch		PVC-U Code
280	10	250	161 483 987
315	12	300	161 483 987



Reduction gear with handwheel (3)

d [mm]	Inch	DN [mm]	Code
75	2 ½	65	161 482 408
90	3	80	161 482 408
110	4	100	161 482 408
125	4 1/2	125	161 482 408
160	6	150	161 482 408
225	8	200	161 482 408

table continued next page

d [mm]	Inch	DN [mm]	Code
280	10	250	161 483 462
315	12	300	161 483 462
355	14	350	161 483 422
400	16	400	161 483 423
450	18	450	161 483 423
500	20		161 483 423
630	24	600	161 483 424



Handwheel for reduction gear (3)

d	Inch	DN	Code
[mm]		[mm]	
75	2 ½	65	161 483 464
90	3	80	161 483 464
110	4	100	161 483 464
125	4 1/2	125	161 483 464
160	6	150	161 483 464
225	8	200	161 483 464
280	10	250	161 483 464
315	12	300	161 483 464



Mounting block set (2)

d [mm]	Inch	DN [mm]	PVC-U Code
75	2 ½	65	161 484 768
90	3	80	161 484 769
110	4	100	161 484 770
140	5	125	161 484 771
160	6	150	161 484 772
225	8	200	161 484 773
280	10		161 484 774
315	12	300	161 484 774

Plug PE O-ring EPDM (8)

d [mm]	Inch	DN [mm]	PE Code	EPDM Code
[]		[]	Code	Oode
75	2 ½	65	161 480 784	748 410 123
90	3	80	161 481 400	748 410 137
110	4	100	161 481 400	748 410 137
140	5	125	161 481 401	748 410 138
160	6	150	161 481 402	748 410 139
225	8	200	161 481 402	748 410 139
280	10	250	161 481 401	748 410 139
315	12	300	161 481 401	748 410 139

Intermediate element

Pneumatic type 240 / 241 / 242 Without manual override

d [mm]	DN [mm]	Type of actuator	Code
63	50	PA30 FC/FO	198 000 595
63	50	PA35 DA	198 000 595
75	65	PA30 FC/FO	198 000 595
75	65	PA35 DA	198 000 595
90	80	PA40 DA	198 000 595
90	80	PA35 FC/FO	198 000 596
110	100	PA40 FC/FO	198 000 600
110	100	PA45 DA	198 000 600
140	125	PA45 DA	198 000 600

table continued next page

d [mm]	DN [mm]	Type of actuator	Code
140	125	PA45 FC/FO	198 000 597
160	150	PA55 DA	198 000 600
160	150	PA50 FC	198 000 599
225	200	PA55 FC/FO	198 000 598
225	200	PA55 DA	198 000 600
280	250	FA65 FC/FO	198 000 730
280	250	PA65 DA	198 000 731
315	300	PA70 FC/FO	198 000 730
315	300	PA70 DA	198 000 731

Pneumatic type 240 / 241 / 242 With manual override

d [mm]	DN [mm]	Type of actuator	Code
63	50	PA30 FC/FO	198 000 630
63	50	PA35 DA	198 000 630
75	65	PA30 FC/FO	198 000 630
75	65	PA35 DA	198 000 630
90	80	PA40 DA	198 000 631
90	80	PA35 FC/FO	198 000 630
110	100	PA40 FC/FO	198 000 628
110	100	PA45 DA	198 000 628
140	125	PA45 DA	198 000 629
140	125	PA45 FC/FO	198 000 628
160	150	PA55 DA	198 000 625
160	150	PA50 FC	198 000 625
225	200	PA55 FC/FO	198 000 627
225	200	PA55 DA	198 000 625

Electric type 140 / 141 / 142 Without manual override

d [mm]	DN [mm]	Type of actuator	Code
-	-		
63	50	EA31	198 000 601
75	65	EA31	198 000 601
90	80	EA31	198 000 601
110	100	EA31	198 000 602
140	125	EA31	198 000 602
160	150	EA31	198 000 599
225	200	EA42	198 000 603
280	250	EA42	198 000 732
315	300	EA42	198 000 732

Electric type 140 / 141 / 142 With manual override

d-d [mm]	DN-DN [mm]	Type of actuator	Code
63 - 90 110 - 140 - 160 - 225		EA31 EA31	198 000 623 198 000 624 198 000 625 198 000 627

Gear operated with handwheel 567 / 568

d [mm]	DN [mm]	Code
[11111]	[min]	
63	50	198 000 621
75	65	198 000 621
90	80	198 000 621
110	100	198 000 622
table c	ontinue	d next page

d [mm]	DN [mm]	Code
140	125	198 000 622
160	150	198 000 599
225	200	198 000 599
280	250	198 000 880
315	300	198 000 880

Reduction gear with handwheel



d [mm]	Inch	DN [mm]	Code
75	2 ½	65	161 482 408
90	3	80	161 482 408
110	4	100	161 482 408
125	4 1/2	125	161 482 408
160	6	150	161 482 408
225	8	200	161 482 408
280	10	250	161 483 462
315	12	300	161 483 462

526 +GF+

Spare parts diaphragm valves new generation

Spare parts for hand-operated valves Type 514/515/517/519





Bonnet complete

d [mm]	Inch	DN [mm]	Standard configuration PN10 Code	For pressure tight housing PN10 Code	Standard configuration PN16 Code	
20	1/2	15	198 151 742	198 151 752	198 151 842	
25	3/4	20	198 151 743	198 151 753	198 151 843	
32	1	25	198 151 744	198 151 754	198 151 844	
40	1 1/4	32	198 151 745	198 151 755	198 151 845	
50	1 1/2	40	198 151 746	198 151 756	198 151 846	
63	2	50	198 151 747	198 151 757	198 151 847	
d [mm]	Inch	DN [mm]	For pressure tight housing PN16			

d [mm]	Inch	DN [mm]	For pressure tight housing PN16 Code	
20	1/2	15	198 151 852	
25	3/4	20	198 151 853	
32	1	25	198 151 854	
40	1 1/4	32	198 151 855	
50	1 ½	40	198 151 856	
63	2	50	198 151 857	



Hand wheel

Model:

• Without position indicator

DN [mm]	Code			
25 - 32	198 204 162 198 204 164 198 104 166			



Position indicator

d [mm]	Inch	DN [mm]	Code
20	1/2	15	167 484 992
25	3/4	20	167 484 993
32	1	25	167 484 994
40	1 1/4	32	167 484 995
50	1 ½	40	167 484 996
63	2	50	167 484 997



Spindle assembly

Model:

• Incl. position indicator and compressor

DN-DN [mm]	Code	
25 - 32	198 204 327 198 204 328 198 204 329	1 328



Seal set

Model:

- For manual valve pressure tight housingIncl. position indicator

d [mm]	Inch	DN [mm]	EPDM Code
20	1/2	_	198 000 892
25	3/4	20	198 000 893
32	1	25	198 000 894
40	1 1/4	32	198 000 895
50	1 ½	40	198 000 896
63	2	50	198 000 897

Spare parts for automatic valves Diastar Six/Ten/Sixteen



Actuators



d [mm]	Inch	DN [mm]	Diastar Six Code	Diastar Ten Code	Diastar Ten+ FC Code	Diastar Sixteen FC Code
20	1/2	15	198 151 762	198 151 772	198 153 062	198 151 782
25	3/4	20	198 151 763	198 151 773	198 153 063	198 151 783
32	1	25	198 151 764	198 151 774	198 153 064	198 151 784
40	1 1/4	32	198 151 765	198 151 775	198 153 065	198 151 785
50	1 1/2	40	198 151 766	198 151 776	198 153 066	198 151 786
63	2	50	198 151 767	198 151 777	198 153 067	198 151 787



d [mm]	Inch	DN [mm]	Diastar Ten FO Code	Diastar Ten DA Code
20	1/2	15	198 151 792	198 151 802
25	3/4	20	198 151 793	198 151 803
32	1	25	198 151 794	198 151 804
40	1 1/4	32	198 151 795	198 151 805
50	1 ½	40	198 151 796	198 151 806
63	2	50	198 151 797	198 151 807

Indicator cap



Size	Code
1-2	198 806 639
3-5	198 806 640

Compressor set

Model:

• Incl. diaphragm holder

d	Inch	DN	Code
[mm]		[mm]	
20	1/2	15	198 000 872
25	3/4	20	198 000 873
32	1	25	198 000 874
40	1 1/4	32	198 000 875
50	1 1/2	40	198 000 876
63	2	50	198 000 877

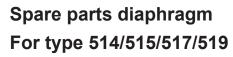


Seal set

Model:

• Spindle seal and piston seal

Size	Diastar Six/Ten/ Sixteen Code	Only for Diastar Six DN40/DN50 Code
Gr 1	198 000 881	_
		1-
Gr. 2	198 000 882	-
Gr. 3	198 000 883	198 000 886
	198 000 884	
_		1-
Gr. 5	198 000 885	-



EPDM

Code

DN NBR Code

Inch DN

[mm]



20	1/2	15	745 500 012	748 500 012	749 500 012	747 502 012	747 502 032
25	3/4	20	745 500 013	748 500 013	749 500 013	747 502 013	747 502 033
32	1	25	745 500 014	748 500 014	749 500 014	747 502 014	747 502 034
40	1 1/4	32	745 500 015	748 500 015	749 500 015	747 502 015	747 502 035
50	1 ½	40	745 500 016	748 500 016	749 500 016	747 502 016	747 502 036
63	2	50	745 500 017	748 500 017	749 500 017	747 502 017	747 502 037
d	Inch	DN	PTFE/FPM				
[mm]		[mm]	Code				
20	1/2	15	747 503 012				
25	3/4	20	747 503 013				
32	1	25	747 503 014				
			141 000 014				
40	1 1/4	32	747 503 015				
40 50	· ·						

FPM

Code

PTFE/EPDM HP

Code

PTFE/EPDM

Code

530 **+GF+**

Spare parts for valve body type 514 Valve body with true union



• Without connection parts



d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
20	1/2	15	161 492 062	163 482 052	169 481 322	167 483 522	175 483 682
25	3/4	20	161 492 063	163 482 053	169 481 323	167 483 523	175 483 683
32	1	25	161 492 064	163 482 054	169 481 324	167 483 524	175 483 684
40	1 1/4	32	161 492 065	163 482 055	169 481 325	167 483 525	175 483 685
50	1 1/2	40	161 492 066	163 482 056	169 481 326	167 483 526	175 483 686
63	2	50	161 492 067	163 482 057	169 481 327	167 483 527	175 483 687

d [mm]	Inch	DN [mm]	PVDF HP Code
20	1/2	15	180 001 002
25	3/4	20	180 001 003
32	1	25	180 001 004
40	1 1/4	32	180 001 005
50	1 ½	40	180 001 006
63	2	50	180 001 007



Union end

d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-U JIS Code	PVC-U BS Code	PVC-U ASTM Code	ABS metric Code
20	1/2	15	721 500 106	721 605 106	721 601 106	721 602 006	729 800 106
25	3/4	20	721 500 107	721 605 107	721 601 107	721 602 007	729 800 107
32	1	25	721 500 108	721 605 108	721 601 108	721 602 008	729 800 108
40	1 1/4	32	721 500 109	721 605 109	721 601 109	721 602 009	729 800 109
50	1 ½	40	721 500 110	721 605 110	721 601 110	721 602 010	729 800 110
63	2	50	721 500 111	721 605 111	721 601 111	721 602 011	729 800 111
d	Inch	DN	PP-H metric	PVDF metric	PVC-C metric	PVC-C ANSI	ABS BS
		D.11	i i -ii iiietiic			1 10 0 71101	ADS DS
[mm]		[mm]	Code	Code	Code	Code	Code
[mm] 20	1/2						
	1/ ₂ 3/ ₄	[mm]	Code	Code	Code	Code	Code
20	, -	[mm]	Code 727 500 106	Code 735 600 106	Code 723 800 106	Code 723 602 006	Code 729 601 106
20 25	, -	[mm] 15 20	Code 727 500 106 727 500 107	735 600 106 735 600 107	Code 723 800 106 723 800 107	Code 723 602 006 723 602 007	Code 729 601 106 729 601 107
20 25 32	³ / ₄ 1	[mm] 15 20 25	Code 727 500 106 727 500 107 727 500 108	735 600 106 735 600 107 735 600 108	Code 723 800 106 723 800 107 723 800 108	Code 723 602 006 723 602 007 723 602 008	729 601 106 729 601 107 729 601 108





Valve end with spigot

d [mm]	Inch	DN [mm]	PVC-U Code	PP-H SDR11 Code	PVDF Code	PE100 SDR11 Code	PE100 long Code
20	1/2	15	721 600 406	727 508 506	735 608 606	753 508 606	753 508 616
25	3/4	20	721 600 407	727 508 507	735 608 607	753 508 607	753 508 617
32	1	25	721 600 408	727 508 508	735 608 608	753 508 608	753 508 618
40	1 1/4	32	721 600 409	727 508 509	735 608 609	753 508 609	753 508 619
50	1 1/2	40	721 600 410	727 508 510	735 608 610	753 508 610	753 508 620
63	2	50	721 600 411	727 508 511	735 608 611	753 508 611	753 508 621



Union nut

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
20	1/2	15	721 890 006	723 690 006	729 890 406	727 890 406	735 690 406	
25	3/4	20	721 890 007	723 690 007	729 890 407	727 890 407	735 690 407	
32	1	25	721 890 008	723 690 008	729 890 408	727 890 408	735 690 408	
40	1 1/4	32	721 890 009	723 690 009	729 890 409	727 890 409	735 690 409	
50	1 ½	40	721 890 010	723 690 010	729 890 410	727 890 410	735 690 410	
63	2	50	721 890 011	723 690 011	729 890 411	727 890 411	735 690 411	



O-ring

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	FPM for PVDF standard Code	FPM for PVDF-HP Code	
20	1/2	15	748 410 006	749 410 006	749 410 005	749 411 005	
25	3/4	20	748 410 007	749 410 007	749 410 006	749 411 006	
32	1	25	748 410 008	749 410 008	749 410 120	749 411 120	
40	1 1/4	32	748 410 009	749 410 009	749 410 062	749 411 062	
50	1 ½	40	748 410 010	749 410 010	749 410 172	749 411 172	
63	2	50	748 410 011	749 410 011	749 410 054	749 411 054	

Spare parts for valve body type 515 Valve body with spigot ends



Inch	DN [mm]	PVC-U solvent ce- ment spigot Code	PVC-C solvent ce- ment spigot Code	ABS solvent ce- ment spigot Code	
1/2	15	161 492 072	163 482 062	169 481 862	
3/4	20	161 492 073	163 482 063	169 481 863	
1	25	161 492 074	163 482 064	169 481 864	
1 1/4	32	161 492 075	163 482 065	169 481 865	
1 ½	40	161 492 076	163 482 066	169 481 866	
2	50	161 492 077	163 482 067	169 481 867	
	1/ ₂ 3/ ₄ 1 1 1/ ₄ 1 1/ ₂	[mm] 1/2 15 3/4 20 1 25 1 1/4 32 1 1/2 40	[mm] ment spigot Code 12 15 161 492 072 34 20 161 492 073 1 25 161 492 074 1 14 32 161 492 075 1 12 40 161 492 076	[mm] ment spigot Code ment spigot Code ½ 15 161 492 072 163 482 062 ¾ 20 161 492 073 163 482 063 1 25 161 492 074 163 482 064 1 ¼ 32 161 492 075 163 482 065 1 ½ 40 161 492 076 163 482 066	ment spigot ment spigot ment spigot Code Code Code ½ 15 161 492 072 163 482 062 169 481 862 ¾ 20 161 492 073 163 482 063 169 481 863 1 25 161 492 074 163 482 064 169 481 864 1 ¼ 32 161 492 075 163 482 065 169 481 865 1 ½ 40 161 492 076 163 482 066 169 481 866



d [mm]	Inch	DN [mm]	PP-H socket fu- sion spigot Code	PP-H butt fusion spigot IR Code	PP-N butt fusion spigot IR Code
20	1/2	15	167 483 342	167 483 882	168 480 462
25	3/4	20	167 483 343	167 483 883	168 480 463
32	1	25	167 483 344	167 483 884	168 480 464
40	1 1/4	32	167 483 345	167 483 885	168 480 465
50	1 ½	40	167 483 346	167 483 886	168 480 466
63	2	50	167 483 347	167 483 887	168 480 467



d [mm]	Inch	DN [mm]	PVDF socket fu- sion spigot Code	PVDF butt fusion spigot IR Code	PVDF-HP butt fusion spigot IR Code
20	1/2	15	175 483 692	175 483 742	180 001 012
25	3/4	20	175 483 693	175 483 743	180 001 013
32	1	25	175 483 694	175 483 744	180 001 014
40	1 1/4	32	175 483 695	175 483 745	180 001 015
50	1 1/2	40	175 483 696	175 483 746	180 001 016
63	2	50	175 483 697	175 483 747	180 001 017

Spare parts for valve body type 517 Valve body with flange connection



d [mm]	Inch	DN [mm]	PVC-U JIS Code	PP-H JIS Code	PVDF JIS Code
20	1/2	15	161 480 282	167 484 402	175 483 532
25	3/4	20	161 480 283	167 484 403	175 483 533
32	1	25	161 480 284	167 484 404	175 483 534
40	1 1/4	32	161 480 285	167 484 405	175 483 535
50	1 ½	40	161 480 286	167 484 406	175 483 536
63	2	50	161 480 287	167 484 407	175 483 537



Flange adaptor flat

d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-C metric Code	ABS metric Code	PP-H metric Code	
20	1/2	15	721 800 106	723 790 106	729 790 106	727 790 206	
25	3/4	20	721 800 107	723 790 107	729 790 107	727 790 207	
32	1	25	721 800 108	723 790 108	729 790 108	727 790 208	
40	1 1/4	32	721 800 109	723 790 109	729 790 109	727 790 209	
50	1 ½	40	721 800 110	723 790 110	729 790 110	727 790 210	
63	2	50	721 790 111	723 790 111	729 790 111	727 790 211	

d [mm]	Inch	DN [mm]	PVDF metric Code
20	1/2	15	735 790 206
25	3/4	20	735 790 207
32	1	25	735 790 208
40	1 1/4	32	735 790 209
50	1 ½	40	735 790 210
63	2	50	735 790 211



Flange

d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-U ASTM Code	PP-V metric Code	PP-V ASTM Code	PP-ST metric Code
20	1/2	15	721 700 006	721 702 206	727 700 406	727 701 406	727 700 206
25	3/4	20	721 700 007	721 702 207	727 700 407	727 701 407	727 700 207
32	1	25	721 700 008	721 702 208	727 700 408	727 701 408	727 700 208
40	1 1/4	32	721 700 009	721 702 209	727 700 409	727 701 409	727 700 209
50	1 1/2	40	721 700 010	721 702 210	727 700 410	727 701 410	727 700 210
63	2	50	721 700 011	721 702 211	727 700 411	727 701 411	727 700 211

d [mm]	Inch	DN [mm]	PP-ST ASTM Code
20	1/2	15	727 701 206
25	3/4		727 701 207
32	1	25	727 701 208
40	1 1/4	32	727 701 209
50	1 ½	40	727 701 210
63	2	50	727 701 211



Flat gasket

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
20	1/2	15	748 400 006	749 400 006
25	3/4	20	748 400 007	749 400 007
32	1	25	748 400 008	749 400 008
40	1 1/4	32	748 400 009	749 400 009
50	1 ½	40	748 400 010	749 400 010
63	2	50	748 400 011	749 400 011

Spare parts for valve body type 519 Valve body with butt fusion spigot



d [mm]	Inch	PP-H Code	PP-Natur Code	PVDF-HP Code
20 - 20	1/2	167 485 911	168 480 601	180 001 101
25 - 20	3/4	167 485 912	168 480 602	180 001 102
25 - 25	3/4	167 485 913	168 480 603	180 001 103
32 - 20	1	167 485 914	168 480 604	180 001 104
32 - 25	1	167 485 915	168 480 605	180 001 105
32 - 32	1	167 485 916	168 480 606	180 001 106
40 - 20	1 1/4	167 485 917	168 480 607	180 001 107
40 - 25	1 1/4	-	-	180 001 108
40 - 32	1 1/4	-	-	180 001 109

table continued next page

d [mm]	Inch	PP-H Code	PP-Natur Code	PVDF-HP Code	
40 - 40	1 1/4	-	-	180 001 110	
50 - 20	1 ½	167 485 922	168 480 611	180 001 111	
50 - 25	1 ½	167 485 923	168 480 612	180 001 112	
50 - 32	1 ½	167 485 924	168 480 613	180 001 113	
50 - 40	1 ½	-	-	180 001 114	
50 - 50	1 ½	-	-	180 001 115	
63 - 20	2	167 485 927	168 480 616	180 001 116	
63 - 25	2	167 485 928	168 480 617	180 001 117	
63 - 32	2	167 485 929	168 480 618	180 001 118	
63 - 40	2	-	-	180 001 119	
63 - 50	2	-	-	180 001 120	
63 - 63	2	-	_	180 001 121	
90 - 25	3	-	-	180 001 126	
90 - 32	3	-	-	180 001 127	
90 - 50	3	-	-	180 001 128	
90 - 63	3	-	-	180 001 129	
110 - 20	4	-	-	180 001 130	
110 - 25	4	-	-	180 001 131	
110 - 32	4	-	-	180 001 132	
110 - 50	4	-	-	180 001 133	
110 - 63	4	-	-	180 001 134	

534 +GF+

Spare parts diaphragm valves

Spare parts diaphragm valve type 314





Bonnet complete

Model:

• Without diaphragm (1, 3)

			.ug (1, 0)		
d [mm]	Inch	DN [mm]	elastomer di- aphragm Code	PTFE diaphragm Code	
20	1/2	15	161 484 625	161 484 632	
25	3/4	20	161 484 626	161 484 633	
32	1	25	161 484 627	161 484 634	
40	1 1/4	32	161 484 628	161 484 635	
50	1 ½	40	161 484 629	161 484 636	
63	2	50	161 484 630	161 484 637	



Diaphragm (2)

d [mm]	Inch	DN [mm]	NBR Code	EPDM Code	FPM Code	PTFE/EPDM Code	PTFE/FPM Code
20	1/2	15	161 311 710	161 481 022	161 481 092	161 311 698	161 481 926
25	3/4	20	161 311 711	161 481 023	161 481 093	161 311 699	161 481 927
32	1	25	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
40	1 1/4	32	161 311 713	161 481 025	161 481 095	161 311 701	161 481 929
50	1 1/2	40	161 311 714	161 481 026	161 481 096	161 311 702	161 481 930
63	2	50	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931

d [mm]	Inch	DN [mm]	CSM Code	PTFE/EPDM SYGEF PLUS HP Code	
20	1/2	15	161 311 728	161 484 452	
25	3/4	20	161 311 729	161 484 453	
32	1	25	161 311 730	161 484 454	
40	1 1/4	32	161 311 731	161 484 455	
50	1 ½	40	161 311 732	161 484 456	
63	2	50	161 311 733	161 484 457	



Pressure spindel (3)

d [mm]	Inch	DN [mm]	elastomer di- aphragm Code	PTFE diaphragm Code
20	1/2	15	161 484 688	161 484 696
25	3/4	20	161 484 689	161 484 697
32	1	25	161 484 690	161 484 698
40	1 1/4	32	161 484 691	161 484 699
50	1 1/2	40	161 484 692	161 484 700
63	2	50	161 484 693	161 484 701









Fastening set (4)

Model:

• * with support plate



Valve body (5)

d [mm]	Inch	DN [mm]	PVC-U Code	PP-H Code	PVDF Code	
20	1/2	15	161 481 218	167 481 977	175 481 977	
25	3/4	20	161 481 219	167 481 978	175 481 978	
32	1	25	161 481 220	167 481 979	175 481 979	
40	1 1/4	32	161 481 221	167 481 980	175 481 980	
50	1 1/2	40	161 481 222	167 481 981	175 481 981	
63	2	50	161 481 223	167 481 982	175 481 982	



Union nut

d [mm]	Inch	DN [mm]	PVC-U Code	PP-H Code	PVDF Code
20	1/2	15	721 690 006	727 690 406	735 690 406
25	3/4	20	721 690 007	727 690 407	735 690 407
32	1	25	721 690 008	727 690 408	735 690 408
40	1 1/4	32	721 690 009	727 690 409	735 690 409
50	1 ½	40	721 690 010	727 690 410	735 690 410
63	2	50	721 690 011	727 690 411	735 690 411



Valve end

d	Inch	DN	PVC-U metric	PVC-U JIS	PVC-U BS	PVC-U ASTM	PP-H metric
[mm]		[mm]	Code	Code	Code	Code	Code
20	1/2	15	721 600 106	721 605 106	721 601 106	721 602 006	727 600 106
25	3/4	20	721 600 107	721 605 107	721 601 107	721 602 007	727 600 107
32	1	25	721 600 108	721 605 108	721 601 108	721 602 008	727 600 108
40	1 1/4	32	721 600 109	721 605 109	721 601 109	721 602 009	727 600 109
50	1 ½	40	721 600 110	721 605 110	721 601 110	721 602 010	727 600 110
63	2	50	721 600 111	721 605 111	721 601 111	721 602 011	727 600 111
d	Inch	DN	PVDF metric	PE80			`
[mm]		[mm]	Code	Code			
20	1/2	15	735 600 106	734 600 106			
25	3/4	20	735 600 107	734 600 107			
32				704 000 400			
32	1	25	735 600 108	734 600 108			
32 40	1 1/4	32	735 600 108 735 600 109	734 600 108 734 600 109			
- 1		_					





Valve end with spigot

d [mm]	Inch	DN [mm]	PVC-U Code	PP-H SDR11 Code	PVDF Code	PE100 SDR11 Code	PE100 long Code
20	1/2	15	721 600 406	727 508 506	735 608 606	753 508 606	753 508 616
25	3/4	20	721 600 407	727 508 507	735 608 607	753 508 607	753 508 617
32	1	25	721 600 408	727 508 508	735 608 608	753 508 608	753 508 618
40	1 1/4	32	721 600 409	727 508 509	735 608 609	753 508 609	753 508 619
50	1 ½	40	721 600 410	727 508 510	735 608 610	753 508 610	753 508 620
63	2	50	721 600 411	727 508 511	735 608 611	753 508 611	753 508 621





Threaded bush



Union end seal for PVC-U valves

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
20	1/2	15	748 410 038	749 410 038
25	3/4	20	748 410 044	749 410 044
32	1	25	748 410 195	749 410 195
40	1 1/4	32	748 410 052	749 410 052
50	1 ½	40	748 410 134	749 410 134
63	2	50	748 410 135	749 410 135



Union end seal for PP-H and PVDF valves

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
20	1/2	15	748 410 006	749 410 006
25	3/4	20	748 410 007	749 410 007
32	1	25	748 410 008	749 410 008
40	1 1/4	32	748 410 009	749 410 009
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011

Spare parts diaphragm valve type 315





Bonnet complete

Model:

• Without diaphragm (1, 3)

d [mm]	Inch	DN [mm]	elastomer di- aphragm Code	PTFE diaphragm Code
20	1/2	15	161 484 625	161 484 632
-				
25	3/4	20	161 484 626	161 484 633
32	1	25	161 484 627	161 484 634
40	1 1/4	32	161 484 628	161 484 635
50	1 1/2	40	161 484 629	161 484 636
63	2	50	161 484 630	161 484 637



Diaphragm (2)

d [mm]	Inch	DN [mm]	NBR Code	EPDM Code	FPM Code	PTFE/EPDM Code	PTFE/FPM Code
20	1/2	15	161 311 710	161 481 022	161 481 092	161 311 698	161 481 926
25	3/8	20	161 311 711	161 481 023	161 481 093	161 311 699	161 481 927
32	1	25	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
40	1 1/4	32	161 311 713	161 481 025	161 481 095	161 311 701	161 481 929
50	1 ½	40	161 311 714	161 481 026	161 481 096	161 311 702	161 481 930
63	2	50	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931

d [mm]	Inch	DN [mm]	CSM Code	PTFE/EPDM SYGEF PLUS HP Code	
20	1/2	15	161 311 728	161 484 452	
25	3/8	20	161 311 729	161 484 453	
32	1	25	161 311 730	161 484 454	
40	1 1/4	32	161 311 731	161 484 455	
50	1 ½	40	161 311 732	161 484 456	
63	2	50	161 311 733	161 484 457	



Pressure spindel (3)

d [mm]	Inch	DN [mm]	elastomer di- aphragm Code	PTFE diaphragm Code
20	1/2	15	161 484 688	161 484 696
25	3/4	20	161 484 689	161 484 697
32	1	25	161 484 690	161 484 698
40	1 1/4	32	161 484 691	161 484 699
50	1 1/2	40	161 484 692	161 484 700
63	2	50	161 484 693	161 484 701





Model:

• * with support plate

d [mm]	Inch	DN [mm]	for PVC-U PVC-C ABS Code	for PP PVDF * Code
20	1/2	15	161 484 704	198 000 650
25	3/4	20	161 484 705	198 000 651
32	1	25	161 484 706	198 000 652
40	1 1/4	32	161 484 707	198 000 653
50	1 1/2	40	161 484 708	198 000 654
63	2	50	161 484 709	198 000 655



Valve body metric (5)

		1		I		
d	Inch	DN	PVC-U solvent ce-	PVC-C solvent ce-	ABS solvent ce-	
[mm]		[mm]	ment spigot	ment spigot	ment spigot	
			Code	Code	Code	
20	1/2	15	161 481 274	163 480 271	169 480 162	
25	3/4	20	161 481 275	163 480 272	169 480 163	
32	1	25	161 481 276	163 480 273	169 480 164	
40	1 1/4	32	161 481 277	163 480 274	169 480 165	
50	1 1/2	40	161 481 278	163 480 275	169 480 166	
63	2	50	161 481 279	163 480 276	169 480 167	
75	2 ½	65			169 480 281	
d	Inch	DN	PP-H socket fu-	PP-H butt fusion	PP-N butt fusion	
[mm]		[mm]	sion spigot	spigot	spigot	
			Code	Code	Code	
20	1/2	15	167 480 328	167 481 175	168 480 125	
25	3/4	20	167 480 329	167 481 176	168 480 126	
32	1	25	167 480 330	167 481 177	168 480 127	
40	1 1/4	32	167 480 331	167 481 178	168 480 128	
50	1 1/2	40	167 480 332	167 481 179	168 480 129	
63	2	50	167 480 333	167 481 180	168 480 130	
75	2 ½	65				
d	Inch	DN	PVDF socket fu-	PVDF butt fusion	PVDF-HP butt fu-	
[mm]		[mm]	sion spigot	spigot IR	sion spigot IR	
[]		[]	Code	Code	Code	
20	1/2	15	175 480 069	175 481 840	175 481 850	
25	3/4	20	175 480 070	175 481 841	175 481 851	
32	1	25	175 480 071	175 481 842	175 481 852	
40	1 1/4	32	175 480 072	175 481 843	175 481 853	
50	1 1/2	40	175 480 073	175 481 844	175 481 854	
63	2	50	175 480 074	175 481 845	175 481 855	
75	2 ½	65				
						1



Valve body BS/ASTM (5)

Inch	DN [mm]	PVC-U solvent ce- ment spigot Code	PVC-C solvent ce- ment spigot Code	ABS solvent ce- ment spigot Code	
1/2	15	161 481 286	163 480 135	169 480 050	
3/4	20	161 481 287	163 480 136	169 480 051	
1	25	161 481 288	163 480 137	169 480 052	
1 1/4	32	161 481 289	163 480 138	169 480 053	
1 ½	40	161 481 290	163 480 139	169 480 054	
2	50	161 481 291	163 480 140	169 480 055	

Spare parts diaphragm valve type 317



Bonnet complete

Model:

• Without diaphragm (1, 3)

			- , ,	
d [mm]	Inch	DN [mm]	elastomer di- aphragm Code	PTFE diaphragm Code
20	1/2	15	161 484 625	161 484 632
25	3/4	20	161 484 626	161 484 633
32	1	25	161 484 627	161 484 634
40	1 1/4	32	161 484 628	161 484 635
50	1 ½	40	161 484 629	161 484 636
63	2	50	161 484 630	161 484 637
75	2 ½	65	161 484 631	161 484 638
90	3	80	161 482 514	161 482 516
110	4	100	161 482 515	161 482 517
160	6	150	161 482 901	161 482 906

5

Diaphragm (2)

d [mm]	Inch	DN [mm]	NBR Code	EPDM Code	FPM Code	PTFE/EPDM Code	PTFE/FPM Code
20	1/2	15	161 311 710	161 481 022	161 481 092	161 311 698	161 481 926
25	3/4	20	161 311 711	161 481 023	161 481 093	161 311 699	161 481 927
32	1	25	161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
40	1 1/4	32	161 311 713	161 481 025	161 481 095	161 311 701	161 481 929
50	1 ½	40	161 311 714	161 481 026	161 481 096	161 311 702	161 481 930
63	2	50	161 311 715	161 481 027	161 481 097	161 311 703	161 481 931
75	2 ½	65	161 480 231	161 481 028	161 481 098	161 480 240	161 481 932
90	3	80	161 480 232	161 481 029	161 481 099	161 480 241	-
110	4	100	161 480 233	161 481 030	161 481 100	161 480 242	-
160	6	150	161 482 751	161 482 754	161 481 102	161 482 760	-

d [mm]	Inch	DN [mm]	PTFE/EPDM HP Code	CSM Code
20	1/2	15	161 484 452	161 311 728
25	3/4	20	161 484 453	161 311 729
32	1	25	161 484 454	161 311 730
40	1 1/4	32	161 484 455	161 311 731
50	1 ½	40	161 484 456	161 311 732
63	2	50	161 484 457	161 311 733
75	2 ½	65	161 484 458	161 480 237
90	3	80	161 484 459	161 480 238
110	4	100	161 484 460	161 480 239
160	6	150	161 482 760	161 482 757

540 +GF+



Pressure spindel (3)

d [mm]	Inch	DN [mm]	elastomer di- aphragm Code	PTFE diaphragm Code
20	1/2	15	161 484 688	161 484 696
25	3/4	20	161 484 689	161 484 697
32	1	25	161 484 690	161 484 698
40	1 1/4	32	161 484 691	161 484 699
50	1 ½	40	161 484 692	161 484 700
63	2	50	161 484 693	161 484 701
75	2 ½	65	161 484 694	161 484 702
90	3	80	161 483 008	161 483 020
110	4	100	161 483 009	161 483 021
125	6	150	161 483 011	161 483 023



Fastening set (4)

Model:

• * with support plate

d [mm]	Inch	DN [mm]	for PVC-U PVC-C ABS Code	for PP PVDF * Code
20	1/2	15	161 484 704	198 000 650
25	3/4		161 484 705	198 000 651
32	1	25	161 484 706	198 000 652
40	1 1/4	32	161 484 707	198 000 653
50	1 1/2	40	161 484 708	198 000 654
63	2	50	161 484 709	198 000 655
75	2 ½	65	161 483 032	161 483 032
90	3	80	161 483 033	161 483 033
110	4	100	161 483 034	161 483 034
160	6	150	161 483 037	161 483 037



Valve body with backing/fixed flange (5)

Inch	d [mm]	DN [mm]	PVC-U metric Code	PVC-U JIS Code	PVC-U BS Code	PVC-U ANSI B16.5 Code	
1/2	20	15	161 483 110	161 483 978	161 483 110	161 484 743	
3/4	25	20	161 483 111	161 483 979	161 483 111	161 484 744	
1	32	25	161 483 112	161 483 980	161 483 112	161 484 745	
1 1/4	40	32	161 483 113	161 483 981	161 483 113	161 484 746	
1 ½	50	40	161 483 114	161 483 982	161 483 114	161 484 747	
2	63	50	161 483 115	161 483 983	161 483 115	161 484 748	
2 ½	75	65	161 483 116	161 483 984	161 483 116	161 484 749	
3	90	80	161 481 764	161 482 400	161 481 764		
4	110	100	161 481 765	161 482 401	161 481 765		
6	160	150	161 482 696	161 482 696	161 481 696		
Inch	d	DN	PVC-C metric	ABS ANSI	PP-H metric	PP-H ANSI	PP-GF JIS
	[mm]	[mm]	Code	Code	Code	Code	Code
1/2	20	15	163 480 808		167 484 025	167 484 035	167 481 552
3/4	25	_			167 484 026	167 484 036	167 481 553
³⁄₄ 1	25 32	20	163 480 809		1	1	167 481 553 167 481 554
		20	163 480 809 163 480 810		167 484 026	167 484 036	
1	32	20 25	163 480 809 163 480 810 163 480 811		167 484 026 167 484 027	167 484 036 167 484 037	167 481 554
1 1 ¼	32 40	20 25 32	163 480 809 163 480 810 163 480 811 163 480 812		167 484 026 167 484 027 167 484 028	167 484 036 167 484 037 167 484 038	167 481 554 167 481 555
1 1 ¼ 1 ½	32 40 50 63	20 25 32 40	163 480 809 163 480 810 163 480 811 163 480 812 163 480 813		167 484 026 167 484 027 167 484 028 167 484 029	167 484 036 167 484 037 167 484 038 167 484 039	167 481 554 167 481 555 167 481 556
1 1 1/4 1 1/2 2	32 40 50 63	20 25 32 40 50	163 480 809 163 480 810 163 480 811 163 480 812 163 480 813 163 480 814	169 480 282	167 484 026 167 484 027 167 484 028 167 484 029 167 484 030	167 484 036 167 484 037 167 484 038 167 484 039 167 484 040	167 481 554 167 481 555 167 481 556
1 1 1/4 1 1/2 2 2 1/2	32 40 50 63 75	20 25 32 40 50 65	163 480 809 163 480 810 163 480 811 163 480 812 163 480 813 163 480 814 163 480 677	169 480 282 169 480 283	167 484 026 167 484 027 167 484 028 167 484 029 167 484 030 167 484 031	167 484 036 167 484 037 167 484 038 167 484 039 167 484 040 167 484 041	167 481 554 167 481 555 167 481 556

Inch	d [mm]	DN [mm]	PVDF metric Code	PVDF ANSI Code	PVDF JIS Code	PP-V/PP-GF met- ric Code
1/2	20	15	175 482 975	-	175 481 943	
3/4	25	20	175 482 976	-	175 481 944	
1	32	25	175 482 977	-	175 481 945	
1 1/4	40	32	175 482 978	-	175 481 946	
1 ½	50	40	175 482 979	-	175 481 947	
2	63	50	175 482 980	-	175 481 948	
2 ½	75	65	175 482 981	-	175 481 949	169 480 392
3	90	80	175 480 189	-	175 480 737	
4	110	100	175 480 190	175 480 748	175 480 738	
6	160	150	175 481 002	175 481 002	175 481 002	



O-ring seal (6)

d [mm]	Inch	DN [mm]	EPDM Code	NBR Code
90	3	80	-	745 410 107
110	4	100	-	745 410 107
160	6	150	748 410 212	-

Indicator cap (7)

d [mm]	Inch		PVC-U SAN Code
90	3	80	161 481 759
110	4	100	161 481 760
160	6	150	161 482 744

542 +GF+

Spare parts diaphragm valve type 319







Bonnet complete

Model:

• Without diaphragm (1, 3)

d [mm]	Inch	elastomer di- aphragm Code	PTFE diaphragm Code	
20-20	1/2	161 484 625	161 484 632	
25-20		161 484 626	161 484 633	
25-25		161 484 626	161 484 633	
32-20	1	161 484 627	161 484 634	
32-25	1	161 484 627	161 484 634	
32-32	1	161 484 627	161 484 634	
40-20	1 1/4		161 484 634	
40-25 40-32	1 1/4	161 484 627 161 484 627	175 481 860 175 481 860	
40-32	1 1/4	161 484 628	175 481 861	
50-20	1 ½		161 484 634	
50-25	1 ½		161 484 634	
50-32	1 ½		161 484 634	
50-40	1 ½	161 484 629	175 481 862	
50-50	1 ½	161 484 629	175 481 862	
63-20	2	161 484 627	161 484 634	
63-25	2		161 484 634	
63-32	2		161 484 634	
63-40	2	161 484 630 161 484 630	175 481 863 175 481 863	
63-50				
63-63	2	161 484 630	175 481 863	
75-40 75-50	2 ½ 2 ½		175 481 861 175 481 863	
75-50 75-63	2 1/2		175 481 863	
90-20	3	161 484 627	161 484 634	
90-25	3	161 484 627	161 484 634	
90-32	3	161 484 627	161 484 634	
90-50	3	161 484 630	161 484 636	
90-63	3	161 484 630	161 484 636	
110-20	4	161 484 627	161 484 634	
110-25	4	161 484 627	161 484 634	
110-32	4		161 484 634	
110-50	4	161 484 630	161 484 636	
110-63	4	161 484 630	161 484 636	



Diaphragm (2)

d	Inch	NBR	EPDM	FPM	PTFE/EPDM	PTFE/FPM
[mm]		Code	Code	Code	Code	Code
20-20		161 311 710	161 481 022	161 481 092	161 311 698	161 481 926
25-20		161 311 711	161 481 023	161 481 093	161 311 699	161 481 927
25-25		161 311 711	161 481 023	161 481 093	161 311 699	161 481 927
32-20		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
32-25		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
32-32		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
40-20		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
40-25		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
40-32		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
40-40		161 311 713	161 481 025	161 481 095	161 311 701	161 481 929
50-20		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
50-25		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
50-32		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
50-40		161 311 714	161 481 026	161 481 096	161 311 702	161 481 930
50-50		161 311 714	161 481 026	161 481 096	161 311 702	161 481 930
63-20		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
63-25		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
63-32		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
63-40		161 311 715	161 481 027	161 481 097	161 311 703	161 481 931
63-50		161 311 715	161 481 027	161 481 097	161 311 703	161 481 931
63-63		161 311 715	161 481 027	161 481 097	161 311 703	161 481 931
75-40		161 311 715	161 481 025	161 481 095	161 311 701	161 481 929
75-50		161 311 715	161 481 027	161 481 095	161 311 703	161 481 931
75-63		161 311 715	161 481 027	161 481 097	161 311 703	161 481 931
90-20		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
90-25		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
90-32		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
90-50		161 311 715	161 481 027	161 481 097	161 311 703	161 481 931
90-63		161 311 715	161 481 027	161 481 097	161 311 703	161 481 931
110-20		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
110-25		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
110-32		161 311 712	161 481 024	161 481 094	161 311 700	161 481 928
110-50		161 311 715	161 481 027	161 481 097	161 311 703	161 481 931
110-63		161 311 715	161 481 027	161 481 097	161 311 703	161 481 931
d [mm]	Inch	CSM Code	PTFE/EPDM SYGEF PLUS Code			
20-20 25-20 25-25		161 311 728 161 311 729 161 311 729	161 484 452 161 484 453 161 484 453			

110-03		101 311 713	101 401 021	1014	101 031	101 311 703	101 401 3
d [mm]	Inch	CSM Code	PTFE/EPDM SYGEF PLUS Code				
20-20 25-20 25-25 32-20 32-25		161 311 728 161 311 729 161 311 729 161 311 730 161 311 730	161 484 452 161 484 453 161 484 453 161 484 454 161 484 454				
32-32 40-20 40-25 40-32 40-40		161 311 730 161 311 730 161 311 730 161 311 730 161 311 731	161 484 454 161 484 454 161 484 454 161 484 455				
50-20 50-25 50-32 50-40 50-50		161 311 730 161 311 730 161 311 730 161 311 732 161 311 732	161 484 454 161 484 454 161 484 454 161 484 456 161 484 456				
63-20 63-25 63-32 63-40 63-50		161 311 730 161 311 730 161 311 730 161 311 733 161 311 733	161 484 454 161 484 454 161 484 454 161 484 457 161 484 457				
63-63 75-40 75-50 75-63 90-20		161 311 733 161 311 731 161 311 733 161 311 733 161 311 730	161 484 457 161 484 455 161 484 457 161 484 457 161 484 454				
90-25		161 311 730	161 484 454				

table continued next page

d [mm]	Inch	CSM Code	PTFE/EPDM SYGEF PLUS Code	
90-32		161 311 730	161 484 454	
90-50		161 311 733	161 484 457	
90-63		161 311 733	161 484 457	
110-20		161 311 730	161 484 454	
110-25		161 311 730	161 484 454	
110-32		161 311 730	161 484 454	
110-50		161 311 733	161 484 457	
110-63		161 311 733	161 484 457	



Pressure spindel (3)

d [mm]	Inch	elastomer di- aphragm	PTFE diaphragm Code	
[]		Code	Code	
20-20	1/2	161 484 688	161 484 696	
25-20	3/4		161 484 697	
25-25	3/4		161 484 697	
32-20	1	161 484 690	161 484 698	
32-25	1	161 484 690	161 484 698	
32-32	1	161 484 690	161 484 698	
40-20	1 1/4		161 484 698	
40-25	1 1/4		161 484 698	
40-32	1 1/4		161 484 698	
40-40	1 1/4	161 484 691	161 484 699	
50-20	1 ½		161 484 698	
50-25	1 1/2		161 484 698	
50-32	1 ½		161 484 698	
50-40	1 ½		161 484 700	
50-50	1 ½	161 484 692	161 484 700	
63-20	2	161 484 690	161 484 698	
63-25	2	161 484 690	161 484 698	
63-32	2	161 484 690	161 484 698	
63-40	2	161 484 693	161 484 701	
63-50	2	161 484 693	161 484 701	
63-63	2	161 484 693	161 484 701	
75-40	2 ½	161 484 691	161 484 699	
75-50	2 ½		161 484 701	
75-63	2 ½		161 484 701	
90-20	3	161 484 690	161 484 698	
90-25	3	161 484 690	161 484 698	
90-32	3	161 484 690	161 484 698	
90-50	3	161 484 693	161 484 701	
90-63 110-20	3	161 484 693 161 484 690	161 484 701 161 484 698	
110-25	4	161 484 690	161 484 698	
110-32	4	161 484 690	161 484 698	
110-50	4	161 484 693	161 484 701	
110-63	4	161 484 693	161 484 701	



Fastening set (4)

d [mm]	Inch	Code
20-20	1/2	198 000 650
25-20	3/4	198 000 651
25-25	3/4	198 000 651
32-20	1	198 000 652
32-25	1	198 000 652
32-32	1	198 000 652
40-20	1 1/4	198 000 652
40-25	1 1/4	198 000 652
40-32	1 1/4	198 000 652
40-40	1 1/4	198 000 653
50-20	1 ½	198 000 652
table conti	nued na	avt nane

d [mm]	Inch	Code
50-25 50-32 50-40	1 ½ 1 ½ 1 ½	198 000 652
50-50	1 1/2	l
63-20 63-25	2 2	198 000 652 198 000 652
63-32	2	198 000 652
63-40 63-50	2 2	198 000 655 198 000 655
63-63 75-40	2 1/2	198 000 655 198 000 653
75-50	2 ½	198 000 655
75-63 90-20	2 ½ 3	198 000 655 198 000 652
90-25	3	198 000 652
90-32 90-50	3	198 000 652 198 000 655
90-63 110-20	3 4	198 000 655 198 000 652
110-25	4	198 000 652
110-32	4	198 000 652
110-50 110-63	4 4	198 000 655 198 000 655

Spare parts comprehensive

Connecting parts for ball valves 546/543/523 Check valves 561/562, ventilating & bleed valves 591/595

Solvent cement socket



d [mm]	Inch	DN [mm]	PVC-U metric (G01) Code	PVC-U BS (G04) Code	PVC-U ASTM (G03) Code	
16	3/8	10	161 490 666	161 490 734	161 490 712	
20	1/2	15	161 490 667	161 490 735	161 490 713	
25	3/4	20	161 490 668	161 490 736	161 490 714	
32	1	25	161 490 669	161 490 737	161 490 715	
40	1 1/4	32	161 490 670	161 490 738	161 490 716	
50	1 1/2	40	161 490 671	161 490 739	161 490 717	
63	2	50	161 490 672	161 490 740	161 490 718	
75	2 ½	65	161 490 673	161 490 673	161 490 719	
90	3	80	161 490 674	161 490 742	161 490 720	
110	4	100	161 490 675	161 490 743	161 490 721	
d	Inch	DN	PVC-C metric	PVC-C ASTM	ABS metric (G20)	ADC DC (C24)
		Dit			, ,	ABS BS (G21)
[mm]		[mm]	(G11) Code	(G13) Code	Code	Code
[mm] —	3/8		(G11)	(G13)	, ,	, ,
		[mm]	(G11) Code	(G13) Code	Code	Code
16	3/8	[mm]	(G11) Code 163 481 275	(G13) Code 163 481 311	Code 169 480 775	Code 169 480 800
16	3/8 1/2	[mm] 10 15	(G11) Code 163 481 275 163 481 276	(G13) Code 163 481 311 163 481 312	Code 169 480 775 169 480 776	Code 169 480 800 169 480 801
16 20 25	3/ ₈ 1/ ₂ 3/ ₄	[mm] 10 15 20	(G11) Code 163 481 275 163 481 276 163 481 277	(G13) Code 163 481 311 163 481 312 163 481 313	Code 169 480 775 169 480 776 169 480 777	169 480 800 169 480 801 169 480 802
16 20 25 32	3/8 1/2 3/4 1	[mm] 10 15 20 25	(G11) Code 163 481 275 163 481 276 163 481 277 163 481 278	(G13) Code 163 481 311 163 481 312 163 481 313 163 481 314	Code 169 480 775 169 480 776 169 480 777 169 480 778	169 480 800 169 480 801 169 480 802 169 480 803
16 20 25 32 40	3/8 1/2 3/4 1 1 1/4	[mm] 10 15 20 25 32	(G11) Code 163 481 275 163 481 276 163 481 277 163 481 278 163 481 279	(G13) Code 163 481 311 163 481 312 163 481 313 163 481 314 163 481 315	Code 169 480 775 169 480 776 169 480 777 169 480 778 169 480 779	169 480 800 169 480 801 169 480 802 169 480 803 169 480 804
16 20 25 32 40 50	3/8 1/2 3/4 1 1 1/4 1 1/2	[mm] 10 15 20 25 32 40	(G11) Code 163 481 275 163 481 276 163 481 277 163 481 278 163 481 279 163 481 280	(G13) Code 163 481 311 163 481 312 163 481 313 163 481 314 163 481 315 163 481 316	Code 169 480 775 169 480 776 169 480 777 169 480 778 169 480 779 169 480 780	169 480 800 169 480 801 169 480 802 169 480 803 169 480 804 169 480 805
16 20 25 32 40 50 63	3/8 1/2 3/4 1 1 1/4 1 1/2 2	[mm] 10 15 20 25 32 40 50	(G11) Code 163 481 275 163 481 276 163 481 277 163 481 278 163 481 279 163 481 280 163 481 281	(G13) Code 163 481 311 163 481 312 163 481 313 163 481 314 163 481 315 163 481 316 163 481 317	Code 169 480 775 169 480 776 169 480 777 169 480 778 169 480 779 169 480 780 169 480 781	169 480 800 169 480 801 169 480 802 169 480 803 169 480 804 169 480 805 169 480 806

Solvent cement spigot

d [mm]	DN [mm]	PVC-U metric (G05) Code	PVC-C metric (G14) Code	
16	10	161 490 701	163 481 300	
20	15	161 490 702	163 481 301	
25	20	161 490 703	163 481 302	
32	25	161 490 704	163 481 303	
40	32	161 490 705	163 481 304	
50	40	161 490 706	163 481 305	
63	50	161 490 707	163 481 306	
75	65	161 490 708	163 481 307	
90	80	161 490 709	163 481 308	
110	100	161 490 710	163 481 309	



Threaded socket

Inch	DN [mm]	PVC-U Rp (G06) Code	PVC-U Rp rein- forced (G07) Code	PVC-U NPT (G09) Code	PVC-C Rp (G15) Code
3/8	10	161 490 690	161 490 825	161 490 723	163 481 286
1/2	15	161 490 691	161 490 826	161 490 724	163 481 287
3/4	20	161 490 692	161 490 827	161 490 725	163 481 288
1	25	161 490 693	161 490 828	161 490 726	163 481 289
1 1/4	32	161 490 694	161 490 829	161 490 727	163 481 290
1 ½	40	161 490 695	161 490 830	161 490 728	163 481 291
2	50	161 490 696	161 490 831	161 490 729	163 481 292

			1		
Inch	DN [mm]	PVC-U Rp (G06) Code	PVC-U Rp rein- forced (G07) Code	PVC-U NPT (G09) Code	PVC-C Rp (G15) Code
2 ½ 3 4	65 80 100	161 490 697 161 490 698 161 490 699		161 490 730 161 490 731 161 490 732	163 481 293 163 481 294 163 481 295
Inch	DN [mm]	PVC-C Rp rein- forced (G16) Code	PVC-C NPT (G17) Code	ABS Rp (G22) Code	ABS Rp rein- forced (G23) Code
3/8 1/2 3/4 1 1 1/4 1 1/2 2 1/2 3 4	10 15 20 25 32 40 50 65 80 100	163 481 400 163 481 401 163 481 402 163 481 403 163 481 404 163 481 405 163 481 406	163 481 322 163 481 323 163 481 324 163 481 325 163 481 326 163 481 327 163 481 328 163 481 329 163 481 330 163 481 331	169 480 786 169 480 787 169 480 788 169 480 789 169 480 790 169 480 791 169 480 792	169 480 925 169 480 926 169 480 927 169 480 928 169 480 929 169 480 930 169 480 931
Inch	DN [mm]	PP-H Rp rein- forced (G33) Code	PP-H NPT rein- forced (G34) Code	PVDF NPT (G53) Code)
3/8 1/2 3/4 1 1 1/4 1 1/2 2 1/2 3	10 15 20 25 32 40 50 65 80	167 482 911 167 482 912 167 482 913 167 482 914 167 482 915 167 482 916 167 482 917	167 482 966 167 482 967 167 482 968 167 482 969 167 482 970 167 482 971 167 482 972	175 483 058 175 483 059 175 483 060 175 483 061 175 483 062 175 483 063 175 483 064	



Fusion socket

d [mm]	DN [mm]	PP-H metric (G30) Code	PVDF metric (G50) Code	PE 100 metric (G40) Code	
16	10	167 482 900	175 483 025		
20	15	167 482 901	175 483 026	193 480 176	
25	20	167 482 902	175 483 027	193 480 177	
32	25	167 482 903	175 483 028	193 480 178	
40	32	167 482 904	175 483 029	193 480 179	
50	40	167 482 905	175 483 030	193 480 180	
63	50	167 482 906	175 483 031	193 480 181	
75	65	167 482 907			
90	80	167 482 908			
110	100	167 482 909			



Socket fusion spigot IR-Plus®

d [mm]	DN [mm]	PP-H metric (G32) Code	PVDF metric (G51) Code	
16	10	167 482 922	175 483 036	
20	15	167 482 923	175 483 037	
25	20	167 482 924	175 483 038	
32	25	167 482 925	175 483 039	
40	32	167 482 926	175 483 040	
50	40	167 482 927	175 483 041	
63	50	167 482 928	175 483 042	
75	65	167 482 929		
90	80	167 482 930		
110	100	167 482 931		



Butt fusion spigot IR-Plus®

32	d [mm]	DN [mm]	PP-H metric SDR11 (G35) Code	PP-H metric SDR17,6 (G36) Code	PP-H metric long SDR11 (G37) Code	PP-N metric SDR11 Code
25	20	15	167 482 945		167 482 956	168 480 260
32					1	168 480 261
50		25	167 482 947		167 482 958	168 480 262
63 50 167 482 950 167 482 939 167 482 961 168 480 265 75 65 167 482 951 167 482 940 167 482 953 167 482 941 167 482 942 167 167 482 942 167 167 167 167 167 167 16	40	32	167 482 948		167 482 959	168 480 263
75 65 167 482 951 167 482 940 167 482 952 167 482 941 170 100 167 482 953 167 482 942 167 167 167 167 167 167 167 167 167 167	50	40	167 482 949	167 482 938	167 482 960	168 480 264
75 65 167 482 951 167 482 940 167 482 952 167 482 941 170 100 167 482 953 167 482 942 167 167 167 167 167 167 167 167 167 167	63	50	167 482 950	167 482 939	167 482 961	168 480 265
110 100 167 482 953 167 482 942 DN		65	167 482 951	167 482 940	101 102 101	
DN	90	80	167 482 952	167 482 941		
[mm] [mm] (G52) (Code 20	110	100	167 482 953	167 482 942		
[mm] [mm] (G52) (Code 20	al .	DN	DVDE			
Code 20	-					
20	[mm]	lmmi	` '			
25						
32						
40 32 175 483 051 50 40 175 483 052 63 50 175 483 053 75 65 90 80						
50	25	20	175 483 049			
63 50 175 483 053 75 65 90 80	25 32	20 25	175 483 049 175 483 050			
75 65 90 80	25 32 40	20 25 32	175 483 049 175 483 050 175 483 051			
90 80	25 32 40	20 25 32	175 483 049 175 483 050 175 483 051			
	25 32 40 50	20 25 32 40	175 483 049 175 483 050 175 483 051 175 483 052			
440 400	25 32 40 50	20 25 32 40 50	175 483 049 175 483 050 175 483 051 175 483 052			
110 100	25 32 40 50 63 75	20 25 32 40 50 65	175 483 049 175 483 050 175 483 051 175 483 052			



Butt fusion spigot PE100 IR-Plus®

d [mm]	DN [mm]	metric SDR11 (G41) Code	metric SDR17,6 (G42) Code	metric long SDR11 (G43) Code	metric long SDR17,6 (G44) Code
20	15	193 480 102		193 480 152	
25	20	193 480 103		193 480 153	
32	25	193 480 104		193 480 154	
40	32	193 480 105		193 480 155	
50	40	193 480 106	193 480 087	193 480 156	
63	50	193 480 107	193 480 088	193 480 157	
75	65			193 480 158	193 480 168
90	80			193 480 159	193 480 169
110	100			193 480 160	193 480 170



Fixed flange

d [mm]	DN [mm]	PVC-U metric (G60) Code	PP-H metric (G63) Code	PVDF metric (G64) Code	
20	15	161 486 360	167 484 160	175 483 285	
25	20	161 486 361	167 484 161	175 483 286	
32	25	161 486 362	167 484 162	175 483 287	
40	32	161 486 363	167 484 163	175 483 288	
50	40	161 486 364	167 484 164	175 483 289	
63	50	161 486 365	167 484 165	175 483 290	



Backing flange

d [mm]	Inch	DN [mm]	PVC-U metric (G70) Code	PVC-U ANSI (G71) Code	PVC-U PP-St met- ric (G72) Code
20	1/2	15	161 486 265	161 486 275	161 486 285
25	3/4	20	161 486 266	161 486 276	161 486 286
32	1	25	161 486 267	161 486 277	161 486 287
40	1 1/4	32	161 486 268	161 486 278	161 486 288
50	1 ½	40	161 486 269	161 486 279	161 486 289
63	2	50	161 486 270	161 486 280	161 486 290

table continued next page

d [mm]	Inch	DN [mm]	PVC-U metric (G70) Code	PVC-U ANSI (G71) Code	PVC-U PP-St met- ric (G72) Code	
75 90 110	2 ½ 3 4	65 80 100	161 486 271 161 486 272 161 486 273	161 486 281 161 486 282 161 486 283	161 486 291 161 486 292 161 486 293	
d [mm]	Inch	DN [mm]	PVC-U PP-St ANSI (G73) Code	PVC-C PP-St met- ric (G72) Code	PVC-C PP-St ANSI (G73) Code	
20 25 32 40 50 63 75 90 110 d [mm]	1/2 3/4 1 1 1/4 1 1/2 2 1/2 3 4	15 20 25 32 40 50 65 80 100	161 486 425 161 486 426 161 486 427 161 486 428 161 486 429 161 486 430 161 486 431 161 486 432 161 486 433 PP-H PP-St metric (G72)	163 481 412 163 481 413 163 481 414 163 481 415 163 481 416 163 481 417 163 481 418 163 481 419 163 481 420 PP-H PP-St ANSI (G73)	163 481 425 163 481 426 163 481 427 163 481 428 163 481 429 163 481 430 163 481 431 163 481 432 163 481 433	
20 25 32 40 50 63 75 90	1/2 3/4 1 1 1/4 1 1/2 2 1/2 3 4	15 20 25 32 40 50 65 80	167 484 418 167 484 419 167 484 420	Code 167 484 065 167 484 066 167 484 067 167 484 068 167 484 070 167 484 071 167 484 072 167 484 073		



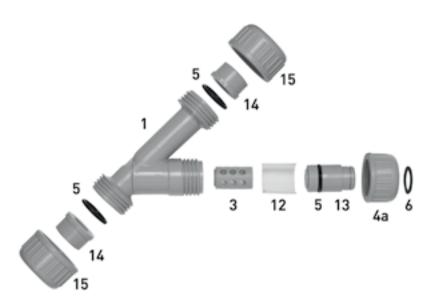
Union nut

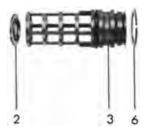
d	DN	PVC-U	PVC-C	ABS	PP-H	PVDF
[mm]	[mm]	Code	Code	Code	Code	Code
16	10	161 490 538	163 481 226	169 480 713	167 482 712	175 482 937
20	15	161 490 538	163 481 226	169 480 713	167 482 712	175 482 937
25	20	161 490 539	163 481 227	169 480 714	167 482 713	175 482 938
32	25	161 490 540	163 481 228	169 480 715	167 482 714	175 482 939
40	32	161 490 541	163 481 229	169 480 716	167 482 715	175 482 940
50	40	161 490 542	163 481 230	169 480 717	167 482 716	175 482 941
63	50	161 490 543	163 481 231	169 480 718	167 482 717	175 482 942
75	65	161 490 544	163 481 232	169 480 719	167 482 718	175 482 943
90	80	161 490 545	163 481 233	169 480 720	167 482 719	175 482 944
110	100	161 490 546	163 481 234	169 480 721	167 482 720	175 482 945

Spare parts line strainer

Spare parts line strainer type 305/306











Screen set

Model:

• Screen set PVC-U and PVC-C DN15-DN50 consisting of: screen (3), screen support ring (2) and circlip (6), PVC-U DN65-DN80: screen (3) and screen support ring (2). PP-H DN15-DN50: screen basket compl. with screen (3) and circlip (6)

d [mm]	Inch	DN [mm]	PVC-U Code	PP-H Code	PVC-C Code
20	1/2	15		167 305 001	163 305 330
25	3/4	20	161 483 127	167 305 002	163 305 331
32	1	25	161 483 128	167 305 003	163 305 332
40	1 1/4	32	161 483 129	167 305 004	163 305 333
50	1 ½	40	161 483 130	167 305 005	163 305 334
63	2	50	161 483 131	167 305 006	163 305 335
75	2 ½	65	161 483 132		
90	3	80	161 483 133		



Body (1)

d [mm]	Inch	DN [mm]	PVC-U transparent Code	PVC-U transparent ASTM Code	PVC-C Code	ABS Code
20	1/2	15	192 300 301	192 480 001	163 481 075	169 480 600
25	3/4	20	192 300 351	192 480 002	163 481 076	169 480 601
32	1	25	192 300 401	192 301 401	163 481 077	169 480 602
40	1 1/4	32	192 300 451	192 301 451	163 481 078	169 480 603
50	1 ½	40	192 300 501	192 301 501	163 481 079	169 480 604
63	2	50	192 300 551	192 301 551	163 481 080	169 480 605
75	2 ½	65	192 300 601			
90	3	80	192 300 651			
d	Inch	DN	PP-H			

d	Inch	DN	PP-H
	111011		
[mm]		[mm]	Code
20	1/2	15	167 305 010
25	3/4	20	
32	1	25	167 305 012
40	1 1/4	32	167 305 013
50	1 ½	40	167 305 014
63	2	50	167 305 015
75	2 ½	65	
90	3	80	





Screen cage (3)

Model:

• Screen cage in PVC-U, PVC-C and PP-H

		U	,			
d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	PP-H Code	
20	1/2	15	161 305 303	163 481 102	167 305 020	
25	3/4	20	161 305 353	163 481 103	167 305 021	
32	1	25	161 305 403	163 481 104	167 305 022	
40	1 1/4	32	161 305 453	163 481 105	167 305 023	
50	1 1/2	40	161 305 503	163 481 106	167 305 024	
63	2	50	161 305 553	163 481 107	167 305 025	
75	2 ½	65	161 305 603			
90	3	80	161 305 653			



Screen cage bracket (13)

Model:

• Only available for PP-H version

d [mm]	Inch	DN [mm]	PP-H Code
20	1/2	15	167 305 040
25	3/4	20	167 305 041
32	1	25	167 305 042
40	1 1/4	32	167 305 043
50	1 1/2	40	167 305 044
63	2	50	167 305 045





Valve end metric (14)

• Only available for PP-H version

d [mm]	Inch	DN [mm]	fusion socket PP- H Code	butt fusion spigot IR PP-H SDR11 Code
20	1/2	15	727 600 106	727 508 506
25	3/4	20	727 600 107	727 508 507
32	1	25	727 600 108	727 508 508

d [mm]	Inch	DN [mm]	fusion socket PP- H Code	butt fusion spigot IR PP-H SDR11 Code
40	1 1/4		727 600 109	727 508 509
50 63	1 ½		727 600 110 727 600 111	727 508 510 727 508 511



Valve nut (4a/15)

Model:

• Union nut PVC-U DN15-DN50, PP-H

d [mm]	Inch	DN [mm]	Cap nut PVC-U (4a) Code	Cap nut PVC-C (4a) Code	Cap nut ABS (4a) Code	
20	1/2	15	161 300 308	163 481 084	169 480 609	
25	3/4	20	161 300 358	163 481 085	169 480 610	
32	1	25	161 300 408	163 481 086	169 480 611	
40	1 1/4	32	161 300 458	163 481 087	169 480 612	
50	1 ½	40	161 300 508	163 481 088	169 480 613	
63	2	50	161 300 558	163 481 089	169 480 614	
d	Inch	DNI	O DD 11 /4->	O		
[mm]	Inch	DN [mm]	Cap nut PP-H (4a) Code	Connecting Nut PP-H (15) Code		
	1/2		Code	PP-H (15)		
[mm]		[mm]	Code	PP-H (15) Code		
[mm]	1/2	[mm] 15	Code 167 305 060	PP-H (15) Code 167 305 070		
[mm] 20 25	1/2 3/4	[mm] 15 20	Code 167 305 060 167 305 061 167 305 062	PP-H (15) Code 167 305 070 167 305 071		
[mm] 20 25 32	1/ ₂ 3/ ₄ 1	[mm] 15 20 25	Code 167 305 060 167 305 061 167 305 062	PP-H (15) Code 167 305 070 167 305 071 167 305 072		



Body seal (5)

Model:

• Body seal vor PVC-U and PP-H

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
20	1/2	15	748 410 006	749 410 006
25	3/4	20	748 410 001	749 410 001
32	1	25	748 410 007	749 410 007
40	1 1/4	32	748 410 002	749 410 002
50	1 1/2	40	748 410 003	749 410 003
63	2	50	748 410 012	749 410 012
75	2 ½	65	748 410 013	749 410 013
90	3	80	748 410 014	749 410 014



Screen perforation (7-11)

d [mm]	Inch	DN [mm]	PVC-U 0.5mm (7) Code	PVC-U 0.8mm (8) Code	PVC-U 1.4mm (9) Code	
20	1/2	15	161 305 339	161 305 338	161 305 337	
25	3/4	20	161 305 389	161 305 388	161 305 387	
32	1	25	161 305 439	161 305 438	161 305 437	
40	1 1/4	32	161 305 489	161 305 488	161 305 487	
50	1 1/2	40	161 305 539	161 305 538	161 305 537	
63	2	50	161 305 589	161 305 588	161 305 587	
75	2 ½	65	161 305 639	161 305 638	161 305 637	
90	3	80	161 305 689	161 305 688	161 305 687	

d [mm]	Inch	DN [mm]	PVC-U 2.2mm (10) Code	PP-H (12) Code	stainless steel 0.5mm AISI 316 (11) Code	
20	1/2	15	161 305 336	167 305 030	161 486 100	
25	3/4	20	161 305 386	167 305 031	161 486 101	
32	1	25	161 305 436	167 305 032	161 486 102	
40	1 1/4	32	161 305 486	167 305 033	161 486 103	
50	1 ½	40	161 305 536	167 305 034	161 486 104	
63	2	50	161 305 586	167 305 035	161 486 105	
75	2 ½	65	161 305 636		161 486 106	
90	3	80	161 305 686		161 486 107	



Plug (4b)

Model:

• Only for PVC-U DN65-DN80

d	Inch	DN	PVC-U
[mm]		[mm]	Code
75	2 ½	l .	161 305 604
90	3		161 305 654

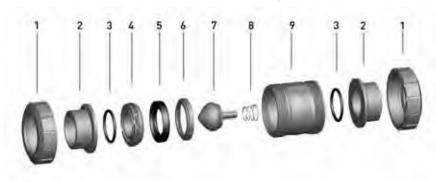


Circlip (6)

d [mm]	Inch	DN [mm]	PP-H Code	PVC-U Code
20	1/2	15	161 482 017	161 482 076
25	3/4	20	161 482 018	161 482 017
32	1	25	161 482 019	161 482 018
40	1 1/4	32	161 482 020	161 482 019
50	1 1/2	40	161 482 021	161 482 021
63	2	50	161 482 022	161 482 022

Spare parts cone check valves

Spare parts cone check valve type 561/562





Central part without spring

Model:

• Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 485 201	161 485 211	163 485 201	163 485 211	169 485 201
20	1/2	15	161 485 201	161 485 211	163 485 201	163 485 211	169 485 201
25	3/4	20	161 485 202	161 485 212	163 485 202	163 485 212	169 485 202
32	1	25	161 485 203	161 485 213	163 485 203	163 485 213	169 485 203
40	1 1/4	32	161 485 204	161 485 214	163 485 204	163 485 214	169 485 204
50	1 1/2	40	161 485 205	161 485 215	163 485 205	163 485 215	169 485 205
63	2	50	161 485 206	161 485 216	163 485 206	163 485 216	169 485 206
75	2 ½	65	161 485 207	161 485 217	163 485 207	163 485 217	169 485 207
90	3	80	161 485 208	161 485 218	163 485 208	163 485 218	169 485 208
110	4	100	161 485 209	161 485 219	163 485 209	163 485 219	169 485 209

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	3/8	10	167 485 201	167 485 211	175 485 211	
20	1/2	15	167 485 201	167 485 211	175 485 211	
25	3/4	20	167 485 202	167 485 212	175 485 212	
32	1	25	167 485 203	167 485 213	175 485 213	
40	1 1/4	32	167 485 204	167 485 214	175 485 214	
50	1 ½	40	167 485 205	167 485 215	175 485 215	
63	2	50	167 485 206	167 485 216	175 485 216	
75	2 ½	65	167 485 207	167 485 217	175 485 217	
90	3	80	167 485 208	167 485 218	175 485 218	
110	4	100	167 485 209	167 485 219	175 485 219	



Central part with spring

Model

• Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), spring V2A (8), profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 485 221	161 485 231	163 485 221	163 485 231	169 485 221
20	1/2	15	161 485 221	161 485 231	163 485 221	163 485 231	169 485 221
25	3/4	20	161 485 222	161 485 232	163 485 222	163 485 232	169 485 222
32	1	25	161 485 223	161 485 233	163 485 223	163 485 233	169 485 223
40	1 1/4	32	161 485 224	161 485 234	163 485 224	163 485 234	169 485 224
50	1 ½	40	161 485 225	161 485 235	163 485 225	163 485 235	169 485 225
63	2	50	161 485 226	161 485 236	163 485 226	163 485 236	169 485 226

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
75	2 ½	65	161 485 227	161 485 237	163 485 227	163 485 237	169 485 227
90	3	80	161 485 228	161 485 238	163 485 228	163 485 238	169 485 228
110	4	100	161 485 229	161 485 239	163 485 229	163 485 239	169 485 229

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	3/8	10	167 485 231	167 485 241	175 485 231	
20	1/2	15	167 485 231	167 485 241	175 485 231	
25	3/4	20	167 485 232	167 485 242	175 485 232	
32	1	25	167 485 233	167 485 243	175 485 233	
40	1 1/4	32	167 485 234	167 485 244	175 485 234	
50	1 ½	40	167 485 235	167 485 245	175 485 235	
63	2	50	167 485 236	167 485 246	175 485 236	
75	2 1/2	65	167 485 237	167 485 247	175 485 237	
90	3	80	167 485 238	167 485 248	175 485 238	
110	4	100	167 485 239	167 485 249	175 485 239	



Cone (7)

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PP-Talkum 20% Code
16	3/8	10	161 491 151	163 482 151	169 482 151	167 485 151	167 485 351
20	1/2	15	161 491 151	163 482 151	169 482 151	167 485 151	167 485 351
25	3/4	20	161 491 152	163 482 152	169 482 152	167 485 152	167 485 352
32	1	25	161 491 153	163 482 153	169 482 153	167 485 153	167 485 353
40	1 1/4	32	161 491 154	163 482 154	169 482 154	167 485 154	167 485 354
50	1 ½	40	161 491 155	163 482 155	169 482 155	167 485 155	167 485 355
63	2	50	161 491 156	163 482 156	169 482 156	167 485 156	167 485 356
75	2 1/2	65	161 491 157	163 482 157	169 482 157	167 485 157	167 485 357
90	3	80	161 491 158	163 482 158	169 482 158	167 485 158	167 485 358
110	4	100	161 491 159	163 482 159	169 482 159	167 485 159	167 485 359

d [mm]	Inch	DN [mm]	PVDF Code
16	3/8	10	175 484 151
20	1/2	15	175 484 151
25	3/4	20	175 484 152
32	1	25	175 484 153
40	1 1/4	32	175 484 154
50	1 ½	40	175 484 155
63	2	50	175 484 156
75	2 ½	65	175 484 157
90	3	80	175 484 158
110	4	100	175 484 159



Profile seal ring (5)

d	Inch	DN	EPDM	FPM
[mm]		[mm]	Code	Code
16	3/8	10	748 436 001	749 436 001
20	1/2	15	748 436 001	749 436 001
25	3/4	20	748 436 002	749 436 002
32	1	25	748 436 003	749 436 003
40	1 1/4	32	748 436 004	749 436 004
50	1 ½	40	748 436 005	749 436 005
63	2	50	748 436 006	749 436 006
75	2 ½	65	748 436 007	749 436 007
90	3	80	748 436 008	749 436 008
110	4	100	748 436 009	749 436 009



Seal set

Model:

• Seal set consisting of: profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 485 241	161 485 251
20	1/2	15	161 485 241	161 485 251
25	3/4	20	161 485 242	161 485 252
32	1	25	161 485 243	161 485 253
40	1 1/4	32	161 485 244	161 485 254
50	1 1/2	40	161 485 245	161 485 255
63	2	50	161 485 246	161 485 256
75	2 ½	65	161 485 247	161 485 257
90	3	80	161 485 248	161 485 258
110	4	100	161 485 249	161 485 259



Face seal (3)

d	Inch	DN	EPDM	FPM
[mm]		[mm]	Code	Code
16	3/8	10	748 410 059	749 410 059
20	1/2	15	748 410 059	749 410 059
25	3/4	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 1/4	32	748 410 062	749 410 062
50	1 1/2	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254



Spring (8)

Model:

• Material: V2A, code: 1.4310

• Material: NIMONIC 90, code: 2.4632

• Material: V2A, code: 1.4310, HALAR® coated

d [mm]	Inch	DN [mm]	Stainless steel V2A Code	V2A HALAR coated Code	NIMONIC 90 Code
16	3/8	10	161 485 132	161 485 142	161 485 152
20	1/2	15	161 485 132	161 485 142	161 485 152
25	3/4	20	161 485 132	161 485 142	161 485 152
32	1	25	161 485 133	161 485 143	161 485 153
40	1 1/4	32	161 485 134	161 485 144	161 485 154
50	1 ½	40	161 485 135	161 485 145	161 485 155
63	2	50	161 485 136	161 485 146	161 485 156
75	2 ½	65	161 485 137	161 485 147	161 485 157
90	3	80	161 485 138	161 485 148	161 485 158
110	4	100	161 485 139	161 485 149	161 485 159



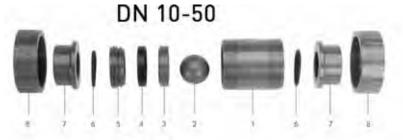


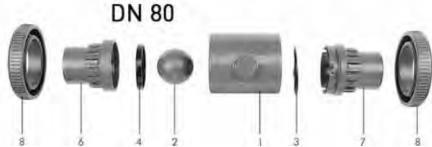
Handle for dismantling

d	Inch	DN	red	black
[mm]		[mm]	Code	Code
16	3/8	10	167 484 088	167 484 076
20	1/2	15	167 484 088	167 484 076
25	3/4	20	167 484 089	167 484 077
32	1	25	167 484 090	167 484 078
40	1 1/4	32	167 484 091	167 484 079
50	1 ½	40	167 484 092	167 484 080
63	2	50	167 484 093	167 484 081
75	2 ½	65	167 484 094	167 484 082
90	3	80	167 484 095	167 484 083
110	4	100	167 484 096	167 484 084

Spare parts ball check valves

Spare parts ball check valve type 360







Central part

Model:

• Central part consisting of: body (1), ball (2), support ring (3), sealing ring (4) and union bush (5)

		` '	,					
d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
16	3/8	10	161 483 851	161 483 861	163 480 645	163 480 655	169 480 250	
20	1/2	15	161 483 852	161 483 862	163 480 646	163 480 656	169 480 251	
25	3/4	20	161 483 853	161 483 863	163 480 647	163 480 657	169 480 252	
32	1	25	161 483 854	161 483 864	163 480 648	163 480 658	169 480 253	
40	1 1/4	32	161 483 855	161 483 865	163 480 649	163 480 659	169 480 254	
50	1 1/2	40	161 483 856	161 483 866	163 480 650	163 480 660	169 480 255	
63	2	50	161 483 857	161 483 867	163 480 651	163 480 661	169 480 256	

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code
16	3/8	10	167 481 125	167 481 135
20	1/2	15	167 481 126	167 481 136
25	3/4	20	167 481 127	167 481 137
32	1	25	167 481 128	167 481 138
40	1 1/4	32	167 481 129	167 481 139
50	1 ½	40	167 481 130	167 481 140
63	2	50	167 481 131	167 481 141



Ball (2)

d [mm]	Inch	DN [mm]	PVC-U Code	PP-H with talc density 1.24 Code	PP-H 100% Code	PVDF Code	
16	3/8	10	161 330 304	167 481 165	167 480 024	175 480 153	
20	1/2	15	161 330 304	167 481 165	167 480 024	175 480 153	
25	3/4	20	161 330 354	167 481 166	167 480 025	175 480 154	
32	1	25	161 330 404	167 481 167	167 480 026	175 480 155	
40	1 1/4	32	161 330 454	167 481 168	167 480 027	175 480 156	
50	1 ½	40	161 330 504	167 481 169	167 480 028	175 480 157	
63	2	50	161 330 554	167 481 170	167 480 029	175 480 158	
90	3	80	161 330 654				



Sealing ring (4)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 483 259	161 483 265
20	1/2	15	161 483 259	161 483 265
25	3/4	20	161 483 260	161 483 266
32	1	25	161 483 261	161 483 267
40	1 1/4	32	161 483 262	161 483 268
50	1 ½	40	161 483 263	161 483 269
63	2	50	161 483 264	161 483 270
90	3	80	161 480 141	161 480 149



Face seal (6)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	748 410 042	749 410 042
20	1/2	15	748 410 042	749 410 042
25	3/4	20	748 410 116	749 410 116
32	1	25	748 410 103	749 410 103
40	1 1/4	32	748 410 027	749 410 027
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011
90	3	80	748 410 099	749 410 099



Union nut (8)

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
16	3/8	10	161 340 617	163 480 995	169 480 101	167 480 786	175 480 819
20	1/2	15	161 340 617	163 480 995	169 480 101	167 480 786	175 480 819
25	3/4	20	161 340 618	163 480 081	169 480 102	167 480 787	175 480 820
32	1	25	161 340 619	163 480 082	169 480 103	167 480 788	175 480 821
40	1 1/4	32	161 340 620	163 480 083	169 480 104	167 480 789	175 480 822
50	1 1/2	40	161 340 621	163 480 084	169 480 105	167 480 790	175 480 823
63	2	50	161 480 522	163 480 085	169 480 106	167 480 791	175 480 824
90	3	80	161 340 623				



Valve end with socket (7)

d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-U JIS Code	PVC-U ANSI Code	PVC-U BS Code	PVC-C metric Code
16	3/8	10	161 480 536	161 484 601	161 482 377	161 480 543	163 480 522
20	1/2	15	161 480 537	161 484 602	-	161 480 544	163 480 523
25	3/4	20	161 480 538	161 484 603	161 482 379	161 480 545	163 480 524
32	1	25	161 480 539	161 484 604	161 482 380	161 480 546	163 480 525
40	1 1/4	32	161 480 540	161 484 605	161 482 381	161 480 547	163 480 526
50	1 1/2	40	161 480 541	161 484 606	161 482 382	161 480 548	163 480 527
63	2	50	161 480 542		161 482 383	161 480 549	163 480 528
d	Inch	DN	ABS metric	PE80 metric	PP-H metric	PP-H ANSI	PVDF metric

d [mm]	Inch	DN [mm]	ABS metric Code	PE80 metric Code	PP-H metric Code	PP-H ANSI Code	PVDF metric Code	
16	3/8	10	169 480 152	173 480 000	167 480 159	167 480 452	175 480 031	
20	1/2	15	169 480 153	173 480 001	167 480 160	167 480 453	175 480 032	
25	3/4	20	169 480 154	173 480 002	167 480 161	167 480 454	175 480 033	
32	1	25	169 480 155	173 480 003	167 480 162	167 480 455	175 480 034	
40	1 1/4	32	169 480 156	173 480 004	167 480 163	167 480 456	175 480 035	
50	1 1/2	40	169 480 157	173 480 005	167 480 164	167 480 457	175 480 036	
63	2	50	169 480 158	173 480 006	167 480 165	167 480 458	175 480 037	





Valve end with spigot (7)

d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-U metric in let and outlet Code	1-	PP-H metri Code	c PP Co	-H SDR1 [,] de	1 long
16 20 25 32 40 50 63 90	3/8 1/2 3/4 1 1 1/4 1 1/2 2 3 3	10 15 20 25 32 40 50 80	161 482 345 161 482 346 161 482 347 161 482 348 161 482 349 161 482 350 161 482 351	161 480 132 161 480 133		167 480 52 167 480 52 167 480 53 167 480 53 167 480 53 167 480 53 167 480 53	8 167 9 167 0 167 1 167 2 167	7 482 546 7 482 547 7 482 548 7 482 549 7 482 550 7 482 551	, , , , , , , , , , , , , , , , , , ,
d [mm]	Inch	DN [mm]	PP-H SDR11 IR Code	PP-H SDR17 Code		/DF metric	PVDF Code	metric	
16 20 25 32 40 50 63 90	% ½ ½ ¼ 1 1 ¼ 1 ½ 2 3 3 3	10 15 20 25 32 40 50 80 80	- 167 480 546 167 480 547 167 480 548 167 480 549 167 480 550 167 480 551	- 167 480 537 167 480 538 167 480 539 167 480 540 167 480 541 167 480 542	17 17 17 17 17	5 480 787 5 480 788 5 480 789 5 480 790 5 480 791 5 480 792 5 480 793	175 4 175 4 175 4 175 4 175 4	80 796 80 797 80 798 80 799 80 800 80 801 80 802	
d [mm]	Inch	DN [mm]	PE100 SDR11 Code	PE100 SDR11 long Code		PE100 SDF Code	R17,6		
16 20 25	3/8 1/2 3/4	10 15 20	193 480 027 193 480 028	193 480 127 193 480 128		193 480 01			

193 480 129

193 480 130

193 480 131

193 480 132

193 480 014 193 480 015

193 480 016

193 480 017

193 480 018



Threaded bush (7)

25

32

40

50

80

80

193 480 029

193 480 030

193 480 031

193 480 032

1

1 1/4

1 ½

2 3 3

32

40

50

63

90

90

• • • • •	Juu	ou buon	(')			
Inch	DN	PVC-U Rp	PVC-U Rc	PVC-U NPT	PP-H Rp	PP-H NPT
	[mm]	Code	Code	Code	Code	Code
3/8	10	161 480 550	-	161 482 389	167 480 166	167 480 452
1/2	15	161 480 551	161 484 610	-	167 480 167	167 480 453
3/4	20	161 480 552	161 484 611	161 482 391	167 480 168	167 480 454
1	25	161 480 553	161 484 612	161 482 392	167 480 169	167 480 455
1 1/4	32	161 480 554	161 484 613	161 482 393	167 480 170	167 480 456
1 1/2	40	161 480 555	161 484 614	161 482 394	167 480 171	167 480 457
2	50	161 480 556		161 482 395	167 480 172	167 480 458
Inch	DN	PVDF NPT				
	[mm]	Code				
3/8	10	175 480 727				
1/2	15	175 480 728				
3/4	20	175 480 729				
1	25	175 480 730				
1 1/4	32	175 480 731				
1 1/2	40	175 480 732				
2	50	175 480 733				



Fixed flange jointing face serrated metric

d [mm]	Inch	DN [mm]	PP-H Code	PVDF Code
20	1/2	15	727 740 106	735 740 106
25	3/4	20	727 740 107	735 740 107
32	1	25	727 740 108	735 740 108
40	1 1/4	32	727 740 109	735 740 109
50	1 ½	40	727 740 110	735 740 110
63	2	50	727 740 111	735 740 111



Seal set (4, 6)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	161 482 910	161 482 920
20	1/2	15	161 482 910	161 482 920
25	3/4	20	161 482 911	161 482 921
32	1	25	161 482 912	161 482 922
40	1 1/4	32	161 482 913	161 482 923
50	1 ½	40	161 482 914	161 482 924
63	2	50	161 482 915	161 482 925

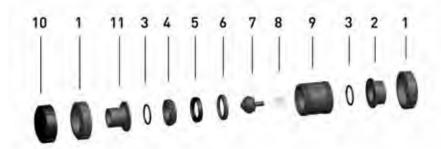


Body (1)

Inch DN PVC-U Code
3 80 161 480 158

Spare parts ventilating- and bleed valves

Spare parts ventilating- and bleed valve type 591/595





Central part without spring

Model:

• Central body consisting of: housing (9), union bush (4), support ring (6), floater PP-H/PVDF (7), profile seal ring (5) and face seal (3)

d	Inch	DN	PVC-U EPDM	PVC-U FPM	PVC-C EPDM	PVC-C FPM	ABS EPDM
[mm]		[mm]	Code	Code	Code	Code	Code
16	3/8	10	161 485 261	161 485 271	163 485 261	163 485 271	169 485 261
20	1/2	15	161 485 261	161 485 271	163 485 261	163 485 271	169 485 261
25	3/4	20	161 485 262	161 485 272	163 485 262	163 485 272	169 485 262
32	1	25	161 485 263	161 485 273	163 485 263	163 485 273	169 485 263
40	1 1/4	32	161 485 264	161 485 274	163 485 264	163 485 274	169 485 264
50	1 ½	40	161 485 265	161 485 275	163 485 265	163 485 275	169 485 265
63	2	50	161 485 266	161 485 276	163 485 266	163 485 276	169 485 266
75	2 1/2	65	161 485 267	161 485 277	163 485 267	163 485 277	169 485 267
90	3	80	161 485 268	161 485 278	163 485 268	163 485 278	169 485 268
110	4	100	161 485 269	161 485 279	163 485 269	163 485 279	169 485 269

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	3/8	10	167 485 261	167 485 271	175 485 271	
20	1/2	15	167 485 261	167 485 271	175 485 271	
25	3/4	20	167 485 262	167 485 272	175 485 272	
32	1	25	167 485 263	167 485 273	175 485 273	
40	1 1/4	32	167 485 264	167 485 274	175 485 274	
50	1 ½	40	167 485 265	167 485 275	175 485 275	
63	2	50	167 485 266	167 485 276	175 485 276	
75	2 ½	65	167 485 267	167 485 277	175 485 277	
90	3	80	167 485 268	167 485 278	175 485 278	
110	4	100	167 485 269	167 485 279	175 485 279	



Central part with spring

Model:

• Central body consisting of: housing (9), union bush (4), support ring (6), floater (7), spring Nimonic 90 Halar coated (8), profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 485 281	161 485 291	163 485 281	163 485 291	169 485 281
20	1/2	15	161 485 281	161 485 291	163 485 281	163 485 291	169 485 281
25	3/4	20	161 485 282	161 485 292	163 485 282	163 485 292	169 485 282
32	1	25	161 485 283	161 485 293	163 485 283	163 485 293	169 485 283
40	1 1/4	32	161 485 284	161 485 294	163 485 284	163 485 294	169 485 284
50	1 ½	40	161 485 285	161 485 295	163 485 285	163 485 295	169 485 285
63	2	50	161 485 286	161 485 296	163 485 286	163 485 296	169 485 286
75	2 ½	65	161 485 287	161 485 297	163 485 287	163 485 297	169 485 287
90	3	80	161 485 288	161 485 298	163 485 288	163 485 298	169 485 288
110	4	100	161 485 289	161 485 299	163 485 289	163 485 299	169 485 289

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 485 281	167 485 291	175 485 291
20	1/2	15	167 485 281	167 485 291	175 485 291
25	3/4	20	167 485 282	167 485 292	175 485 292
32	1	25	167 485 283	167 485 293	175 485 293
40	1 1/4	32	167 485 284	167 485 294	175 485 294
50	1 ½	40	167 485 285	167 485 295	175 485 295
63	2	50	167 485 286	167 485 296	175 485 296
75	2 ½	65	167 485 287	167 485 297	175 485 297
90	3	80	167 485 288	167 485 298	175 485 298
110	4	100	167 485 289	167 485 299	175 485 299



Cone (7)

Model:

• For type 595

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
16	3/8	10	161 491 151	163 482 151	169 482 151	167 485 151	175 484 151
20	1/2	15	161 491 151	163 482 151	169 482 151	167 485 151	175 484 151
25	3/4	20	161 491 152	163 482 152	169 482 152	167 485 152	175 484 152
32	1	25	161 491 153	163 482 153	169 482 153	167 485 153	175 484 153
40	1 1/4	32	161 491 154	163 482 154	169 482 154	167 485 154	175 484 154
50	1 ½	40	161 491 155	163 482 155	169 482 155	167 485 155	175 484 155
63	2	50	161 491 156	163 482 156	169 482 156	167 485 156	175 484 156
75	2 ½	65	161 491 157	163 482 157	169 482 157	167 485 157	175 484 157
90	3	80	161 491 158	163 482 158	169 482 158	167 485 158	175 484 158
110	4	100	161 491 159	163 482 159	169 482 159	167 485 159	175 484 159



Floater (7)

Model:

• For type 591

	1			·
d [mm]	Inch	DN [mm]	PP-H Code	PVDF Code
16	3/8	10	167 485 151	175 484 161
20	1/2	15	167 485 151	175 484 161
25	3/4	20	167 485 152	175 484 162
32	1	25	167 485 153	175 484 163
40	1 1/4	32	167 485 154	175 484 164
50	1 ½	40	167 485 155	175 484 165
63	2	50	167 485 156	175 484 166
75	2 ½	65	167 485 157	175 484 167
90	3	80	167 485 158	175 484 168
110	4	100	167 485 159	175 484 169



Profile seal ring (5)

d	Inch	DN	EPDM	FPM
[mm]		[mm]	Code	Code
16	3/8	10	748 436 001	749 436 001
20	1/2	15	748 436 001	749 436 001
25	3/4	20	748 436 002	749 436 002
32	1	25	748 436 003	749 436 003
40	1 1/4	32	748 436 004	749 436 004
50	1 ½	40	748 436 005	749 436 005
63	2	50	748 436 006	749 436 006
75	2 ½	65	748 436 007	749 436 007
90	3	80	748 436 008	749 436 008
110	4	100	748 436 009	749 436 009

Protective cap (10)

Model:

Protects the piping system from dirt particles out of the ambient air
 Can also be used as tool for opening and closing the valve union bushing

d [mm]	Inch	DN [mm]	PP-GF Code
16	3/8	10	167 485 361
20	1/2	15	167 485 361
25	3/4	20	167 485 362
32	1	25	167 485 363
40	1 1/4	32	167 485 364
50	1 ½	40	167 485 365
63	2	50	167 485 366



Seal set

Model:

• Seal set consisting of: profile seal ring (5) and face seal (3)

d	Inch	DN	EPDM	FPM
[mm]		[mm]	Code	Code
16	3/8	10	161 485 241	161 485 251
20	1/2	15	161 485 241	161 485 251
25	3/4	20	161 485 242	161 485 252
32	1	25	161 485 243	161 485 253
40	1 1/4	32	161 485 244	161 485 254
50	1 ½	40	161 485 245	161 485 255
63	2	50	161 485 246	161 485 256
75	2 ½	65	161 485 247	161 485 257
90	3	80	161 485 248	161 485 258
110	4	100	161 485 249	161 485 259



Face seal (3)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	748 410 059	749 410 059
20	1/2	15	748 410 059	749 410 059
25	3/4	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 1/4	32	748 410 062	749 410 062
50	1 ½	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254



Spring (8)

Model:

• Material: V2A, code: 1.4310, HALAR® coated

d [mm]	Inch	DN [mm]	NIMONIC 90 HALAR coated Code
16	3/8	10	161 485 112
20	1/2	15	161 485 112
25	3/4	20	161 485 112
32	1	25	161 485 113
40	1 1/4	32	161 485 114
50	1 ½	40	161 485 115
63	2	50	161 485 116
75	2 ½	65	161 485 117
90	3	80	161 485 118
110	4	100	161 485 119

564 +GF+

DN10/15 - 50



Handle for dismantling

d [mm]	Inch	DN [mm]	red Code	black Code
16	3/8	10	167 484 088	167 484 076
20	1/2	15	167 484 088	167 484 076
25	3/4	20	167 484 089	167 484 077
32	1	25	167 484 090	167 484 078
40	1 1/4	32	167 484 091	167 484 079
50	1 1/2	40	167 484 092	167 484 080
63	2	50	167 484 093	167 484 081
75	2 ½	65	167 484 094	167 484 082
90	3	80	167 484 095	167 484 083
110	4	100	167 484 096	167 484 084

Spare parts wafer check valves

Spare parts wafer check valve type 369





Seal set (1)

d	Inch	DN	EPDM	FPM
[mm]		[mm]	Code	Code
40	1 1/4	32	161 484 875	161 484 887
50	1 1/2	40	161 484 876	161 484 888
63	2	50	161 484 877	161 484 889
75	2 ½	65	161 484 878	161 484 890
90	3	80	161 484 879	161 484 891
110	4	100	161 484 880	161 484 892
140	5	125	161 484 881	161 484 893
160	6	150	161 484 882	161 484 894
225	8	200	161 484 883	161 484 895
280	10	250	161 484 884	161 484 896
315	12	300	161 484 885	161 484 897



Disc set (2)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
40	1 1/4	32	161 369 122	161 369 142	167 369 122	167 369 142	175 369 142
50	1 ½	40	161 369 123	161 369 143	167 369 123	167 369 143	175 369 143
63	2	50	161 369 124	161 369 144	167 369 124	167 369 144	175 369 144
75	2 ½	65	161 369 125	161 369 145	167 369 125	167 369 145	175 369 145
90	3	80	161 369 126	161 369 146	167 369 126	167 369 146	175 369 146
110	4	100	161 369 127	161 369 147	167 369 127	167 369 147	175 369 147
140	5	125	161 369 128	161 369 148	167 369 128	167 369 148	175 369 148
160	6	150	161 369 129	161 369 149	167 369 129	167 369 149	175 369 149
225	8	200	161 369 130	161 369 150	167 369 130	167 369 150	175 369 150
280	10	250	161 369 131	161 369 151	167 369 131	167 369 151	175 369 151
315	12	300	161 369 132	161 369 152	167 369 132	167 369 152	175 369 152



Spring (3)

d [mm]	Inch	DN [mm]	V4A Code	Hastelloy C Code
40	1 1/4	32	161 484 900	161 484 912
50	1 1/2	40	161 484 901	161 484 913
63	2	50	161 484 902	161 484 914
75	2 1/2	65	161 484 903	161 484 915
90	3	80	161 484 904	161 484 916
110	4	100	161 484 905	161 484 917
140	5	125	161 484 905	161 484 917

table continued next page

d [mm]	Inch	DN [mm]	V4A Code	Hastelloy C Code
160	6	150	161 484 907	161 484 919
	0			
225	8	200	161 484 908	161 484 920
280	10	250	161 484 909	161 484 921
315	12	300	161 484 910	161 484 922

Spare parts solenoid valves

Spare parts solenoid valve type 157 coil set

Voltage	Function	EPDM Code	FPM Code
24V DC	Α	198 808 000	198 808 006
24V DC	В	198 808 001	198 808 007
24V UC	Α	198 808 002	198 808 008
24V UC	В	198 808 003	198 808 009
230V AC	Α	198 808 004	198 808 010
230V AC	В	198 808 005	198 808 011

wear part set

EPDM FPM Code Code
.g. diaphragm 198 808 012 198 808 013

Spare parts solenoid valve type 160/161 coil set

UC 230 V UC 230 V/ 50Hz Code Code
308 014 198 808 015 198 808 01

spare part kit

Function	UC Code	50Hz Code
Α	198 808 017	198 808 021
В	198 808 018	-
E	198 808 019	-
F	198 808 020	198 808 022

wear part set

d [mm]	DN [mm]	EPDM Code	FPM Code
16	10	198 808 023	198 808 026
20	15	198 808 024	198 808 027
25	20	198 808 025	198 808 028

Spare parts solenoid valve type 165 coil set

Voltage	EPDM Code	FPM Code
24V DC	198 808 029	400 000 022
24V DC	190 000 029	190 000 032
230V AC	198 808 030	198 808 033
110V AC	198 808 031	198 808 034
1101710	130 000 001	130 000 004

wear part set

d-d [mm]	DN-DN [mm]	EPDM Code	FPM Code
20 - 25 32 - 40	_	198 808 035 198 808 036	
50 - 63		198 808 037	

Spare parts solenoid valve type 166 coil set

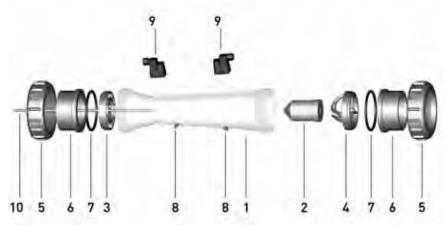
Voltage	Function	EPDM Code	FPM Code
24V DC	А	198 808 041	198 808 047
230V AC	Α	198 808 042	198 808 048
24V DC	С	198 808 043	-
24V UC	С	-	198 808 049
230V AC	С	198 808 044	198 808 050
24V DC	E	198 808 045	198 808 051
230V AC	E	198 808 046	198 808 052

wear part set

EPDM FPM Code
ı. diaphragm 198 808 053 198 808 054

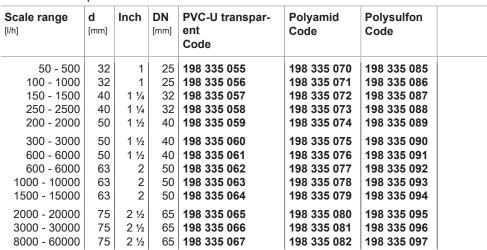
Spare parts variable area flow meters

Variable area flow meter type 335



Taper tube with water scale (1)

PVC-U transparent



Taper tube without scale (1)

Scale range [l/h]	d [mm]	Inch	DN [mm]	PVC-U transparent Code	Polyamid Code	Polysulfon Code	
50 - 500	32	1	25	198 335 255	198 335 270	198 335 285	
100 - 1000	32	1	25	198 335 256	198 335 271	198 335 286	
150 - 1500	40	1 1/4	32	198 335 257	198 335 272	198 335 287	
250 - 2500	40	1 1/4	32	198 335 258	198 335 273	198 335 288	
200 - 2000	50	1 ½	40	198 335 259	198 335 274	198 335 289	
300 - 3000	50	1 ½	40	198 335 260	198 335 275	198 335 290	
600 - 6000	50	1 1/2	40	198 335 261	198 335 276	198 335 291	
600 - 6000	63	2	50	198 335 262	198 335 277	198 335 292	
1000 - 10000	63	2	50	198 335 263	198 335 278	198 335 293	
1500 - 15000	63	2	50	198 335 264	198 335 279	198 335 294	
2000 - 20000	75	2 ½	65	198 335 265	198 335 280	198 335 295	
3000 - 30000	75	2 ½	65	198 335 266	198 335 281	198 335 296	
8000 - 60000	75	2 ½	65	198 335 267	198 335 282	198 335 297	









Insert PVDF (3,4)

Scale range [l/h]	d [mm]	Inch	DN [mm]	top (4) Code	bottom (3) Code	bottom (3) for PEEK guiding rod Code	
50 - 500	32	1	25	198 335 970	198 335 977		
100 - 1000	32	1	25	198 335 970	198 335 977		
150 - 1500	40	1 1/4	32	198 335 971	198 335 978		
250 - 2500	40	1 1/4	32	198 335 971	198 335 978		
200 - 2000	50	1 ½	40	198 335 972	198 335 979		
300 - 3000	50	1 ½	40	198 335 972	198 335 979		
600 - 6000	50	1 1/2	40	198 335 972	198 335 979		
600 - 6000	63	2	50	198 335 973	198 335 980		
1000 - 10000	63	2	50	198 335 973	198 335 980		
1500 - 15000	63	2	50	198 335 974		198 335 982	
2000 - 20000	75	2 ½	65	198 335 975		198 335 981	
3000 - 30000	75	2 1/2	65	198 335 975		198 335 981	
8000 - 60000	75	2 ½	65	198 335 975		198 335 981	

Scale range	d [mm]	Inch	DN [mm]	bottom (3) for PVDF/SS guiding rod Code	
50 - 500	32	1	25		
100 - 1000	32	1	25		
150 - 1500	40	1 1/4	32		
250 - 2500	40	1 1/4	32		
200 - 2000	50	1 ½	40		
300 - 3000	50	1 1/2	40		
600 - 6000	50	1 1/2	40		
600 - 6000	63	2	50		
1000 - 10000	63	2	50		
1500 - 15000	63	2	50	198 335 893	
2000 - 20000	75	2 ½	65	198 335 894	
3000 - 30000	75	2 1/2	65	198 335 894	
8000 - 60000	75	2 ½	65	198 335 894	



Float PVDF (2)

Scale range [l/h]	d [mm]	Inch	DN [mm]	Without magnet Code	With magnet (bistabil) Code	
50 - 500	32	1	25	198 335 455	198 335 470	
100 - 1000	32	1	25	198 335 455	198 335 470	
150 - 1500	40	1 1/4	32	198 335 455	198 335 470	
250 - 2500	40	1 1/4	32	198 335 455	198 335 470	
200 - 2000	50	1 1/2	40	198 335 456	198 335 471	
300 - 3000	50	1 ½	40	198 335 457	198 335 471	
600 - 6000	50	1 1/2	40	198 335 457	198 335 471	
600 - 6000	63	2	50	198 335 457	198 335 471	
1000 - 10000	63	2	50	198 335 457	198 335 471	
1500 - 15000	63	2	50	198 335 458	198 335 472	
2000 - 20000	75	2 ½	65	198 335 459	198 335 473	
3000 - 30000	75	2 ½	65	198 335 459	198 335 473	
8000 - 60000	75	2 ½	65	198 335 460	198 335 474	



Guiding rod (10)

Model:

• Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)

Scale range [l/h]	d [mm]	Inch	DN [mm]	Peek Code	Stainless steel (V4A) Code	PVDF Code	
1500 - 15000	63	2	50	198 335 985	198 335 098	198 335 984	
2000 - 20000	75	2 ½	65	198 335 985	198 335 098	198 335 984	
3000 - 30000	75	2 ½	65	198 335 985	198 335 098	198 335 984	
8000 - 80000	75	2 ½	65	198 335 985	198 335 098	198 335 984	



Insert guiding rod PVDF (for 10)

Model:

• Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)

Scale range [l/h]	d [mm]	Inch	DN [mm]	for PEEK Code	for PVDF/SS Code
1500 - 15000	63	2	50	198 335 986	198 335 953
2000 - 20000		2 ½	65	198 335 987	198 335 954
3000 - 30000	75	2 ½	65	198 335 987	198 335 954
8000 - 60000	75	2 ½	65	198 335 987	198 335 954

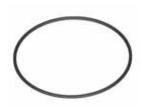


Flow value indicator PS (8)

Model

• For all dimensions type 335/350

d [mm]	Inch	DN [mm]	Flow value indicator Code
32	1	25	198 335 990
40	1 1/4	32	198 335 990
50	1 ½	40	198 335 990
63	2	50	198 335 990
75	2 ½	65	198 335 990



O-rings (7)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
32	1	25	748 410 008	749 410 008
40	1 1/4	32	748 410 009	749 410 009
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011
75	2 ½	65	748 410 014	749 410 014



Union nut (5)

Union nut not useable for the special version with taper tube in PVDF

	721 890 008 721 890 009	723 690 008 723 690 009	729 890 408 729 890 409	727 890 408	735 690 408
32	721 890 009	723 690 009	720 900 400	707 000 400	705 000 400
		. 20 000	1 43 030 403	727 890 409	735 690 409
40	721 890 010	723 690 010	729 890 410	727 890 410	735 690 410
50	721 890 011	723 690 011	729 890 411	727 890 411	735 690 411
65	198 806 429	-	-	198 806 421	198 806 422
		50 721 890 011 65 198 806 429			



Union end / Socket (6)

For DN65 PVDF only spigot

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
32 40	1 1 1/4		721 500 108 721 500 109	723 800 108 723 800 109	729 800 108 729 800 109	727 500 108 727 500 109	735 600 108 735 600 109
50	1 ½	40	721 500 110	723 800 110	729 800 110	727 500 110	735 600 110
63 75	2 ½	50 65	721 500 111 721 600 112	723 800 111 700 253 867	729 800 111 700 246 112	727 500 111 700 253 866	735 600 111
d [mm]	Inch	DN [mm]	PE80 Code				
32	1	25					
40	1 1/4	22	734 600 109				
40							
50 63	1 ½	40					



Union end / Spigot (6)

d [mm]	Inch	DN [mm]	PP-H Code	PVDF Code	PE100 Code
32	1	25	727 508 508	735 608 608	753 608 608
40	1 1/4	32	727 508 509	735 608 609	753 608 609
50	1 ½	40	727 508 510	735 608 610	753 608 610
63	2	50	727 508 511	735 608 611	753 608 611
75	2 ½	65	700 256 401	175 483 013	700 246 420



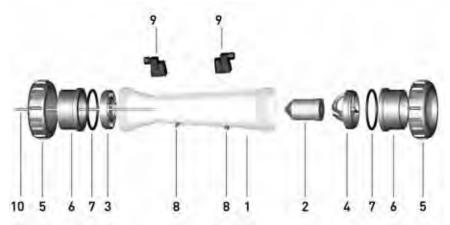
Exchange kit

Model:

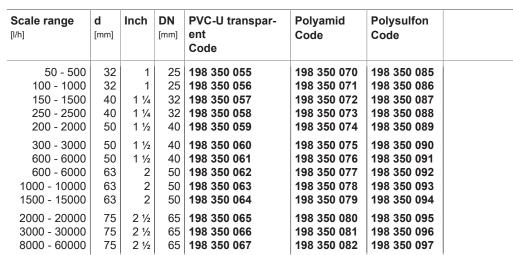
- Exchange kit consisting of: guiding rod (PVDF/V4A), insert guiding rod and insert bottom
- Only for DN50 (1'500 15'000 l/h) and DN65 (all metering ranges)

Scale range [l/h]	d [mm]	Inch	DN [mm]	Code PVDF Code
1500 - 15000	63	2	50	198 335 895
2000 - 20000	75	2 ½	65	198 335 896
3000 - 30000	75	2 ½	65	198 335 896
8000 - 80000	75	2 ½	65	198 335 896

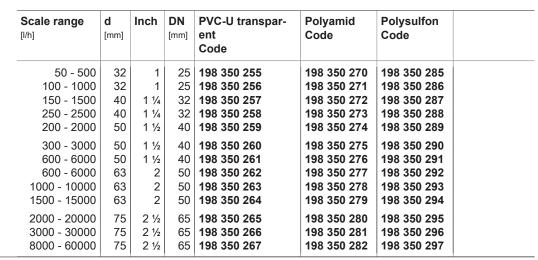
Variable area flow meter type 350



Taper tube with water scale (1)

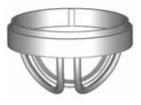


Taper tube without scale (1)





574





Insert PVDF (3,4)

Scale range [l/h]	d [mm]	Inch	DN [mm]	top (4) Code	bottom (3) Code	bottom (3) for PEEK guiding rod Code	
50 - 500	32	1	25	198 335 970	198 335 977		
100 - 1000	32	1	25	198 335 970	198 335 977		
150 - 1500	40	1 1/4	32	198 335 971	198 335 978		
250 - 2500	40	1 1/4	32	198 335 971	198 335 978		
200 - 2000	50	1 ½	40	198 335 972	198 335 979		
300 - 3000	50	1 ½	40	198 335 972	198 335 979		
600 - 6000	50	1 1/2	40	198 335 972	198 335 979		
600 - 6000	63	2	50	198 335 973	198 335 980		
1000 - 10000	63	2	50	198 335 973	198 335 980		
1500 - 15000	63	2	50	198 335 974		198 335 982	
2000 - 20000	75	2 ½	65	198 335 975		198 335 981	
3000 - 30000	75	2 1/2	65	198 335 975		198 335 981	
8000 - 60000	75	2 ½	65	198 335 975		198 335 981	

Scale range	d [mm]	Inch	DN [mm]	bottom (3) for PVDF/SS guiding rod Code	
50 - 500 100 - 1000	32 32	1	25 25		
150 - 1500	_	1 1/4	32		
250 - 2500	40	1 1/4	32		
200 - 2000		1 ½	40		
300 - 3000	50	1 ½	40		
600 - 6000	50 63	1 ½	40		
600 - 6000 1000 - 10000	63	2	50 50		
1500 - 15000	63	2	50	198 335 893	
2000 - 20000	75	2 ½	65	198 335 894	
3000 - 30000	75	2 ½	65	198 335 894	
8000 - 60000	75	2 ½	65	198 335 894	



Float PVDF (2)

Scale range	d [mm]	Inch	DN [mm]	Without magnet Code	With magnet Code	
50 - 500	32	1	25	198 335 455	198 335 470	
100 - 1000	32	1	25	198 335 455	198 335 470	
150 - 1500	40	1 1/4	32	198 335 455	198 335 470	
250 - 2500	40	1 1/4	32	198 335 455	198 335 470	
200 - 2000	50	1 ½	40	198 335 456	198 335 471	
300 - 3000	50	1 ½	40	198 335 457	198 335 471	
600 - 6000	50	1 1/2	40	198 335 457	198 335 471	
600 - 6000	63	2	50	198 335 457	198 335 471	
1000 - 10000	63	2	50	198 335 457	198 335 471	
1500 - 15000	63	2	50	198 335 458	198 335 472	
2000 - 20000	75	2 ½	65	198 335 459	198 335 473	
3000 - 30000	75	2 ½	65	198 335 459	198 335 473	
8000 - 60000	75	2 ½	65	198 335 460	198 335 474	



Guiding rod (10)

Model:

• Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)

						<u> </u>	
Scale range [l/h]	d [mm]	Inch	DN [mm]	Peek Code	Stainless steel Code	PVDF Code	
1500 - 15000	63	2	50	198 350 980	198 350 098	198 350 981	
2000 - 20000	75	2 ½	65	198 350 980	198 350 098	198 350 981	
3000 - 30000	75	2 ½	65	198 350 980	198 350 098	198 350 981	
8000 - 60000	75	2 1/2	65	198 350 980	198 350 098	198 350 981	



Insert guiding rod PVDF (for 10)

Model:

• Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)

Scale range	d [mm]	Inch	DN [mm]	for PEEK & stain- less steel Code	for PVDF/SS Code
1500 - 15000	63	2	50	198 335 986	198 335 953
2000 - 20000	75	2 ½	65	198 335 987	198 335 954
3000 - 30000	75	2 ½	65	198 335 987	198 335 954
8000 - 60000	75	2 ½	65	198 335 987	198 335 954

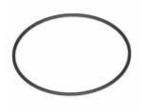


Flow value indicator PS (8)

Model:

• For all dimensions type 335/350

d [mm]	Inch	DN [mm]	Flow value indicator Code
32	1	25	198 335 990
40	1 1/4	32	
50	1 ½	40	198 335 990
63	2	50	198 335 990
75	2 ½	65	198 335 990



O-rings (7)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
32	1	25	748 410 008	749 410 008
40	1 1/4	32	748 410 009	749 410 009
50	1 ½	40	748 410 010	749 410 010
63	2	50	748 410 011	749 410 011
75	2 ½	65	748 410 014	749 410 014



Union nut (5)

Union nut not useable for the special version with taper tube in PVDF

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
32	1	25	721 890 008	723 690 008	729 890 408	727 890 408	735 690 408	
40	1 1/4	32	721 890 009	723 690 009	729 890 409	727 890 409	735 690 409	
50	1 1/2	40	721 890 010	723 690 010	729 890 410	727 890 410	735 690 410	
63	2	50	721 890 011	723 690 011	729 890 411	727 890 411	735 690 411	
75	2 1/2	65	198 806 429	-	-	198 806 421	198 806 422	



Union end / Socket (6)

For DN65 PVDF only spigot

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
32	1	25	721 500 108	723 800 108	729 800 108	727 500 108	735 600 108
40	1 1/4	32	721 500 109	723 800 109	729 800 109	727 500 109	735 600 109
50	1 1/2	40	721 500 110	723 800 110	729 800 110	727 500 110	735 600 110
63	2	50	721 500 111	723 800 111	729 800 111	727 500 111	735 600 111
75	2 ½	65	721 600 112	700 253 867	700 246 112	700 253 866	-
d [mm]	Inch	DN [mm]	PE80 Code				
32	1	25	734 600 108				
40	1 1/4	32	734 600 109				
50	1 1/2	40	734 600 110				
63	2	50	734 600 111				
75	2 ½	65	700 246 419				



Union end / Spigot (6)

d [mm]	Inch	DN [mm]	PP-H Code	PVDF Code	PE100 Code
32	1	25	727 508 508	735 608 608	753 608 608
40	1 1/4	32	727 508 509	735 608 609	753 608 609
50	1 ½	40	727 508 510	735 608 610	753 608 610
63	2	50	727 508 511	735 608 611	753 608 611
75	2 ½	65	700 256 401	175 483 013	700 246 420



Exchange kit

Model:

- Exchange kit consisting of: guiding rod (PVDF/V4A), insert guiding rod and insert bottom
- Only for DN50 (1'500 15'000 l/h) and DN65 (all metering ranges)

Scale range	d [mm]	Inch	DN [mm]	Code
1500 - 15000 2000 - 20000 3000 - 30000	63 75 75	2 2 ½ 2 ½	50 65 65	198 350 895 198 350 896 198 350 896
8000 - 80000	75 75	2 ½	65	198 350 896

Spare part for variable area flow meter SK50-SK73/SK500-SK730

Short version taper tube Polysulfone

Туре	d [mm]	DN [mm]	Code
SK 50 / 500	16	10	198 801 341
SK 51 / 510	16	10	198 801 342
SK 52 / 520	16	10	198 801 343
SK 60 / 600	20	15	198 801 449
SK 61 / 610	20	15	198 801 450
SK 62 / 620	20	15	198 801 451
SK 70 / 700	32	25	198 801 445
SK 71 / 710	32	25	198 801 338
SK 72 / 720	32	25	198 801 339
SK 73 / 730	32	25	198 801 340

Short version taper tube PVC-U transparent

Туре	d [mm]	DN [mm]	Code
SK 50 / 500	16	10	198 803 790
SK 51 / 510	16	10	198 803 791
SK 52 / 520	16	10	198 803 792
SK 60 / 600	20	15	198 803 793
SK 61 / 610	20	15	198 803 794
SK 62 / 620	20	15	198 803 795
SK 70 / 700	32	25	198 803 796
SK 71 / 710	32	25	198 803 797
SK 72 / 720	32	25	198 803 798
SK 73 / 730	32	25	198 803 799

Short version float PVDF Without magnet

Туре	d [mm]	DN [mm]	Code
SK 50 / 51 / 52	16	10	198 806 219
SK 60 / 61 / 62	20		198 806 220
SK 70 / 71 / 72 / 73	32	25	198 806 221

Short version float PVDF With magnet bistable

Туре	d [mm]	DN [mm]	Code
SK 500 / 510 / 520	16	10	198 806 222
SK 600 / 610 / 620	20	15	198 806 223
SK 700 / 710 / 720 / 730	32	25	198 806 224

Short version float PTFE Without magnet

Туре	d DN [mm]	DN Code
SK 73	32 25	32 25 198 807 166

Short version top insert PVDF

Туре	d [mm]	DN [mm]	Code
SK 50 / 500; 51 / 510; 52 / 520	16	15	198 807 188
SK 60 / 600; 61 / 610; 62 / 620	20		198 807 187
SK 70 / 700; 71 / 710; 72 / 720; 73 / 730	32		198 807 182

Pneumatic rotary actuators PA

Pneumatic actuator type PA11/PA21





Туре	DN-DN Inch Code [mm] [inch]
PA 11 FC PA 21 FC	10 - 25



Fail safe to open (FO)

Туре	DN-DN Inch [inch]	Code
		198 150 128 198 150 131



Double action (DA)



Fail safe to close (FC) with stroke limiter

Туре	N-DN Inch	Code
		1 198 150 144 2 198 150 147



Fail safe to open (FO) with stroke limiter

Туре	Inch [inch]	Code
PA 11 FO PA 21 FO		198 150 145 198 150 148



Double action (DA) with stroke limiter

Туре	DN-DN Inch [inch]	Code
		198 150 146 198 150 149

Pneumatic actuator type PA30 PA90 Fail safe to close/fail safe to open (FC/FO)

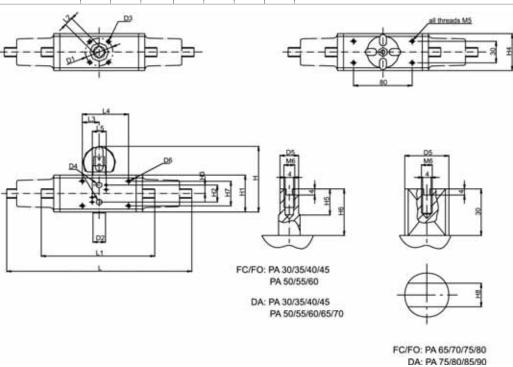


* Only valid for butterfly valve type 240, 241, 242 and ball valve type 230 - 235

Туре	hard Code	anodi	zed	nicke Code	-	ted		anodiz stroke			oxy co de	ated		
PA 30 FC/FO * PA 30 FO PA 35 FC/FO * PA 35 FO PA 40 FC/FO	198 8 198 8 198 8	300 75 311 02 300 03 311 02 300 72	5 7 6	198 8 - 198 8 - 198 8	00 0	52	- - - - 198 8	00 017	,	- 198 -	3 811 <i>1</i> 3 800 (029		
* PA 40 FO PA 45 FC/FO * PA45 FO PA 50 FC/FO * PA50 FO	198 8 198 8	311 02 300 03 311 02 300 72 311 02	9 8 9	- 198 8 - 198 8 -			- - - 198 8 -	00 018		- - - 198	3 8 00 (026		
PA 55 FC/FO * PA 55 FO PA 60 FC/FO PA 65 FC/FO PA 70 FC/FO	198 8 198 8 198 8	300 04 311 03 300 73 300 04 300 73	0 0 3	198 8 - 198 8 198 8 198 8	00 0 00 0	06 58	-	00 019 00 020		-	3 811 <i>′</i> 3 800 (
PA 70 FO PA 75 FC/FO PA 80 FC/FO	198 8	311 19 300 04 300 04	5	- 198 8 198 8			- - -			- - -				
Туре		D1 [mm]	D2 [mm]	D3[N [mm]	/1]	D4 [inch]	D5 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]
PA 30 FC/FO * PA 30 FO PA 35 FC/FO * PA 35 FO PA 40 FC/FO	F04 F04 F05 F05 F05	42 42 50 50 50	30 30 35 35 35	M M6 M6	5x9 5x9 x11 x11	1/8	10 10 12 12 12	276 276 326 326 370	11 11 14 14 14	35 35 35 35 35	70 70 70 70 70	32 32 32 32 32 32	102 102 111 111 129	70 70 78 78 86
* PA 40 FO PA 45 FC/FO * PA45 FO PA 50 FC/FO * PA50 FO	F05 F07 F07 F07 F07	50 70 70 70 70	35 55 55 55 55	M6 M8 M8 M8	x11 x15 x15 x15 x15 x15	1/8 1/8 1/8	12 15 15 15 15	370 411 411 423 423	14 17 17 17 17	35 35 35 35 35	70 70 70 70 70	32 32 32 32 32	129 139 139 149 149	86 96 96 106
PA 55 FC/FO * PA 55 FO PA 60 FC/FO PA 65 FC/FO PA 70 FC/FO	F10 F10 F10 F12 F12	102 102 102 125 125	70 70 70 85 85	M10	x17 x17 x21	1/8 1/8 1/4	19 19 19	452 452 503 648 663	22 22 22 27 27	35 35 35	70 70 70	32 32 32 32 32	161 161 173 191 196	118 118 130 148 153
PA 70 FO PA 75 FC/FO PA 80 FC/FO	F12 F14 F14	125 140 140	85 100 100		x25	1/4 1/4 1/4		663 824 918	27 36 36			32 32 32	196 229 241	153 186 198
Туре	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7	H8							
PA 30 FC/FO * PA 30 FO PA 35 FC/FO * PA 35 FO PA 40 FC/FO	21 21 21 21 21 25	18 18 18 18 21	65 65 72 72 80	13 13 13 13	20 20 20 20 30	30 30	6666							
* PA 40 FO PA 45 FC/FO * PA45 FO PA 50 FC/FO * PA50 FO	25 25 25 25 25 25	21 21 21 26 26	80 90 90 100 100	13 16 16 17 17	30 30 30 30 30	30 30	6666							
PA 55 FC/FO * PA 55 FO PA 60 FC/FO PA 65 FC/FO PA 70 FC/FO	25 25 25 24 24	25 25 32 34 38	112 112 124 137 145	19 19 19	30 30 30	3	6							

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Туре	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]
PA 70 FO	24	38	145				24
PA 75 FC/FO	24	43	166				27
PA 80 FC/FO	24	44	180				32



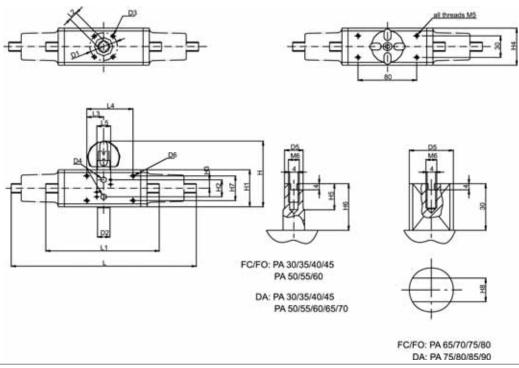


Double acting (DA)

Туре	hard anodized Code
PA 30 DA	198 800 737
PA 35 DA	198 800 758
PA 40 DA	198 800 759
PA 45 DA	198 800 040
PA 50 DA	198 800 733
PA 55 DA	198 800 042
PA 60 DA	198 800 734
PA 65 DA	198 800 044
PA 70 DA	198 800 735
PA 75 DA	198 800 046
PA 80 DA	198 800 048
PA 85 DA	198 800 050

Туре		D1	D2	D3[M]	D4	D5	L1	L2	L3	L4	L5	Н	H1
		[mm]	[mm]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
PA 30 DA	F03	36	25	M5x9	1/8	9	177	9	35	70		92	60
PA 35 DA	F03	42	30	M5x9	1/8	10	190	11	35	70		98	66
PA 40 DA	F05	42	30	M5x9	1/8	10	198	11	35	70		102	70
PA 45 DA	F05	50	35	M6x11	1/8	12	235	14	35	70		111	78
PA 50 DA	F05	50	35	M6x11	1/8	12	250	14	35	70		129	86
PA 55 DA	F07	70	55	M8x15	1/8	15	279	17	35	70		139	96
PA 60 DA	F07	70	55	M8x15	1/8	15	341	17	35	70		149	106
PA 65 DA	F10	102	70	M10x17	1/8	19	350	22	35	70		161	118
PA 70 DA	F10	102	70	M10x17	1/8	19	381	22	35	70		173	130
PA 75 DA	F12	125	85	M12x21	1/4		416	27			32	191	148
PA 80 DA	F12	125	85	M12x21	1/4		466	27			32	197	153
PA 85 DA	F14	140	100	M16x25	1/4		555	36			32	229	186
PA 90 DA	F14	140	100	M16x25	1/4		581	36			32	241	198

Туре	H2	Н3	H4	H5	Н6	H7	Н8
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
PA 30 DA	25	12	55	10	20	36	
PA 35 DA	25	13	60	13	20	36	
PA 40 DA	21	18	65	13	20	36	
PA 45 DA	21	18	72	13	20	36	
PA 50 DA	25	21	80	13	30	36	
PA 55 DA	25	21	90	16	30	36	
PA 60 DA	25	26	100	17	30	36	
PA 65 DA	25	25	112	19	30	36	
PA 70 DA	25	32	124	19	30	36	
PA 75 DA	24	34	137				22
PA 80 DA	24	38	145				24
PA 85 DA	24	43	166				27
PA 90 DA	24	44	180				32



Accessories for pneumatic rotary actuators

For pneumatic actuators type PA30-PA55 and PA11/21 Namur connecting plate

• PA30 - PA55 FC/FO. PA30 - PA65 DA





		0,	
DN [mm]	Series PA11/21 Code	Series PA30-55 Code	
15	199 190 378	199 190 275	
20	199 190 378	199 190 275	
25	199 190 378	199 190 275	
32	199 190 378	199 190 275	
40	199 190 378	199 190 275	
50	199 190 378	199 190 275	

For actuator units pneumatic type PA11 - PA90 Namur mounting flange

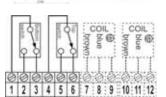


No	Code	
3	199 190 281	

Limit switch box with 2 auxiliary switches



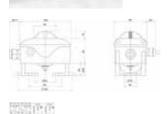




•	Including	namur	mounting	flange
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Voltage	Code
250 V ~/10 A	199 190 282

Lines.



Limit switch box with 2 inductive auxiliary switches NPN With luminous diode

• Including namur mounting flange

Voltage	Code
1030 V/ 0.1 A	199 190 283



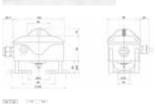


Limit switch box with 2 inductive auxiliary switches PNP With luminous diode

• Including namur mounting flange

Voltage	Code		
1030 V/ 0.1 A	199 190 284		



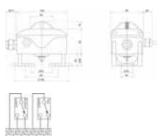


Limit switch box with 2 inductive auxiliary switches Namur Eexi (intrinsically safe)

• Including namur mounting flange

Voltage	Code
5-15 V	199 190 285



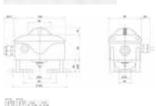


Limit switch box with 2 auxiliary switches Eexd

• Including namur mounting flange

J		5 5	
Voltage	Code		
250 V ~/5 A	199 190 286		





Limit switch box with 2 auxiliary switches With gold contact

• Including namur mounting flange

Voltage	Code
30 V =/ 1-100 mA	199 190 287
	100 100 201

Electric actuators

Electric actuator type EA11



Note:

F05 (WS11/14) per EN ISO 5211 with adapter 198.000.587

Electric actuator type EA21



Note:

F05 (WS11/14) per EN ISO 5211 with adapter 198.000.587

Electric actuator type EA31



Note:

F07 (WS 17) per EN ISO 5211

Electric actuator type EA42



Note:

F07 (WS 22) per EN ISO 5211

Voltage	Code
100-230 V~	198 150 186
24 V=/ ~	198 150 187

Accessories for electric actuators

For electric actuators Type EA11/EA21/EA31/EA42

Heating element



Voltage	Code
24 V=	199 190 086

Fail safe return incl. battery kit



Heating element + fail safe return incl. battery kit



Battery kit (spare)

Voltage	Code	
24 V=	198 151 317	



Limit switch kit with mechanical limit switches AgNi

Voltage	Code
250 V ~6 A	199 190 092

For electric actuators Type EA21/EA31/EA42

Testing adapter kit



Code			
198 151 426			



Monitoring print

Code			
199 190 099			



Cycle time extension

Model:

· Monitoring print required

Code	
199 190 080	



Cycle time monitoring

Model:

· Monitoring print required

Code	
199 190 082	



Cycle counter

Model:

Monitoring print required

• Monitoring	print required
Code	
199 190 083	



Motor current monitoring

Model:

· Monitoring print required

Code	
199 190 081	



Position signalization

Model:

- Enables a 4... 20mA feedback signal
- Must be used with either the PE25 positioner or the monitoring print

Code			
199 190 084			



Positioner PE25

Model:

- Positioner must use position signalization
- ** galvanic isolated set value inputs
- * not galvanic isolated set value inputs

Voltage	Code	
* 24 V= ** 24 V=	199 190 100 199 190 101	



Limit switch kit with gold contacts Au

Voltage	Code
30 V=, 100mA	199 190 093



Limit switch kit with inductive switches PNP

Voltage	Code
5-30 V= 0,1 A	199 190 095



Assembly kit for 4 limit switches

Model:

· Limit switches need to be ordered separately

Code			
199 190 097			



Limit switch kit with inductive switches NPN

Voltage	Code
5-30 V= 0,1 A	199 190 096



Limit switch kit with mechanical limit switches Middle position

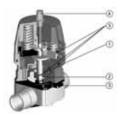
Voltage	Code
4-30 V= 1-100 mA	199 190 094

Pneumatic stroke actuators

Accesories and spare parts for DIASTAR Indicator cap for DIASTAR

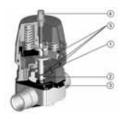


Pos	d	DN	Serie 028 FC	Serie 025 FC	Serie 025 FO	Serie 025 DA
	[mm]	[mm]	Code	Code	Code	Code
4	20	15	198 806 639	198 806 639	198 806 639	198 806 639
4	25	20	198 806 639	198 806 639	198 806 639	198 806 639
4	32	25	198 806 639	198 806 640	198 806 639	198 806 639
4	40	32	198 806 640	198 806 640	198 806 640	198 806 640
4	50	40	198 806 640	198 806 640	198 806 640	198 806 640
4	63	50	198 806 640	198 806 640	198 806 640	198 806 640
4	75	65		198 806 376	198 806 376	198 806 376
4	90	80		198 806 376	198 806 376	198 806 376
4	110	100		198 806 376	198 806 376	198 806 376
4	160	150		198 806 376	198 806 376	198 806 376



Compression set complete Consisting of compressor and diaphragm holder

d	Inch	DN	EPDM	PTFE/EPDM
[mm]		[mm]	Code	Code
20	1/2	15	198 000 320	198 000 326
25	3/4	20	198 000 321	198 000 327
32	1	25	198 000 322	198 000 328
40	1 1/4	32	198 000 323	198 000 329
50	1 ½	40	198 000 324	198 000 330
63	2	50	198 000 325	198 000 331
75	2 ½	65	198 000 268	198 000 269
90	3	80	198 000 270	198 000 271
110	4	100	198 000 272	198 000 273
160	6	150	198 000 274	198 000 275



Diaphragms for DIASTAR

d	DN	EPDM	FPM	NBR	CSM	PTFE/EPDM
[mm]	[mm]	Code	Code	Code	Code	Code
20	15	161 481 022	161 481 092	161 311 710	161 311 728	161 311 698
25	20	161 481 023	161 481 093	161 311 711	161 311 729	161 311 699
32	25	161 481 024	161 481 094	161 311 712	161 311 730	161 311 700
40	32	161 481 025	161 481 095	161 311 713	161 311 731	161 311 701
50	40	161 481 026	161 481 096	161 311 714	161 311 732	161 311 702
63	50	161 481 027	161 481 097	161 311 715	161 311 733	161 311 703
75	65	161 481 028	161 481 098	161 480 231	161 480 237	161 480 240
90	80	161 481 029	161 481 099	161 480 232	161 480 238	161 480 241
110	100	161 481 030	161 481 100	161 480 233	161 480 239	161 480 242
160	150	161 482 754	161 481 102	161 482 751	161 482 757	161 482 760
d	DN	PTFE/FPM	PTFE/EPDM I	НР		
[mm]	[mm]	Code	Code			

d [mm]	DN [mm]	PTFE/FPM Code	PTFE/EPDM HP Code
20	15	161 481 926	161 484 452
25	20	161 481 927	161 484 453
32	25	161 481 928	161 484 454
40	32	161 481 929	161 484 455
50	40	161 481 930	161 484 456
63	50	161 481 931	161 484 457
75	65	161 481 932	161 484 458
90	80		161 484 459
110	100		161 484 460
160	150		161 482 760



Seal set complete

Pos	DN [mm]	Serie 028 FC Serie 025 FO/DA Code	Serie 025 FC Code
5	15	198 000 332	198 000 333
5	20	198 000 333	198 000 333
5	25	198 000 333	198 000 334
5	32	198 000 334	198 000 335
5	40	198 000 335	198 000 336
5	50	198 000 335	198 000 336

Pneumatic actuator DIASTAR Series 028 FC



d [mm]	DN [mm]	Inch	Size	for EPDM Code	for PTFE/EPDM Code
20	15	1/2	1	198 150 091	198 150 097
25	20	3/4	2	198 150 126	198 150 126
32	25	1	2	198 150 093	198 150 098
40	32	1 1/4	3	198 150 094	198 150 124
50	40	1 1/2	4	198 150 095	198 150 099
63	50	2	4	198 150 125	198 150 125

Series 025 FC



d [mm]	DN [mm]	Inch	Size	for EPDM Code	for PTFE/EPDM Code
20	15	1/2	2	198 150 087	198 150 962
25	20	3/4	2	198 150 963	198 150 963
32	25	1	3	198 150 088	198 150 964
40	32	1 1/4	4	198 150 965	198 150 965
50	40	1 ½	5	198 150 089	198 150 966
63	50	2	5	198 150 090	198 150 967
75	65	2 ½		198 150 736	198 150 736
90	80	3		198 150 737	198 150 737
110	100	4		198 150 738	198 150 738
160	150	6		198 150 739	

Series 025 FO



d [mm]	DN [mm]	Inch	Size	for PTFE/EPDM and EPDM Code
20	15	1/2	1	198 150 105
25	20	3/4	2	198 150 969
32	25	1	2	198 150 106
40	32	1 1/4	3	198 150 107
50	40	1 1/2	4	198 150 108
63	50	2	4	198 150 109
75	65	2 ½		198 150 746
90	80	3		198 150 747
110	100	4		198 150 748
160	150	6		198 150 749



Series 025 DA

d [mm]	DN [mm]	Inch	Size	for EPDM Code	for PTFE/EPDM Code
20	15	1/2	1	198 150 100	198 150 100
25	20	3/4	2	198 150 975	198 150 975
32	25	1	2	198 150 101	198 150 101
40	32	1 1/4	3	198 150 102	198 150 102
50	40	1 1/2	4	198 150 103	198 150 103
63	50	2	4	198 150 104	198 150 104
75	65	2 1/2		198 150 756	198 150 756
90	80	3		198 150 757	198 150 757
110	100	4		198 150 758	198 150 758
160	150	6		198 150 759	198 150 759

Diaseptic DIASTAR





Code	Code	1 -
	Code	Code
198 151 126	198 151 136	198 151 142
198 151 127	198 151 137	198 151 143
198 151 128	198 151 138	
198 151 129	198 151 139	198 151 145
198 151 130	198 151 140	198 151 146
198 151 131	198 151 141	198 151 147
	198 151 127 198 151 128 198 151 129 198 151 130	198 151 127 198 151 137 198 151 128 198 151 138 198 151 129 198 151 139 198 151 130 198 151 140

Type 025 with stainless steel intermediate part



[mm] Code Code Code Code 8 198 151 148 198 151 150 198 151 156 198 151 163 15 198 151 149 198 151 150 198 151 157 198 151 164 20 198 151 151 198 151 158 198 151 165 25 198 151 152 198 151 159 198 151 166 40 198 151 154 198 151 161 198 151 168 50 198 151 155 198 151 162 198 151 169	DN	FC size 1	FC size 2	FO	DA
15 198 151 149 198 151 150 198 151 157 198 151 164 20 198 151 151 198 151 158 198 151 165 25 198 151 152 198 151 159 198 151 166 40 198 151 154 198 151 161 198 151 168	[mm]	Code	Code	Code	Code
20 198 151 151 198 151 158 198 151 165 25 198 151 152 198 151 159 198 151 166 40 198 151 154 198 151 161 198 151 168	8	198 151 148		198 151 156	198 151 163
25 198 151 152 40 198 151 154 198 151 161 198 151 161 198 151 161 198 151 168	15	198 151 149	198 151 150	198 151 157	198 151 164
40 198 151 154 198 151 161 198 151 168	20	198 151 151		198 151 158	198 151 165
	25	198 151 152		198 151 159	198 151 166
50 198 151 155 198 151 162 198 151 169	40	198 151 154		198 151 161	198 151 168
	50	198 151 155		198 151 162	198 151 169

Diaseptic type 028 plastic acuator PPS GF40



DN [mm]	FC Code
15	198 151 120
	198 151 121
	198 151 122
32	198 151 123
	198 151 124
50	198 151 125



For diaphragm valve type DIASTAR Electric position indicator with 2 auxiliary

Electric position indicator with 2 auxiliary switches Ag Ni

• Connection: Plug

DN-DN [mm]	Inch [inch]	Туре	Voltage	Code
15 - 50 65 - 150		1		199 190 305 199 190 293



Electric position indicator with 2 auxiliary switches With gold contact

· Connection: Plug

DN-DN [mm]	Inch [inch]	Туре	Voltage	Code
15 - 50 65 - 150	1	_	4-30 V= 1-100 mA 4-30 V= 1-100 mA	199 190 306 199 190 297



Electric position indicator with 2 inductive switches NPN

• Connection: Plug

	DN-DN [mm]	Inch [inch]	Туре	Voltage	Code
15 - 50					



Electric position indicator with 2 inductive switches PNP

• Connection: Plug

DN-DN [mm]	Inch [inch]	Туре	Voltage	Code
15 - 50 65 - 150		_	5-30 V= 100 mA 10-30 V= 100 mA	199 190 308 199 190 295



Electric position indicator with 2 inductive switches Namur Eexi (intrinsically safe)

· Connection: Plug

DN-DN [mm]	Inch [inch]	Туре	Voltage	Code
15 - 50 65 - 150		ER 52-5 ER 53-5	_	199 190 309 199 190 296



Electric position indicator with 2 auxiliary switches Eexd

• Connection: Cable, 2 m

	DN-DN [mm]	Inch [inch]	Туре	Voltage	Code
15 - 50			1		



Adapter complete

• For combination Electric Position Indicator / Lift limiter / Manual override

DN-DN [mm]	Туре	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO/DA Code	
- 15	ER 52	199 190 387	199 190 387	199 190 387	
- 20	ER 52	199 190 387	199 190 387	199 190 387	
- 25	ER 52	199 190 387	199 190 388	199 190 387	
- 32	ER 52	199 190 388	199 190 389	199 190 388	
- 40	ER 52	199 190 389	199 190 389	199 190 389	
- 50	ER 52	199 190 389	199 190 389	199 190 389	
65 - 150	ER 53		199 190 310	199 190 310	



Electric position indicator with reed contact Type ER-55 for Diastar DN 15-150

For one position open or closed Furder position indicator with limit contact (198 804 875)

Connection: plug

Voltage: 250V ~ 200 mA

DN [mm]	Туре	Ten/028 FC Code	Ten/Sixteen/025 FC/FO/DA Code
15	ER 55-1	199 190 462	199 190 462
20	ER 55-1	199 190 462	199 190 462
25	ER 55-1	199 190 462	199 190 462
32	ER 55-1	199 190 462	199 190 462
40	ER 55-1	199 190 462	199 190 462
50	ER 55-1	199 190 462	199 190 462
65	ER 55-2		199 190 464
80	ER 55-2		199 190 464
100	ER 55-2		199 190 464
150	ER 55-2		199 190 464



Limit contact to ER55

Code						
198 804 875	5					

Accessories for pneumatic stroke actuators

For diaphragm valve type DIASTAR

Min./max. stroke limiter/manual override



Inch	Series	Series	Series
	028-FC	025-FC	025-FO/DA
1/2	199 190 381	199 190 382	199 190 381
3/4	199 190 382	199 190 382	199 190 382
1	199 190 382	199 190 383	199 190 382
11/4	199 190 383	199 190 384	199 190 383
11/2	199 190 384	199 190 385	199 190 384
2	199 190 384	199 190 385	199 190 384
21/2-3		199 190 318	199 190 318
*4-6		199 190 319	199 190 319

DN-DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO/DA Code
- 15	199 190 381	199 190 382	199 190 381
- 20	199 190 382	199 190 382	199 190 382
- 25	199 190 382	199 190 383	199 190 382
- 32	199 190 383	199 190 384	199 190 383
- 40	199 190 384	199 190 385	199 190 384
- 50	199 190 384	199 190 385	199 190 384
65 - 80		199 190 318	199 190 318
* 100 - 150		199 190 319	199 190 319

NAMUR connector plate for DIASTAR DN15-50





Pos	DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO/DA Code
2	15	199 190 378	199 190 378	199 190 378
2	20	199 190 378	199 190 378	199 190 378
2	25	199 190 378	199 190 378	199 190 378
2	32	199 190 378	199 190 379	199 190 378
2	40	199 190 379	199 190 379	199 190 379
2	50	199 190 379	199 190 379	199 190 379

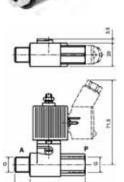
Pilot valves

Solenoid pilot valve type PV94 Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/8
- Port A actuator connection G 1/8
- With connector plug form C
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- · Circuit function C: de-energized closed
- · Valve material polyamid / brass

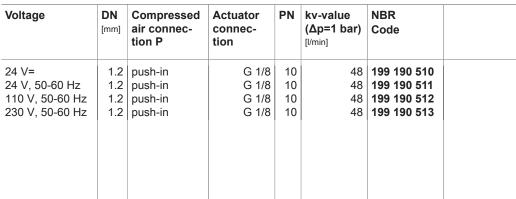
Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value (Δp=1 bar) [l/min]	NBR Code	
24 V= 24 V, 50-60 Hz 110 V, 50-60 Hz 230 V, 50-60 Hz	1.2 1.2 1.2 1.2		G 1/8 G 1/8 G 1/8 G 1/8	10 10 10 10	48 48 48 48	199 190 499 199 190 500	



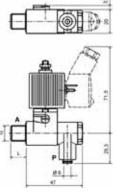
Pilot valve 3/2-ways

Model:

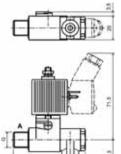
- For direct installation (including valve body and hollow screw)
- Port P compressed air connection tube push-in 6mm
- Port A actuator connection G 1/8
- With connector plug form C
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- · Circuit function C: de-energized closed
- · Valve material polyamid / brass











Pilot valve 3/2-ways

Model:

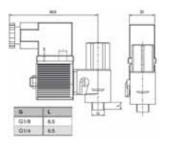
- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/8
- Port A actuator connection G 1/8
- With connector plug form C
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value (Δp=1 bar) [l/min]	NBR Code	
24 V=	1.2	NPT 1/8	G 1/8	10	48	199 190 546	
24 V AC	1.2	NPT 1/8	G 1/8	10	48	199 190 561	
110 V, 50-60 Hz	1.2	NPT 1/8	G 1/8	10	48	199 190 547	



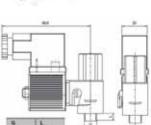
Pilot valve 3/2-ways

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/8
- Port A actuator connection G 1/8
- With connector plug form BWith adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- · Circuit function C: de-energized closed
- Valve material polyamid / brass



Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value (Δp=1 bar) [l/min]	NBR Code
24 V= 230 V, 50-60 Hz		G 1/8 G 1/8	G 1/8 G 1/8	10 10		199 190 574 199 190 572





Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection tube push-in 6mm
- Port A actuator connection G 1/8
- With connector plug form BWith adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value (Δp=1 bar) [l/min]	NBR Code	
24 V= 230 V, 50-60 Hz	1.2 1.2	1	G 1/8 G 1/8	10 10	48 48		



Accessory

Model:

Cable plug to DIN EN 175301-803 (DIN 43 650) form C

Voltage	Version	NBR Code
0-250 V	no circuitry	199 190 518
0-24 V	with LED	199 190 519
0-24 V	with LED and varistor	199 190 520
0-24 V	with rectifier LED and varistor	199 190 521
200-240 V	with LED	199 190 522
200-240 V	with LED and varistor	199 190 523



Accessory

Model:

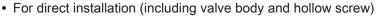
• Cable plug, form B industrial standard

Voltage	Version	NBR Code
0-250 V	no circuitry	199 190 578
0-24 V	with LED	199 190 579
0-250 V	with LED	199 190 580
0-24 V	with rectifier LED	199 190 581

Solenoid pilot valve type PV95

Pilot valve 3/2-ways

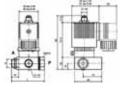




• Port P compressed air connection G 1/4

- Port A actuator connection G 1/8
- · With connector plug form A
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC

Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value (Δp=1 bar) [l/min]	NBR Code	
24 V= 24 V, 50-60 Hz 110 V, 50-60 Hz 230 V, 50-60 Hz	2.0 2.0	G 1/4 G 1/4 G 1/4 G 1/4	G 1/8 G 1/8 G 1/8 G 1/8	10 10 10 10	120 120	199 190 532 199 190 533 199 190 534 199 190 535	





Model:

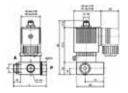


Port P compressed air connection NPT 1/8

- Port A actuator connection G 1/4
- · With connector plug form A
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- · Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC

Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value (Δp=1 bar) [l/min]	NBR Code
24 V= 110 V, 50-60 Hz	_	NPT 1/8 NPT 1/8	G 1/4 G 1/4			199 190 554 199 190 555





Accessory

Model

Cable plug to DIN EN 175301-803 (DIN 43 650) form A

Voltage	Version	NBR Code	
0-250 V 0-24 V 0-24 V 0-24 V 200-240 V 200-240 V	no circuitry with LED with LED and varistor with rectifier LED and varistor with LED with LED and varistor	199 190 540 199 190 541 199 190 542 199 190 543 199 190 544 199 190 545	

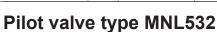
Pilot valve type 5470

- to pneumatic actuators DA (Double acting)
- · Version with NAMUR connection
- Circuit function: 4/2-way valve, in rest position pressure inlet 1 connected to outlet 2, outlet 4 exhausted
- · Valve material: polyamid
- · Electrical connection: cable plug

Pilot valve 4/2-ways

• For AC 50-60 Hz and DC

Voltage	DN [mm]	NBR Code
230 V, AC/DC		199 190 302
115 V, AC/DC	4	199 190 303
24 V, AC/DC	4	199 190 304



Model:

· With NAMUR connection and two silencers/throttle screws

Mode of action:

- 3/2-way valve, in rest position pressure inlet 1 closed, outlet 3 exhausted
- 5/2-way valve, in rest position pressure inlet 1 connected to outlet 4, outlet 3 exhausted
- · Material of body: Aluminum
- · to pneumatic actuators
- · Electrical connection: cable plug

Pilot valve 3/2-5/2-ways



Voltage	DN [mm]	Inch	NBR Code
230 V, AC 110 V, AC 48 V, AC 24 V, AC 24 V, DC	5 5 5 5 5 5	1/8 1/8 1/8 1/8 1/8	199 190 361 199 190 358

Accessories to type 5470 and type MNL532

NAMUR connector plate For DIASTAR DN15-50/PA11/21/PA30-55





Pos	DN [mm]	Series PA11/21 Code	Series PA30-55 Code	Ten/028 FC Code	Sixteen/025 FC Code
2	15	199 190 378	199 190 275	199 190 378	199 190 378
2	20	199 190 378	199 190 275	199 190 378	199 190 378
2	25	199 190 378	199 190 275	199 190 378	199 190 378
2	32	199 190 378	199 190 275	199 190 378	199 190 379
2	40	199 190 378	199 190 275	199 190 379	199 190 379
2	50	199 190 378	199 190 275	199 190 379	199 190 379

Pos	DN [mm]	Ten/025 FO/DA Code
2	15	199 190 378
2	20	199 190 378
2	25	199 190 378
2	32	199 190 378
2	40	199 190 379
2	50	199 190 379

Solenoid pilot valve type PV2000

- Version for 3/2-way and 5/2-way valvesElectrical control over multiple and field bus connector

2 x 3/2-way valve

Model:

· lockable manual override

No	Voltage	Code	
1	24V/DC 100%	199 190 435	



1 x 5/2-way valve

No	Voltage	Code	
2	24 V/DC 100%	199 190 436	



Connection module with D-sub connector

No	Code	
3	199 190 424	



End module

No	Code
4	199 190 426



Connection module AS-interface

No	Code	
1	199 190 430	



Connection module profibus

No	Code	
1	199 190 431	



Connection module with bus interface

2 1	199 190 425

Accessories to type PV2000 Silencer 8mm

Code	
199 190 427	

Plug (white)

D-Sub connector 25 poles With connection cable

Cable length	Code
1.50	199 190 432
	199 190 433
5.00	199 190 434

Position indicator

For butterfly valve type 037M/038M With electric position indicator

• Limit switch box and hand lever included

Limit switch box with 2 auxiliary switches

• Solution for PNP, NPN, NAMUR on request



d-d [mm]	DN-DN Inch	Code
63 - 90 110 - 110 140 - 140 160 - 225	100 - 100 4	198 151 343

For actuator units pneumatic type PA11 - PA90 Namur mounting flange



No	Code	
3	199 190 281	

Controllers

Digital electro-pneumatic positioner

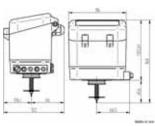
· Other versions and accessories on request

Without feedback signal

- For actuators function FC
- For actuators function FO only possible by assembly in the factory

DSR 500-1 for Diastar DN 15-50 FC Code	DSR 500-2 for Diastar DN 65-150 FC Code	DSR 500-3 for pneumatic rotary actuator Code			
199 190 001	199 190 029	199 190 108			
	Diastar DN 15-50 FC Code	Diastar DN 15-50 Diastar DN 65-150 FC Code Code	Diastar DN 15-50 Diastar DN 65-150 pneumatic rotary actuator Code Code		





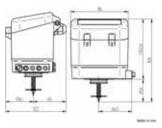
With feedback signal 4-20mA

- · For actuators function FC
- For actuators function FO only possible by assembly in the factory

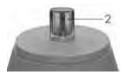
No	DSR 500-1 for Diastar DN 15-50 FC Code	DSR 500-2 for Diastar DN 65-150 FC Code	DSR 500-3 for pneumatic rotary actuator Code	Feedback module 4-20mA Code
1	199 190 575	199 190 576	199 190 577	199 190 109







Accessories for digital electro-pneumatic positioner Attachment kit to type DSR 500-1 With optical position indicator for Diastar DN 15-50



Pos	DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code
2	15		199 190 417	
2	20	199 190 417	199 190 417	199 190 417
2	25	199 190 417	199 190 418	199 190 417
2	32	199 190 418	199 190 418	199 190 418
2	40	199 190 418	199 190 418	199 190 418
2	50	199 190 418	199 190 418	199 190 418



Attachment kit to type DSR 500-1 Without optical position indicator for Diastar DN 15-50

No	DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code	
3	15		199 190 414		
3	20	199 190 414	199 190 414	199 190 414	
3	25	199 190 414	199 190 415	199 190 414	
3	32	199 190 415	199 190 415	199 190 415	
3	40	199 190 415	199 190 415	199 190 415	
3	50	199 190 415	199 190 415	199 190 415	



Attachment kit to type DSR 500-2 For Diastar DN 65-150



Part No.	with optical posi- tion indicator Code	without optical position indicator Code	
2 3	199 190 419	199 190 416	



Attachement kit to type DSR 500-3 For rotary actuators

Code	
199 190 281	



Electro-pneumatic positioner Positioner type Eckardt SRI 986

No	single acting (FC/FO) Code	double acting (DA) Code	
1	199 190 348	199 190 349	



Accessories for electro-pneumatic positioner Attachment kit for type Eckardt SRI 986



No	Typ DIASTAR DN 15-150 Code	Type PA 30 - PA 90 Code	Electr. pos. trans- former with 4- 20mA output Code	
2	199 190 350	199 190 351	199 190 395	



Positioner mounting flange for type DIASTAR

No	DN-DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code
3	- 15		199 190 372	199 190 372
3	- 20	199 190 372	199 190 372	199 190 372
3	- 25	199 190 372	199 190 373	199 190 373
3	- 32	199 190 373	199 190 373	199 190 373
3	- 40	199 190 373	199 190 373	199 190 373
3	- 50	199 190 373	199 190 373	199 190 373
3	65 - 150		199 190 311	199 190 311



Industrial controller type PE70 For single loop only

Model:

- 1 sensor input
- Continuous control
- 3-point control
- L/W/H: 128/48/96

Туре	Voltage	Code
	90250 V ~ 24 V ~/ 1830 V=	199 192 162 199 192 163



For ratio and single loop control

Model:

- 2 sensor inputs
- Ratio control
- Continuous control
- 3-point control
- L/W/H: 128/48/96

Туре	Voltage	Code
	90250 V ~ 24 V ~/ 1830 V=	199 192 160 199 192 161

AS-Interface

AS-Interface type ASEV 2400

For electric rotary actuators







 Without ac 	cessories				
Code					
199 190 562					

AS-Interface set type ASVC 2300 For pneumatic rotary actuators



ype of actuator	Code
PA11/21 (FC/FO); PA30/35 (FC/FO) PA >35 (FC/FO) PA11/21 (DA); PA30-45 (DA) PA >45 (DA)	199 190 565 199 190 566

AS-Interface set type Topmatic For Diastar

Without accessories

Series Ten/028 FC/025 FO





DN-DN [mm]	Code
15 - 25	199 190 456 199 190 457
32 - 50	199 190 457

Series Sixteen/025-FC





DN-DN [mm]	Code
	199 190 456 199 190 467
40 - 50	



Series 025 FC/FO

DN-DN mm]	Code
65 - 150	199 190 458

AS-Interface type ASIM 2010

• Without accessories

For manual valves with integrated feedback



Code				
199 190 568				

AS-Interface type ASIM 2400

• Without accessories

For sensors with switching-output





Code				
199 190 569				

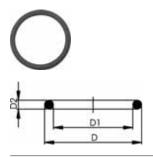
Seals

O-Ring Gasket

Model:

- Hardness approx. 65° ShoreSuitable for union PP-N 28 51 85

EPDM 48 41 00 FPM 49 41 00



d	DN	Inch	EPDM	FPM	D	D1	D2
[mm]	[mm]		Code	Code	[mm]	[mm]	[mm]
20	15	1/2	748 410 140	749 410 140	20	15	2.62
25	20	3/4	748 410 006	749 410 006	27	20	3.53
32	25	1	748 410 025	749 410 025	32	25	3.53
40	32	1 1/4	748 410 152	749 410 152	42	31	5.34
50	40	1 ½	748 410 009	749 410 009	51	41	5.34
63	50	2	748 410 171	749 410 171	61	50	5.34

Fusion Jointing Machines

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ile.	PSO 701 Butt Fusion Machine	620
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Manual Butt and Socket Fusion Tools





- · Choice of electronic or thermostatic temperature control
- Heating element diameter 120 mm, 200 mm and 300 mm
- The SSE 120 heater plate is bent 45°
- Pick up for floor stand or table clamp
- · High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- T = thermostatic temperature control / E = electronic temperature control

d [mm]	Туре	Performance	Code	kg
110	SSE 120 T	115 V/400 W	790 105 136	1.492
180	SSE 200 T	230 V/800 W	790 105 052	3.000
180	SSE 200 E	230 V/800 W	790 105 059	3.000
180	SSE 200 T	115 V/800 W	790 105 137	3.000
280	SSE 300 T	230 V/1500 W	790 105 053	4.780
280	SSE 300 E	230 V/1500 W	790 105 060	5.640
280	SSE 300 T	115 V/1500 W	790 105 138	5.540



SSE 200 -Set- Butt fusion tool

- All devices equipped with on/off switch, mains and temperature control lamp
- Choice of electronic or thermostatic temperature control
- Pick up for floor stand or table clamp
- · High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- Available as a complete set in a practical metal case
- Heating element-diameter 200 mm
- Table clamp
- T = thermostatic temperature control / E = electronic temperature control

d [mm]	Туре	Performance	Code	kg
180	SSE 200 T	230 V/800 W	790 105 054	7.800
180	SSE 200 E	230 V/800 W	790 105 061	7.700
180	SSE 200 T	115 V/800 W	790 105 139	8.000



SSE 300 -Set- Butt fusion tool

- All devices equipped with on/off switch, mains and temperature control lamp
- Choice of electronic or thermostatic temperature control
- Pick up for floor stand or table clamp
- · High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- · High temperature accuracy over the entire heating surface
- · Available as a complete set in a practical metal case
- Heating element-diameter 300 mm
- Table clamp
- T = thermostatic temperature control / E = electronic temperature control

d [mm]	Туре	Performance	Code	kg
280	SSE 300 T	230 V/1500 W	790 105 055	12.200
280	SSE 300 E	230 V/1500 W	790 105 062	12.500
280	SSE 300 T	115 V/1500 W	790 105 140	0.001





MSE 63/MSE 110 Socket fusion tools

- For fusion jointing of PP, PE and PVDF pipes and fittings
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- · Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- T = thermostatic temperature control / E = electronic temperature control

d-d [mm]	Туре	Performance	Code	kg
16 - 63	MSE 63 T	230 V/800 W	790 105 081	1.700
16 - 63	MSE 63 E	230 V/800 W	790 105 082	1.800
16 - 63	MSE 63 T	115 V/800 W	790 105 096	2.075
16 - 110	MSE 110 T	230 V/1500 W	790 105 083	3.200
16 - 110	MSE 110 E	230 V/1500 W	790 105 084	3.200
16 - 110	MSE 110 T	115 V/1500 W	790 105 126	3.200



MSE 63/MSE 110 - Set - Socket fusion tools

- For fusion jointing of PP, PE and PVDF pipes and fittings
- · All devices equipped with on/off switch, mains and temperature control lamp
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- · Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- · High-quality, non-stick PTFE-coating with long service life
- · Heating bushes and spigots
- · Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- · Alen screws and key
- T = thermostatic temperature control / E = electronic temperature control

d-d [mm]	Туре	Performance	Code	kg
16 - 63	MSE 63 T	230 V/800	790 105 085	8.700
16 - 63	MSE 63 E	230 V/800	790 105 086	8.700
16 - 63	MSE 63 T	115 V/800	790 105 098	8.600
16 - 110	MSE 110 T	230 V/1500	790 105 087	17.700
16 - 110	MSE 110 E	230 V/1500	790 105 088	16.523
16 - 110	MSE 110 T	115 V/1500	790 105 128	17.700

SG 125 Socket fusion machine



For fusion jointing of PP, PE, PB and PVDF pipes and fittings

- Portable heating element socket fusion machine for use in the workshop and on job sites.
- Dimension 20 125 mm
- · Base machine
- · Compact, sturdy design, distortion-free machine bed
- · Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- Heater
- With electronic temperature control
- High temperature accuracy over the entire heating surface
- Additional standard equipment on the basic model
- Universal, left and right prismatic clamping devices, complete, for clamping pipe and fittings. Additional set of prismatic clamping devices for outer clamping of pipes available as an option.
- V-shaped pipe support d 20 125 mm
- · Back stop
- Machine specific tool set
- · Timer to clock fusion times
- · Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg	
20 - 125	230 V/1500 W	790 310 034	65.000	

SG 160 Combined Butt and Socket Fusion Machine



for fusion jointing PP, PE and PVDF pipes and fittingssize range for butt fusion d 32 - 160

Mobile, very compact and universal plastic fusion machine for use in the workshop and on job sites.

Butt fusion d 32 - 160 mm, all pressure ratings up to PE/PP SDR 11; PVDF SDR 21. Socket fusion d 16 - 110 mm

Base machine

- · high precision, distortion-free and robust machine base
- · handwheel for easy moving of machine carriage
- · exact pressure adjustment via direct load transfer
- · hardened, hard-chrome plated guide shafts for extreme loads
- · handle for safe transport of machine
- All clamping possibilities for base clamping plates, pipe supports, back stop and prismatic clamping devices.

Planer

- · planing device made of light cast aluminium
- · optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends 620 W
- integrated pick up for easy mounting of calibration tools for machining of pipe ends in socket fusion

Heater

- high-performance and precision heater with electronic temperature control 1500 W
- high accuracy of +/- 4°C over the entire heating surface
- · heater temperature can be set exactly with digital LCD
- · high quality, non-stick, easy to change PTFE fabric

Additional standard equipment on the basic model

- V-shaped pipe supports d 16 160 mm for fittings
- · timer to clock fusion times
- · tool set specified to machine
- · Including transport packaging, without accessories



Special transport crate





- In order to improve the quality of the fusion joint, and for reliable clamping of long pipes, we recommend using the maximum number of clamping devices.
- For welding of long pipes we recommend to use the outer left and outer right base clamping plates as well.
- L = left
- R = right



Inserts, left/right

- For base clamping plate or bracket
- Left or right

d [mm]	Code	kg
32	790 103 019	0.315
40	790 103 020	0.303
50	790 103 021	0.302
63	790 103 022	0.277
75	790 103 023	0.250
90	790 103 024	0.219
110	790 103 025	0.178
125	790 103 026	0.132
140	790 103 027	0.079



Clamping bracket, left/right

- For base clamping plate or bracket
- L = left
- R = right
- * Threaded clamping bracket, for mounting inserts d 32 140 mm. An additional insert must be used instead of clamping brackets d 32 140 mm, i.e. twice the number of inserts listed must be ordered.

d [mm]	Туре	Code	kg
32	L	790 103 039	1.076
40	l-	790 103 040	0.530
50	Ī	790 103 041	0.537
63	L	790 103 042	0.531
75	L	790 103 043	0.530
90	lı .	790 103 044	0.580
110	lī .	790 103 045	0.580
125	ı	790 103 046	0.606
140	I	790 103 047	0.650
* 160	L	790 103 048	0.669
32	R	790 103 059	0.530
40	R	790 103 060	0.530
50	R	790 103 061	0.530
63	R	790 103 062	0.530
75	R	790 103 063	1.042
90	R	790 103 064	1.174
110	R	790 103 065	0.590
125	R	790 103 066	0.605
140	R	790 103 067	0.530
* 160	R	790 103 068	0.679



Prismatic clamping device

- Prismatic clamping device for pick up of clamping jaws for exact alignment of fusion components
- L = left
- R = right

*Horizontal adjustable



Clamping jaws

d	Code	kg
16-32 / 90-110 30-50 / 50-90		0.310 0.330



Depth stop, complete

Code	kg
0 103 090	0.610



Heating spigots and bushes

d [mm]	Code	kg
16	790 101 086	0.310
20	790 101 087	0.315
25	790 101 088	0.313
32	790 101 089	0.316
40	790 101 090	0.330
50	790 101 091	0.475
63	790 101 092	0.858
75	790 101 093	1.157
90	790 101 094	1.697
110	790 101 095	2.090



Stiffener plate

Calibration tool

- For mechanical, standardised calibration of pipe ends in PE, PP and PVDF (to be used with planer)
 easy and time-saving removal of oxide layer
 Consistent peeling quality over the entire pipe circumference

d [mm]	Code	kg
20	790 103 160	0.950
25	790 103 161	0.950
32	790 103 162	0.950
40	790 103 163	0.930
50	790 103 164	0.950
63	790 103 165	1.000
	790 103 166	1.150
	790 103 167	1.250
110	790 103 168	1.344

MC 110 Butt Fusion Machine



Machine MC 110, with electric planer, thermostatic heater

- Portable butt fusion machine for use in the workshop and on job sites. For fusion jointing of PP and PE pipes and fittings as well as prefabrication of segments in the size range d 20 - 110 mm and up to SDR 11.
- Machine MC 110 complete includes: machine mounting, base machine, 2 base clamping plates (wide), base clamping plate (left narrow), electrically operated planer, thermostatic controlled heater, table clamp and transport box.
- · Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg	
		790 109 303 790 109 321	31.000 31.000	



Reduction clamping inserts, wide

- 20 90 mm
- Each code number defines 1 half shell. Per wide base clamping plate 2 reduction half -shells are needed.

d [mm]	Code	kg
25	790 109 327	0.139
32	790 109 328	0.133
40	790 109 329	0.130
50	790 109 330	0.113
56	790 109 342	0.137
63	790 109 331	0.120
75	790 109 332	0.111
90	790 109 333	0.100



Reduction clamping inserts, narrow

• Each code number defines 1 half shell. Per wide base clamping plate 2 reduction half -shells are needed.

oriens are riceaea.			
d [mm]	Code	kg	
25	790 109 335	0.279	
32	790 109 336	0.136	
40	790 109 337	0.258	
50	790 109 338	0.239	
56	790 109 343	0.115	
63	790 109 339	0.108	
75	790 109 340	0.193	
90	790 109 341	0.148	

PSO 701 Butt Fusion Machine



For fusion jointing of PP and PE pipes and fittings, size range d 40 - 160 mm

- Compact and mobile butt fusion machine for PE and PP pipes for the use in the workshop and on the building site. Perfect for sanitary installations and wastepipes. The wooden box is usable as working bench as well as for transportation
- Pressure adjustment via direct load transfer (max. force 100 kp). SDR 11 d 160 mm (PE and PP)
- Planer and heating element could be swivelled in and out
- High performance heating element thermostatic controlled (PTFE coated)
- The heating element can be used as manual fusion tool
- V-shaped pipe support with inserts d 40 140 mm
- Reduction clamping inserts d 40 140 mm
- Base clamping plates right and left, d 160 mm
- Machine specific tool set

d-d [mm]	Performance	Code	kg	
40 - 160	230 V/1360 W	790 301 000	95.500	

SG 315 Butt Fusion Machine



SG 315 for butt fusion jointing of PP, PE and PVDF pipes and fittings

The industrial butt fusion machine for pressure piping systems. Extremely sturdy design use in the workshop and on job sites.

Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11; PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Base machine

- · high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- · exact pressure adjustment via direct load transfer
- · hardened, hard-chrome plated guide shafts for extreme loads
- · handle for safe transport of machine
- optional outer, horizontally removeable clamping devices available

Planer

- · optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- · with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- · timer to clock fusion times
- · tool set specified to machine
- · Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg	
90 - 315	115 V	790 130 002	128.000	



SG 315 for butt fusion jointing of PP, PE and PVDF pipes and fiitings

The industrial butt fusion machine for pressure piping systems. The S-version (S = segment) additionally allows prefabrication of segments. Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11; PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Base machine

- integrated swivel tables for equalization of wall offset transverse to axial direction, for segment fusion up to 30°
- · optional outer, horizontally removeable clamping devices available
- · high precision, distortion-free and robust machine base
- · handwheel for easy moving of machine carriage
- · fusion pressure is maintained with a user friendly torque limiter
- · exact pressure adjustment via direct load transfer
- · hardened, hard-chrome plated guide shafts for extreme loads
- · handle for safe transport of machine

Planer

- · optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- · with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- · timer to clock fusion times
- · tool set specified to machine
- · Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg	
90 - 315 90 - 315		790 130 003 790 130 004	150.000 143.000	



SG 315 for butt fusion jointing of PP, PE and PVDF pipes and fittings

The industrial butt fusion machine for pressure piping systems. Extremely sturdy design for use in the workshop and on job sites.

Equipped with a load cell and a digital display of the fusion force. Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11; PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Base machine

- · high precision, distortion-free and robust machine base
- · handwheel for easy moving of machine carriage
- · fusion pressure is maintained with a user friendly torque limiter
- · exact pressure adjustment via direct load transfer
- · hardened, hard-chrome plated guide shafts for extreme loads
- · handle for safe transport of machine
- digital display
- optional outer, horizontally removeable clamping devices available

Planer

- · optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- · with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- · tool set specified to machine
- · Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg
90 - 315		790 130 031	150.000
90 - 315		790 130 032	128.000



SG 315 for butt fusion jointing of PP, PE and PVDF pipes and fittings

The industrial butt fusion machine for pressure piping systems. The S-version (S = segment) additionally allows prefabrication of segments. Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11; PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Base machine

- integrated swivel tables for equalization of wall offset transverse to axial direction, for segment fusion up to 30°
- · optional outer, horizontally removeable clamping devices available
- · high precision, distortion-free and robust machine base
- · handwheel for easy moving of machine carriage
- · fusion pressure is maintained with a user friendly torque limiter
- · exact pressure adjustment via direct load transfer
- · hardened, hard-chrome plated guide shafts for extreme loads
- · handle for safe transport of machine
- · load cell
- · digital display

Planer

- · optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- · heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- · with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- · timer to clock fusion times
- tool set specified to machine
- · Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg	
90 - 315 90 - 315		790 130 033 790 130 034	143.000 145.000	

Reduction clamping inserts, narrow

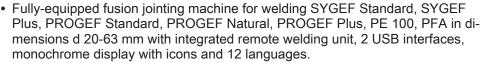
- d 90 280 mm
 Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	Code	kg
90	790 112 098	1.265
110	790 112 099	1.220
125	790 112 100	1.215
140	790 112 101	1.139
160	790 112 102	1.080
180	790 112 103	1.006
200	790 112 104	0.945
225	790 112 105	0.833
250	790 112 106	0.712
280	790 112 107	0.562

IR Plus Fusion Jointing Machines







- 1-phase AC (50/60 Hz) 230 V L/N/PE
- Machine housing complete (1 pcs.)
- Heater assembly (1 pcs.)
- Remote weld device (1 pcs.)
- Facing tool (1 pcs.)
- Transport box (1 pcs.)
- Pipe stop (1 pcs.)
- Clamping inserts d 20-63 mm (8 pcs. per dimension)
- End caps PE d 20-63 mm (4 pcs. per dimension)
- Power supply cable 230 V (1 pcs.)
- Extension cable for remote weld device (1 pcs.)
- Extension cable for heater (1 pcs.)
- Extension cable for facing tool (1 pcs.)
- Cleaning brush No. 8 (1 pcs.)
- Hexagon key 3 mm (1 pcs.)
- Hexagon key 4 mm (1 pcs.)
- Heater protection shield (1 pcs.)
- Clamping unit extension (8 pcs.)
- Socket wrench (facing blades) (1 pcs.)
- Screw driver, Size 0 (1 pcs.)
- Accessory Tray (1 pcs.)
- Manual (1 pcs.)

l-d mm]
) - 63



IR-110 Plus Fully-Equipped Machine

Model:

- Fully-equipped fusion jointing machine for welding SYGEF® Standard, SYGEF® Plus, PROGEF® Standard, PROGEF® Natural, PROGEF® Plus, PE 100, PFA, ECTFE in dimensions d 20-110 mm, 2 USB interfaces, monochrome display with icons and 12 languages.
- 1-phase AC (50/60 Hz) 230 V L/N/PE
- Machine housing complete (1 pcs.)
- Heater and facing tool assembly (1 pcs.)
- Transport box (1 pcs.)
- Pipe stop (1 pcs.)
- Clamping inserts d 20-90 mm (8 pcs. per dimension)
- End caps PE d 20-110 mm (4 pcs. per dimension)
- Power supply cable 230 V (1 pcs.)
- Cleaning brush No. 8 (1 pcs.)
- Hexagon keys 4 mm (1 pcs.), 5 mm (1 pcs.), 6 mm (1 pcs.)
- Socket wrench (facing blades) (1 pcs.)
- Accessory Tray (1 pcs.)
- Manual (1 pcs.)



IR-225 Plus Fully-Equipped Machine with HP Working Table (HP = High Purity)

Model:

- Fully-equipped fusion jointing machine for welding SYGEF Standard, SYGEF Plus, PROGEF Standard, PROGEF Natural, PROGEF Plus, PE 100 in dimensions d 63-225 mm, 2 USB interfaces, monochrome display with icons and 12 languages.
- 1-phase AC (50/60 Hz) 230 V L/N/PE or 3-phase AC (50/60 Hz) 400 V/230 VL1/L2/ L3/N/PE
- Machine base (1 pcs.)
- Facing tool (1 pcs.)
- Heater assembly (1 pcs.)
- Working table, HP (1 pcs.)
- Movable clamping units (1 pcs.)
- Clamping inserts d 63-225 mm (8 pcs. per dimension)
- End caps PE d 63-225 mm (4 pcs. per dimension)
- Transportation lock (1 pcs.)
- Pipe stop (1 pcs.)
- Hexagon key 5 mm (1 pcs.)
- Hexagon key 6 mm (1 pcs.)
- Combination ring /open-jaw wrench 13 mm (1 pcs.)
- Cleaning brush (1 pcs.)
- Connecting cable 400 V 230 V (1 pcs.)
- Ball for lever (1 pcs.)
- Manual (1 pcs.)

d n]	Code kg
3 - 225	25 790 133 009 453.000

BCF Plus Plastic Fusion Jointing Machine





d 20-63 mm with integrated remote welding unit, 2 USB interfaces, monochrome display with icons and 12 languages.



1-phase AC (50/60 Hz) 115 / 230 V L/N/PE

Delivery includes:

- Machine housing (1 pcs.) incl. remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Heating stations d 20-63 mm (6 pcs.)
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools small d 20-63 mm (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.), air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Manual (1 pcs.)

d-d [mm]	Code kg
20 - 63	790 121 002 153.000



BCF Plus Bladder

• Only suitable for welding PROGEF® Natural. Blue bladder head!

d [mm]	Code	kg	Pieces
20	790 122 091	0.038	1
25	790 122 092	0.021	1
32	790 122 093	0.040	1
40	790 122 094	0.050	1
50	790 122 095	0.105	1
63	790 122 096	0.138	1

Electrofusion units and accessories



MSA Plus 400 Traceability electrofusion unit With USB interfaces

NEW, environmentally friendly manufactured Electrofusion unit in accordance with EU directive 2002/95/EU (RoHS).

Professional Electrofusion unit for traceability of piping system components from raw material to completed Electrofusion joint (in accordance with ISO 12176). The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is equipped with compact flash memory card (exchangeable data carrier) and either a barcode reader pen or barcode scanner. The unit is robust, light and easy to use. The menu has up to 27 different languages. Scope of delivery includes: 1 transport case, 1 USB memory stick, 1 pair of angle adapter clips 4.0 mm, operating instructions, configuration card and Software MSA WIN-WELD.

For printer or PC communication, the USB cable (799350619) is required.

Technical Data

Ambient temperature -10 °C to +45 °C Mains voltage 180 V - 264 V AC Mains frequency 45Hz - 65 Hz Fusion voltage 8 - 42 (48) V AC Fusion current max. 80 A max. 3500 W Protection 1 / IP 65

Interfaces USB (type A) for printer communication and to load software

updates

USB (type B) for PC communication

Mains cable 3 m Fusion cable 3 m

Dimensions (WxHxD) 284 x 440 x 195 mm

Weight incl. cables ca. 11,5 kg, light-weight aluminium housing

Display LCD graphic, background light, contrast adjustment

Size display (WxH) 132 x 39 mm

Type size 8 mm

Languages Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch,

English, Estonian, Finnish, French, German, Hungarian, Italian, Korean, Latvian, Lithuanian, Macedonian, Malaysian, Norwegian, Polish, Portuguese, Romanian, Russian, Slovakian,

Slovenian, Spanish, Swedish, Turkish

Warranty 24 months

Туре	Code	kg	Description	
MSA Plus 400 MSA Plus 400 MSA Plus 400	799 350 580 799 350 581 799 350 585	15.926	barcode reader pen, transport case barcode scanner, transport case CH power plug with barcode reader pen, transport case	



MSA Plus 350 Record electrofusion unit With USB interfaces

NEW, environmentally friendly manufactured Electrofusion unit in accordance with EU directive 2002/95/EU (RoHS).

Professional Electrofusion unit for recording jointing data of Electrofusion components as a basis for electronic joint recording. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is equipped with either a barcode reader pen or with barcode scanner. The unit is robust, light and easy to use. The menu has up to 27 different languages. Scope of delivery includes: transport box, 1 USB memory stick, 1 pair of angle adapter clips 4.0 mm, operating instructions, configuration card and Software MSA WIN-WELD.

To read out the fusion protocols, either the USB cable (799 350 619) or the USB memory stick (799 350 622) is required.

Technical Data

Ambient temperature -10 °C to +45 °C
Mains voltage 180 V - 264 V AC
Mains frequency 45Hz - 65 Hz
Fusion voltage 8 - 42 (48) V AC
Fusion current max. 80 A
Power max. 3500 W
Protection 1 / IP 65

Interfaces USB (type A) for printer communication and to load software

updates

USB (type B) for PC communication

Mains cable 3 m Fusion cable 3 m

Dimensions (WxHxD) 284 x 440 x 195 mm

Weight incl. cables ca. 11,5 kg, light-weight aluminium housing

Display LCD graphic, background light, contrast adjustment Size display (WxH) 132 x 39 mm

Type size 8 mm

Languages Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch,

English, Estonian, Finnish, French, German, Hungarian, Italian, Korean, Latvian, Lithuanian, Macedonian, Malaysian, Norwegian, Polish, Portuguese, Romanian, Russian, Slovakian,

Slovenian, Spanish, Swedish, Turkish

Warranty 24 months

Туре	Code	kg	Description	
MSA Plus 350 MSA Plus 350 MSA Plus 350	799 350 571	15.852	barcode reader pen, transport case barcode scanner, transport case CH Power plug, with barcode reader, transport case	



MSA Plus 300 Automatic electrofusion unit With USB interfaces

NEW, environmentally friendly manufactured Electrofusion unit in accordance with EU directive 2002/95/EU (RoHS).

Automatic Electrofusion unit with barcode reader pen, optional with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. The menu has up to 27 different languages. Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm, operating instructions and configuration card.

To load software updates the USB memory stick (799 350 622) is required.

Technical Data

Ambient temperature
Ambient temperature

-10 °C to +45 °C

180 V - 264 V AC

Mains frequency
Fusion voltage
Fusion current
Power

-10 °C to +45 °C

180 V - 264 V AC

45Hz - 65 Hz

8 - 42 (48) V AC

max. 80 A

max. 3500 W

Protection

1 / IP 65

Interfaces USB (type A) to load software updates USB (type B) for PC communication

Mains cable 3 m Fusion cable 3 m

Dimensions (WxHxD) 284 x 440 x 195 mm

Weight incl. cables ca. 11,5 kg, light-weight aluminium housing

Display

LCD graphic, background light, contrast adjustment

Size display (WxH) 132 x 39 mm

Type size 8 mm

Languages Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch,

English, Estonian, Finnish, French, German, Hungarian, Italian, Korean, Latvian, Lithuanian, Macedonian, Malaysian, Norwegian, Polish, Portuguese, Romanian, Russian, Slovakian,

Slovenian, Spanish, Swedish, Turkish

Warranty 24 months

Туре	Code	kg	Description	
MSA Plus 300 MSA Plus 300 MSA Plus 300	799 350 560 799 350 561 799 350 565	15.737	barcode reader pen, transport case barcode scanner, transport case CH Power plug, with barcode reader pen, transport case	



Adapter

- Adapters for Electrofusion units with 4 mm connectors.
- Compatible with electrofusion units MSA 210-230, MSA 330-340, MSA 250 400, MSA 250 – 400 PLUS.

Туре	Code	kg	Description	
4,0 mm	799 350 340	0.058	Angle adapter, black	
4,7 mm	799 350 341	0.057	Angle adapter, grey	
4,0 mm	799 350 461	0.014	Adapter, black	
4,7 mm	799 350 462	0.014	Adapter, white	



Rotary Peeler RS

This innovative Rotary Peeler RS is designed for universal peeling at the pipe end for electrofusion couplings, tees and elbows and as well as for electrofusion saddles. Suitable for peeling PE80, PE100, PEX and PP pipes.

Features and your advantage:

Spring loaded peeling blade: Peeling quality independent of pipe ovality or tolerances Pivoted mounted peeling blade: To compensate the shape of coiled pipe Optimized cutting geometry: Defined chip thickness with cutting width overlap One tool per dimension: Minimized swivel radius for peeling in narrow locations Peeling length: No limitation of peeling length

Guidance rolls:3-point-support for dimensional optimized cutting feed Time saving:Tool is always ready for use, it can be used for the next peeling without having to set the peeling blade back in its origin position

Your advantage:Time saving and highest repeatable peeling quality at smallest rotation radius. No operator errors possible when changing dimension **Included:**1 x Rotary Peeler RS, Transport case, Operating manual, Spare parts list

Article	d	Code	kg
Aiticle	[mm]	Jour	n'a
RS 40	40	790 136 001	1.310
RS 50	50	790 136 002	1.310
RS 63	63	790 136 003	1.310
RS 75	75	790 136 004	1.540
RS 90	90	790 136 005	1.540
RS 110	110	790 136 006	1.540
RS 125	125	790 136 007	1.730
RS 140	140	790 136 008	1.730
RS 160	160	790 136 009	1.730
RS 180	180	790 136 010	2.030
RS 200	200	790 136 011	2.030
RS 225	225	790 136 012	2.030
RS 250	250	790 136 013	2.440
RS 280	280	790 136 014	2.440
RS 315	315	790 136 015	2.440

9 300 725



Peeling Tool PT 1 E

- The rotating Peeling Tool PT 1 E is suitable for preparing pipe ends with diameters d 20 - 90 mm (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX.
- Scope of delivery: 1 basic tool in a plastic carrying case, without pipe inserts. The case has sufficient space for approximately 6 pipe inserts.

d-d [mm]	Code	kg	Description	
20 - 90	799 150 382	2.261	Basic Tool PT 1 E	

9 300 725





Pipe Inserts for Peeling Tool PT 1 E

d [mm]	e [mm]	Code	kg	Description
20	1.9	799 300 739	0.220	Pipe Insert SDR 11
20	3.0	799 300 741	0.220	Pipe Insert SDR 7
25	2.3	799 300 740	0.230	Pipe Insert SDR 11
25	3.0	799 300 742	0.230	Pipe Insert SDR 9
32	3.0	799 300 743	0.230	Pipe Insert SDR 11
40	3.7	799 300 744	0.230	Pipe Insert SDR 11
50	4.6	799 300 745	0.350	Pipe Insert SDR 11
63	3.8	799 300 725	0.475	Pipe Insert SDR 17
63	5.8	799 300 746	0.475	Pipe Insert SDR 11
75	4.5	799 300 727	0.601	Pipe Insert SDR 17
75	6.9	799 300 747	0.601	Pipe Insert SDR 11
90	5.4	799 300 748	0.834	Pipe Insert SDR 17
90	8.2	799 300 749	0.220	Pipe Insert SDR 11

9 300 750



Peeling Tool PT 2

- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.
- Scope of delivery: 1 tool (size 1, 2 or 3) in a metal carrying case.

d-d [mm]	Code	kg	Description
	799 300 753		Size 1, peeling length 140 mm
	799 300 755 799 300 756		Size 2, peeling length 150 mm Size 3, peeling length 175 mm

9 300 700



Peeling Tool PT 4

- The easy-to-use peeling tools PT 4 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tools ensure a constant peeling quality on the whole peeled area and are suitable for PE80 and PE100 pipes. There is no tool service arrangement for the PT 4.
- Scope of delivery: 1 tool with exchangeable blade (4 cutting surfaces).

	•				,
e [mm]	d [mm]	Code	kg	Description	
1.9		799 300 704 799 300 705	0.271 0.255	Pipe Insert SDR 11 Pipe Insert SDR 7	
2.3	25	799 300 706	0.308	Pipe Insert SDR 11	
3.0 3.0	_	799 300 707 799 300 708	0.290 0.340		
3.7	40	799 300 709	0.380	Pipe Insert SDR 11	
4.6		799 300 710	0.436	P	
5.8	63	799 300 711	0.540	Pipe Insert SDR 11	

9 301 475



Double Clamp

- The user-friendly Double Clamps are suitable for coupler connections. They are quickly and easily put into position and prevent pullout and pipe movements during the fusion time and cooling time.
- Scope of delivery: 1 tool consisting of 1 beam (compact), 2 V-clamps complete with ratchet and belt.



d-d [mm]	Code	kg			
110 - 225	799 301 484 799 301 486 799 301 488	3.506 7.918 14.735			

9 301 450





Quadruple Clamp

- The professional Quadruple Clamps are suitable for coupler connections. They are quickly and easily put into position and ensure a stress-free fusion. They prevent pullout and pipe movements during the fusion and cooling times.
- Recommended for difficult site conditions with large installation-induced stresses.
- Scope of delivery: 1 tool consisting of 1 beam (long), 4 V-clamps complete with ratchet and belt.

Code	kg
799 301 459	7.142
799 301 461	16.490
799 301 463	28.500
	799 301 459 799 301 461

9 301 525



Twin Clamp

- The easy-to-use Twin Clamp is suitable for coupler connections on straight or coiled pipe. The clamps prevent pullout and pipe movements during the fusion and cooling time.
- Scope of delivery: 1 complete tool.

d [mm]	Code	kg
20	799 301 536	0.498
25	799 301 537	0.471
32	799 301 538	0.756
40	799 301 539	0.876
50	799 301 540	1.167
63	799 301 541	1.438

9 301 575



Multi Clamp

- This tool is quick and easy to use and is suitable for straight forward connections to straight lengths of pipe or saddle branch outlets with electrofusion couplers.
- Scope of delivery: 1 tool without accessories.

d-d [mm]	Code	kg
-	799 301 575	1 409

9 301 575





Inserts for Multi Clamp

d-d [mm]	Code	kg	Description
32 - 20 32 - 25 40 - 32	799 150 385 799 150 386 799 150 387 799 150 388 799 150 389	0.488 0.500 0.520 0.500 0.500	Inserts, Sets Inserts, Sets Inserts, Sets Inserts, Sets Inserts, Sets
63 - 40	799 150 390 799 150 391 799 150 392	0.520 0.520 0.520	Inserts, Sets Inserts, Sets Inserts, Sets



Clamping device Topload 315

- This clamp and mounting tool is used for top-load Saddles on pipes of dimensions d 280 - 400 mm.
- Scope of delivery: 1 base mounting clamp, 1 bracket, 2 clamping screws, 2 ratchet scraps, 1 transport box

-d Code	kg
30 - 400 799 350 475	10.01



Clamping device topload 400

- This clamp and mounting tool is used for top-load Saddles on pipes of dimensions d 280 400 mm.
- Scope of delivery: 1 base mounting clamp, 1 bracket, 2 clamping screws, 2 ratchet scraps, 1 transport box

d-d [mm]	Code	kg			
280 - 400	799 350 475	10.010			



Clamping device topload 630

- This clamp and mounting tool is used for top-load Saddles on pipes of dimensions d 280 400 mm and branch fittings for dimensions d 280 mm 630 mm.
- Scope of delivery: 1 base mounting clamp, 1 clamping attachment, 1 bracket, 2 clamping screws, 2 ratchet scraps, 1 transport box

d-d [mm]	Code	kg
280 - 630	799 350 477	35.000



Clamping attachment topload 630

- Clamping attachment as single part for extension of Topload tool 400 (799 350 475)
- Suitable for Branch fittings dimension d 280 mm 630 mm

d-d [mm]	kg
280 - 630	5.000



9 150 090

Spring Clamp for ELGEF® 24 V Reinforcing Saddles

The Spring Clamp is used to install ELGEF® 24 V reinforcing saddles d 40 - 225 mm.
 The tool ensures a constant jointing pressure during the entire fusion cycle.

Code kg	g
5 799 150 090 1.	1.180



Assembly and Tapping Key for ELGEF® Plus Saddles

Туре	Code	kg	Description	
8/10/17	799 198 047	0.798	For all saddles	



Tapping Key for ELGEF® Plus Saddles

• With adjustable tapping depth.

Туре	Code	kg	Description	
10	799 198 080		for Monobloc d 40 mm and d 50 mm	
17	799 198 079	0.556	for Monobloc d 63 mm, d 90 - 160 mm and all Duobloc saddles	
12.7	799 198 091		for socket with cutter	



Hexagon Key for ELGEF® Plus Saddles and Branch Fittings

Туре	Code	kg	Description	
SW8	799 150 378	0.129	For all saddles and branch fittings	



Tapping Adapter for ELGEF® Plus Saddles

 The Adapter is used for gas-free tapping under pressure. Type S 54 for tapping saddles with rotatable outlet d 20 - 40 mm (Tapping Tee d 32 mm). Type S 67 for tapping saddles with rotatable outlet d 50 - 63 mm (Tapping Tee d 63 mm).

Туре	Code	kg	Description	
S 54 S 67	799 100 061 799 100 062		for Tapping Tee d 32 mm for Tapping Tee d 63 mm	



Pressure Test Cap for ELGEF® Plus Tapping Saddles

- The cap has a Rp 3/8" connection thread and is made from galvanised steel.
- Overview of Tapping Adapter types and Pressure Test Cap
- M For Monobloc d 40 and 50 mm (outlets d 20 32 mm)
- S 54 For all saddles with rotatable outlet (outlets d 20 40 mm) i.e. Tapping Tee d 20
- S 67 For all Saddles with rotatable outlet (outlets d 50 and 63 mm) i.e. Tapping Tee d 63 mm.

Type	Code	kg	Description	
	799 199 283	7.142	for Monobloc d 40 mm and d 50 mm for Tapping Tee d 20 - 40 mm for Tapping Tee outlet d 63 mm	



Cutter for PE Pipes

• This cutter is suitable for PE pipes and can be used on pipes of up to d 225 mm with a wall thickness of up to 21 mm.

d [mm]	Code	kg	Description	
39	799 198 012	0.215	accessories Basic Tool Box	



PE Repair Plug

 PE Repair Plugs are suitable for use with ELGEF® 24 V PE Reinforcement Saddles 53 127 000.

d [mm]	Code	kg
	799 199 088 799 199 089	0.012 0.019



Hexagon Key for PVC Saddles

- The Hexagon Key is suitable for tapping water and gas mains under pressure.
 Scope of delivery: 1 hexagon key, protective cover, without rotating pin.

d-d	Code	kg	s	G
[mm]			[mm]	[inch]
16 - 2	799 150 007	0.342	19	30
32 - 40	799 150 008	0.496	27	38
50 - 63	7 99 150 009	0.690	27	47

Accessories and Tools for Welding Machines

Heating Spigots and Bushes



- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)

Code	kg	kg/m
799 300 155	0.085	0.085
799 300 157	0.154	0.154
799 300 158	0.211	0.211
799 300 159	0.230	0.230
799 300 160	0.434	0.434
799 300 161	0.594	0.594
799 300 162	0.981	0.981
700 000 400	1.440	1.440
799 300 163	1.440	1.440
	799 300 155 799 300 157 799 300 158 799 300 159 799 300 160 799 300 161 799 300 162	799 300 155

5310

Tempil sticks



Temperature [°C]	Code	kg	kg/m
_	Code	kg	
253	761 066 796	0.012	0.0
2/4	761 066 797	0.014	0.014

-

Manual Pipe Peeling Tool for Socket Fusion

d [mm]	Code	kg	kg/m
20	799 300 260	0.087	0.087
25	799 300 270	0.080	0.080
32	799 300 280	0.099	0.099
40	799 300 290	0.240	0.240
50	799 300 300	0.244	0.244
63	799 300 310	0.507	0.507
75	799 300 320	0.680	0.680
90	799 300 330	1.006	1.006
110	799 300 340	1.355	1.355



KS Tangit Cleaner

• Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.

Code	kg	kg/m
799 298 023	0.872	0.872



Tangit KS-Cleaning Tissues

- · for plastic welding joints PB, PE, PP, PVDF
- Sales unit:1 dispenser with 100 tissues.

Code	kg	kg/m
799 298 024	0.333	0.333



Marker

Туре	Code	kg	kg/m
silver	799 350 364	0.010	0.010

90 10 90

PPC Plastic pipe cutter

• For cutting plastic pipes d10 - d160



d-d Article Code kg kg/m [mm] 10 - 63 PPC 63, s max. = 7.2mm 790 109 001 0.865 0.865 50 - 110 PPC 110, s max. = 12.7mm 790 109 002 1.624 1.624 110 - 160 PPC 160, s max. = 19.0mm 790 109 003 2.212 2.212

90 10 90

Replacement cutting wheels



• for plastic pipe cutter

d-d [mm]	Article	Code	kg	kg/m	
50 - 110	SR 63 max. s=7,2 mm SR 110/160 max. s=12,7 mm SR 160 max. s=19,0 mm	790 109 011 790 109 012 790 109 013	0.004 0.015 0.023	0.004 0.015 0.023	

General Condition of Supply of Georg Fischer Piping Systems (Switzerland) Limited, Schaffhausen

1 General

1.1 These General Conditions shall apply to all Products supplied by Georg Fischer to the Purchaser.

They shall also apply to all future business even when no express reference is made to them.

- 1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.
- 1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

- 3.1 Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

- 4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.
- 4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

- 5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.
- 5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc .

6 Local Laws and Regulations, Export Controls

- 6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.
- 6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

- 7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms of the ICC, latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import- licences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

- 8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.
- 8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser.
 - In particular, payment shall still be made when unessential items are still outstanding provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

- 9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.
- 9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.
- 9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
 - if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.
 - b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially unpractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, seri-

ous disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.

Should the effect of force majeure exceed a period of six months, either party may cancel the contract forthwith.

Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting therefrom, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.

- c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.
- 10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one month which equally is not met.

The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.

- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.
- 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to a penalty amounting to 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved. Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

11 Packing

If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

- 12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms ICC, latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.

13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind.

Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.

13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.

In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.

13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier.

Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture.

Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.

- 14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within 7 working days after discovery, in any event within the agreed warranty period.
- 14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

15.1 At the written request of the Purchaser, Georg Fischer undertakes to repair or replace at its discretion, as quickly as possible and free of charge, all Products supplied which demonstrably suffer from faulty design, materials or workmanship, from faulty operating or installation instructions or which become defective or unusable due to faulty advice.

In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.

Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.

15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.

- 15.3 The Purchaser shall be entitled to cancel the contract or to demand a reduction in the contract price if also a second attempt to repair or replace the Products has failed.
- 15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.
- 15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
- 15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.
- 15.7 In case of Products for use in domestic installations or in utilities
 - Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object up to CHF 1'000'000 per occurrence.
 - the statute of limitations for warranty or damage claims contrary to Section 15.6 will be 5 years from the date of installation.

16 Limitation of Liability

The rights and remedies of the customer are exclusively governed by these General Conditions of Supply. All further claims for damages, reduction of the purchase price, termination of or rescission of the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit, third party recovery claims and other direct or indirect or consequential damages.

This limitation of liability, however, does not apply in case unlawful intent or gross negligence on the part of Georg Fischer's management and in case of strict liability, in particular under applicable product liability statutes.

17 Severability

Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
 - Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.
- 18.3 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

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160 480 118	499	161 311 732	535	161 369 149	566
160 480 119	499	161 311 733	535	161 369 150	566
160 480 120	499	161 330 304	558	161 369 151	566
160 480 130	512	161 330 354	558	161 369 152	566
161 300 308	553	161 330 404	558	161 480 132	560
161 300 358	553	161 330 454	558	161 480 133	560
161 300 408	553	161 330 504	558	161 480 141	559
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161 305 339	553	161 340 623	559	161 480 239	540
161 305 353	552	161 340 023	520	161 480 240	540
161 305 386	554	161 367 051	520	161 480 241	540
161 305 387	553	161 367 052	521	161 480 242	540
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161 305 388	553	161 367 072	521	161 480 282	532
161 305 389	553	161 367 171	520	161 480 283	532
161 305 403	552	161 367 172	520	161 480 284	532
161 305 436	554	161 367 191	521	161 480 285	532
161 305 437	553	161 367 192	521	161 480 286	532
161 305 438	553	161 367 351	521	161 480 287	532
161 305 439	553	161 367 352	521	161 480 420	510
161 305 453	552	161 367 371	521	161 480 522	500
161 305 486	554	161 367 625	520	161 480 536	500
161 305 487	553	161 367 626	520	161 480 537	500
161 305 488	553	161 367 627	520	161 480 538	500
161 305 489	553	161 367 628	520	161 480 539	500
161 305 503	552	161 367 629	520	161 480 540	500
161 305 536	554	161 367 630	520	161 480 541	500
161 305 537	553	161 367 635	521	161 480 542	500
161 305 538	553	161 367 636	521	161 480 543	500
161 305 539	553	161 367 637	521	161 480 544	500
161 305 553	552	161 367 638	521	161 480 545	500
161 305 586	554	161 367 639	521	161 480 546	500
161 305 587	553	161 367 640	521	161 480 547	500
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