

## PROGEF® Plus General Information



- Pipes
- Butt Fusion System

# PROGEF Plus – System Specification






<b>Material</b>	Beta PP-H 100 (Beta Polypropylene Homopolymer) d20 - d225	State-of-the-art PP (Polypropylene) d250 - d315
Colour	RAL 7032 pebble grey	RAL 7032 pebble grey
Density	~0.90g/cm <sup>3</sup> (ISO 1183/ASTM D792)	~0.90g/cm <sup>3</sup> (ISO 1183 / ASTM D792)
Surface tension	31 mJ/m <sup>2</sup>	24 mJ/m <sup>2</sup>
Linear expansion coefficient	0.16 mm/mK (DIN 53752)	0.16-0.18 mm/mK (DIN 53752)
E-modulus	1300N/mm <sup>2</sup> (ISO 527/ASTM D790)	900N/mm <sup>2</sup> (ISO 527/ASTM D790)
Thermal conductivity	0.23 W/mK (EN 12664)	0.23 W/mK (EN 12664)
Surface resistivity	> 10 <sup>16</sup> Ω (IEC 60093)	> 10 <sup>16</sup> Ω (IEC 60093)
<b>Dimension</b>	d20 – d315 in accordance to EN ISO 15494	
<b>Pressure Rating</b>	Pipes/Fittings/Diaphragm and ball valves: d20 – d225 SDR11, PN10, c=2.0 d50 – d225 SDR17.6, PN6, c=2.0 Butterfly valves: d63–d225, PN10	Pipes/Fittings: d250 – d315 SDR11, PN10, c=2.0 d250 – d315 SDR17.6, PN6, c=2.0
<b>Temperature Rating</b>	From 0°C to 80°C (32°F – 176°F)	
<b>Production</b>	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.	
<b>Surface Finish</b>	Inner surface Ra ≤ 1.0 µm (39 µin) for components d20 – d110 Inner surface Ra ≤ 1.5 µm (59 µin) for components d125 – d315	
<b>Marking</b>	All components are embossed with a permanent identification during the production process to ensure full traceability: Lot No Material Dimension Pressure Rating	
<b>Testing and Inspection</b> (EN ISO 15494)	Visual inspection Surface finish Dimension tolerance Pressure testing Full product range passed the Initial Type Test (ITT)	
<b>Approvals/Conformance</b> <sup>(1)</sup>	FDA CFR 21 177.1520 USP 25 class VI (physiological non-toxic)	
<b>Welding Technology</b>	IR Plus, infrared fusion (DVS 2207-6): d20 – d225 Butt fusion (DVS 2207-11): d20 – d315	
<b>Documentation</b> <sup>(2)</sup>	EN 10204 2.2 / EN 10204 3.1	
<b>Packing</b>	Pipes: Capped and double bagged in specified bag Fittings/valves: Each component double bagged in specified bag	
<b>Labeling</b>	Brand Name Product Description Code Number Material Dimension CE-labeling <sup>(3)</sup> Approvals	
<b>Main Applications</b>	Due to the special treatment, PROGEF Plus piping systems are suitable for economical delivery of ultrapure water in semiconductor and TFT/FPD applications and ensure high quality in the paint industry. Highly resistant to impact, abrasion and many chemicals.	

<sup>(1)</sup> For thermoplastic material only

<sup>(2)</sup> On request

<sup>(3)</sup> From 2008 on

# PROGEF Plus Pipes, Fittings, Unions, Flanges and Flange Adap- tors

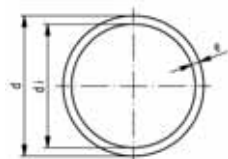
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# Pipes

## PROGEF Plus S5/SDR11 (PN10)

### Model:

- Material: PP-H
- DIN 8077 / 8078 - DIBT Z-40.23-4
- Closed with caps and double bagged (LDPE-foil)
- Colour: RAL 7032 pebble grey
- Length: Lengths of 5 m



d [mm]	PN	Code	kg/m	e [mm]	di [mm]
20	10	<b>167 481 711</b>	0.107	1.9	16.2
25	10	<b>167 481 712</b>	0.164	2.3	20.4
32	10	<b>167 481 713</b>	0.261	2.9	24.2
40	10	<b>167 481 714</b>	0.412	2.9	32.6
50	10	<b>167 481 715</b>	0.638	4.6	40.8
63	10	<b>167 481 716</b>	1.010	5.8	51.4
75	10	<b>167 481 717</b>	1.410	6.8	61.4
90	10	<b>167 481 718</b>	2.030	8.2	73.6
110	10	<b>167 481 719</b>	3.010	10.0	90.0
125	10	<b>167 481 720</b>	3.910	11.4	102.2
140	10	<b>167 481 721</b>	4.870	12.7	114.6
160	10	<b>167 481 722</b>	6.380	14.6	130.8
180	10	<b>167 481 723</b>	8.070	16.4	147.2
200	10	<b>167 481 724</b>	9.950	18.2	163.6
225	10	<b>167 481 725</b>	12.600	20.5	184.0
250	10	<b>167 481 726</b>	15.500	22.7	184.6
280	10	<b>167 481 727</b>	19.400	25.4	229.2
315	10	<b>167 481 728</b>	24.600	28.6	257.0

# Fittings for Butt Fusion

## PROGEF Plus bend 90° S5/SDR11

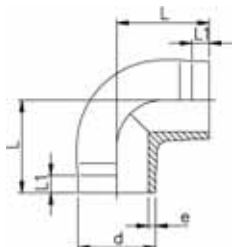


### Model:

- 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

d [mm]	FM	Code	L [mm]	L1 [mm]	R [mm]	e [mm]
20	IR	727 018 681	38	23	15	1,9
25	IR	727 018 682	42	23	19	2,3
32	IR	727 018 683	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	IR	727 018 662	100	20	90	6,8
90	IR	727 018 663	100	20	90	8,2
110	IR	727 018 664	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	727 018 477	175	15	160	14,6
180	IR	727 018 478	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

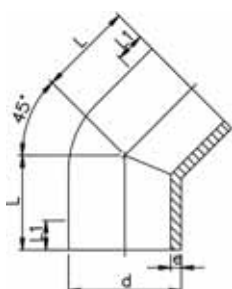


### Model:

- 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



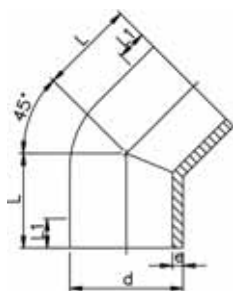
### Model:

- 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

<sup>1</sup> 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

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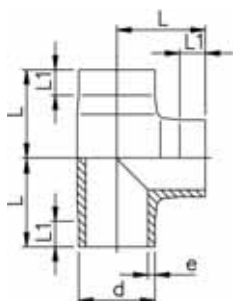


d [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
110	IR	<b>727 158 589</b>	70	43	10,0
125	IR	<b>727 158 590</b>	79	48	11,4
140	IR	<b>727 158 591</b>	88	55	12,7
160	IR	<b>727 158 592</b>	100	60	14,6
200	IR	<b>727 158 594</b>	124	75	18,2
225	IR	<b>727 158 595</b>	140	85	20,5
250	--	<b>727 158 596</b>	225	133	22,7
280	--	<b>727 158 597</b>	235	143	25,4
315	--	<b>727 158 598</b>	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

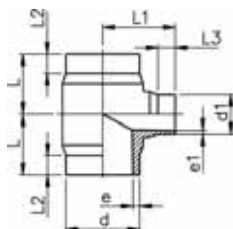


d [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
20	IR	<b>727 208 581</b>	38	24	1,9
25	IR	<b>727 208 582</b>	42	26	2,3
32	IR	<b>727 208 583</b>	46	26	2,9
40	IR	<b>727 208 584</b>	51	23	3,7
50	IR	<b>727 208 585</b>	58	22	4,6
63	IR	<b>727 208 586</b>	66	20	5,8
75	IR	<b>727 208 587</b>	75	20	6,8
90	IR	<b>727 208 588</b>	90	20	8,2
110	IR	<b>727 208 589</b>	110	20	10,0
125	IR	<b>727 208 590</b>	125	25	11,4
140	IR	<b>727 208 591</b>	140	28	12,7
160	IR	<b>727 208 592</b>	160	28	14,6
180	IR	<b>727 208 593</b>	195	73	16,4
200	IR	<b>727 208 594</b>	200	35	18,2
225	IR	<b>727 208 595</b>	220	35	20,5
250	--	<b>727 208 596</b>	275	86	22,7
280	--	<b>727 208 597</b>	310	105	25,4
315	--	<b>727 208 598</b>	350	111	28,6

## Tee 90° reducing, S5/SDR11

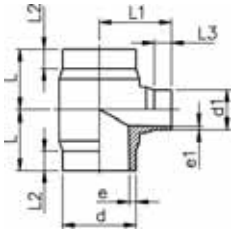
### Model:

- 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 [mm]	d1 [mm]	FM	Code	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
63	32	IR	<b>727 208 251</b>	65	70	25	25	5,8	2,9
63	50	IR	<b>727 208 252</b>	65	70	25	25	5,8	4,6
75	32	IR	<b>727 208 253</b>	70	75	25	25	6,8	2,9
75	50	IR	<b>727 208 254</b>	70	75	25	25	6,8	4,6
75	63	IR	<b>727 208 255</b>	70	75	25	25	6,8	5,8
90	50	IR	<b>727 208 257</b>	80	85	25	25	8,2	4,6
90	63	IR	<b>727 208 258</b>	80	85	25	25	8,2	5,8
90	75	IR	<b>727 208 259</b>	80	85	25	25	8,2	6,8
110	32	IR	<b>727 208 260</b>	90	95	30	25	10,0	2,9
110	50	IR	<b>727 208 261</b>	90	95	30	25	10,0	4,6
110	63	IR	<b>727 208 262</b>	90	95	30	25	10,0	5,8
110	75	IR	<b>727 208 263</b>	90	95	30	25	10,0	6,8
110	90	IR	<b>727 208 264</b>	90	95	30	25	10,0	8,2
160	63	IR	<b>727 208 271</b>	142	135	50	30	14,6	5,8
160	75	IR	<b>727 208 272</b>	142	135	50	30	14,6	6,8
160	90	IR	<b>727 208 273</b>	142	135	50	30	14,6	8,2
160	110	IR	<b>727 208 274</b>	142	135	50	30	14,6	10,0

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d [mm]	d1 [mm]	FM	Code	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
225	90	IR	<b>727 208 288</b>	155	165	40	30	20,5	8,2
225	110	IR	<b>727 208 289</b>	155	165	40	30	20,5	10,0
225	160	IR	<b>727 208 291</b>	155	165	40	30	20,5	14,6

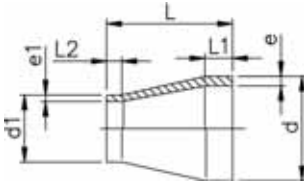


## Reducers, S5/SDR11

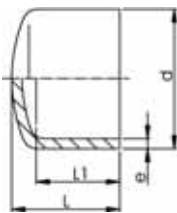
### Model:

- 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

<sup>1</sup> Material: PP-R



d [mm]	d1 [mm]	FM	Code	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
25	20	IR	<b>727 908 637</b>	50	20	20	2,3	1,9
32	20	IR	<b>727 908 642</b>	50	20	20	2,9	1,9
32	25	IR	<b>727 908 641</b>	50	20	20	2,9	2,3
40	20	IR	<b>727 908 648</b>	58	20	23	3,7	1,9
40	25	IR	<b>727 908 647</b>	55	20	20	3,7	2,3
40	32	IR	<b>727 908 646</b>	55	20	20	3,7	2,9
50	25	IR	<b>727 908 654</b>	60	20	20	4,6	2,3
50	32	IR	<b>727 908 653</b>	60	20	20	4,6	2,9
50	40	IR	<b>727 908 652</b>	60	20	20	4,6	3,7
63	32	IR	<b>727 908 660</b>	65	20	20	5,8	2,9
63	40	IR	<b>727 908 659</b>	65	20	20	5,8	3,7
63	50	IR	<b>727 908 658</b>	65	20	20	5,8	4,6
75	40	IR	<b>727 908 666</b>	68	20	20	6,8	3,7
75	50	IR	<b>727 908 665</b>	65	20	20	6,8	4,6
75	63	IR	<b>727 908 664</b>	65	20	20	6,8	5,8
90	63	IR	<b>727 908 671</b>	75	22	19	8,2	5,8
90	75	IR	<b>727 908 670</b>	75	21	19	8,2	6,8
110	75	IR	<b>727 908 677</b>	90	28	18	10,0	6,8
110	90	IR	<b>727 908 676</b>	90	28	20	10,0	8,2
125	110	IR	<b>727 908 680</b>	100	31	30	11,4	10,0
140	110	IR	<b>727 908 685</b>	110	33	29	12,7	10,0
140	125	IR	<b>727 908 684</b>	110	34	30	12,7	11,4
160	110	IR	<b>727 908 690</b>	120	38	27	14,6	10,0
160	140	IR	<b>727 908 688</b>	120	40	35	14,6	12,7
180	90	IR	<b>727 908 691</b>	157	45	22	16,4	8,2
180	110	IR	<b>727 908 955</b>	157	45	28	16,4	10,0
180	125	IR	<b>727 908 698</b>	136	45	32	16,4	11,4
180	140	IR	<b>727 908 699</b>	136	45	35	16,4	12,7
180	160	IR	<b>727 908 952</b>	136	45	40	16,4	14,6
200	160	IR	<b>727 908 692</b>	145	50	40	18,2	14,6
200	180	IR	<b>727 908 693</b>	151	50	45	18,2	16,4
225	110	IR	<b>727 908 695</b>	160	55	35	20,5	10,0
225	160	IR	<b>727 908 696</b>	160	55	40	20,5	14,6
225	180	IR	<b>727 908 694</b>	171	55	45	20,5	16,4
225	200	IR	<b>727 908 697</b>	160	55	50	20,5	18,2
250	160	--	<b>727 908 700</b>	194	60	40	22,7	14,6
250	225	--	<b>727 908 701</b>	182	60	55	22,7	20,5
<sup>1</sup> 280	225	--	<b>727 908 702</b>	200	85	80	25,4	20,5
<sup>1</sup> 280	250	--	<b>727 908 703</b>	200	85	90	25,4	22,7
<sup>1</sup> 315	225	--	<b>727 908 704</b>	230	95	88	28,6	20,5
<sup>1</sup> 315	250	--	<b>727 908 705</b>	230	95	95	28,6	22,7
<sup>1</sup> 315	280	--	<b>727 908 706</b>	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 [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
20	IR	<b>727 968 981</b>	45	35	1,9
25	IR	<b>727 968 982</b>	52	40	2,3
32	IR	<b>727 968 983</b>	58	44	2,9
40	IR	<b>727 968 984</b>	67	50	3,7
50	IR	<b>727 968 985</b>	75	55	4,6
63	IR	<b>727 968 986</b>	85	62	5,8
75	IR	<b>727 968 987</b>	95	63	6,8
90	IR	<b>727 968 988</b>	110	79	8,2
110	IR	<b>727 968 989</b>	127	88	10,0
125	IR	<b>727 968 990</b>	138	102	11,4
140	IR	<b>727 968 991</b>	144	106	12,7
160	IR	<b>727 968 992</b>	154	109	14,6
180	IR	<b>727 968 993</b>	191	141	16,4
200	IR	<b>727 968 994</b>	181	127	18,2
225	IR	<b>727 968 995</b>	211	141	20,5



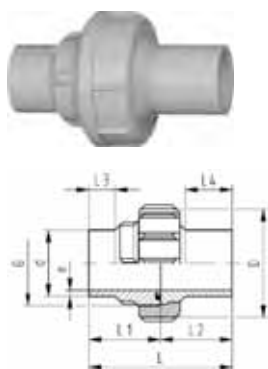
# Unions for Butt Fusion

EPDM 27 51 86  
FPM 27 52 86

## 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



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

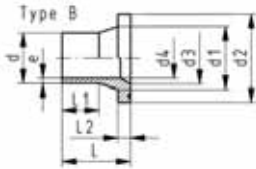
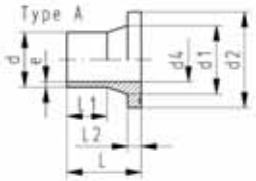
d [mm]	G [inch]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	O-Ring EPDM	O-Ring FPM	Size
20		107	54	53	26	1,9	748.413.006	749.413.006	20,22 x 3,53
25	1 1/4	113	57	56	26	2,3	748.413.007	749.413.007	28,17 x 3,53
32	1 1/2	119	60	59	26	2,9	748.413.008	749.413.008	32,93 x 3,53
40	2	126	63	63	26	3,7	748.413.009	749.413.009	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



d [mm]	DN [mm]	FM	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
20	15	IR	<b>727 798 731</b>	26	45		16	50	29	7	1.9	A
25	20	IR	<b>727 798 732</b>	32	58		20	52	27	9	2.3	A
32	25	IR	<b>727 798 733</b>	40	68		26	54	28	10	2.9	A
40	32	IR	<b>727 798 734</b>	49	78		32	56	25	11	3.7	A
50	40	IR	<b>727 798 735</b>	60	88		40	62	32	12	4.6	A
63	50	IR	<b>727 798 736</b>	75	102		51	68	38	14	5.8	A
75	65	IR	<b>727 798 737</b>	89	122	66	61	80	43	16	6.8	B
90	80	IR	<b>727 798 738</b>	105	138	78	73	80	41	17	8.2	B
110	100	IR	<b>727 798 739</b>	125	158	100	90	80	40	18	10.0	B
125	100	IR	<b>727 798 740</b>	132	158	114	102	82	35	25	11.4	B
140	125	IR	<b>727 798 741</b>	155	188	127	114	89	39	25	12.7	B
160	150	IR	<b>727 798 742</b>	175	212	151	130	92	45	25	14.6	B
180	150	IR	<b>727 798 743</b>	180	212	154	147	80	45	30	16.4	B
200	200	IR	<b>727 798 744</b>	232	268	203	163	100	30	32	18.2	B
225	200	IR	<b>727 798 745</b>	235	268	210	184	100	35	32	20.5	B
250	250		<b>727 798 746</b>	285	320	250	204	100	25	35	22.7	B
280	250		<b>727 798 747</b>	291	320	265	229	100	35	35	25.4	B
315	300		<b>727 798 748</b>	335	370	300	257	100	25	35	28.6	B

27 70 14  
27 70 15

## Backing flange PP-V For butt fusion systems Inch ANSI

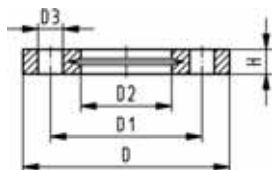
### Model:

- 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**

<sup>1)</sup> 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
1/2	15	20	16	<b>727 701 406</b>	95	60.0	28	16	16	4	M12
3/4	20	25	16	<b>727 701 407</b>	105	70.0	34	16	17	4	M12
1	25	32	16	<b>727 701 408</b>	115	79.0	42	16	18	4	M12
1 1/4	32	40	16	<b>727 701 409</b>	140	89.0	51	16	20	4	M16
1 1/2	40	50	16	<b>727 701 410</b>	150	98.0	62	16	22	4	M16
2	50	63	16	<b>727 701 411</b>	165	121.0	78	19	24	4	M16
2 1/2	65	75	16	<b>727 701 412</b>	185	140.0	92	19	26	4	M16
3	80	90	16	<b>727 701 513</b>	200	152.0	108	19	27	4	M16
4	100	110	16	<b>727 701 514</b>	229	190.0	128	19	28	8	M16
10	250	250	16	<b>727 701 521</b>	406	362.0	288	26	38	12	M20
10	250	280	16	<b>727 701 522</b>	406	362.0	294	26	38	12	M20
12	300	315	16	<b>727 701 523</b>	483	432.0	338	26	42	12	M20

27 70 04  
27 70 05

## Backing flange PP-V For butt fusion systems metric

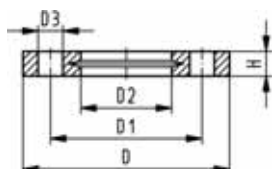
### Model:

- 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

<sup>1)</sup> Suitable for socket- and butt fusion systems (no pictograph on flange)



d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
<sup>1)</sup> 20	15	16	<b>727 700 406</b>	95	65.0	28	14	16	4	M12
<sup>1)</sup> 25	20	16	<b>727 700 407</b>	105	75.0	34	14	17	4	M12
<sup>1)</sup> 32	25	16	<b>727 700 408</b>	115	85.0	42	14	18	4	M12
<sup>1)</sup> 40	32	16	<b>727 700 409</b>	140	100.0	51	18	20	4	M16
<sup>1)</sup> 50	40	16	<b>727 700 410</b>	150	110.0	62	18	22	4	M16
<sup>1)</sup> 63	50	16	<b>727 700 411</b>	165	125.0	78	18	24	4	M16
<sup>1)</sup> 75	65	16	<b>727 700 412</b>	185	145.0	92	18	26	4	M16
90	80	16	<b>727 700 513</b>	200	160.0	108	18	27	8	M16
110	100	16	<b>727 700 514</b>	220	180.0	128	18	28	8	M16
125	100	16	<b>727 700 515</b>	220	180.0	135	18	28	8	M16
140	125	16	<b>727 700 516</b>	250	210.0	158	18	30	8	M16
180	150	16	<b>727 700 518</b>	285	240.0	188	22	32	8	M20
250	250	16	<b>727 700 521</b>	395	350.0	288	22	38	12	M20
280	250	16	<b>727 700 522</b>	395	350.0	294	22	38	12	M20
315	300	16	<b>727 700 523</b>	445	400.0	338	22	42	12	M20

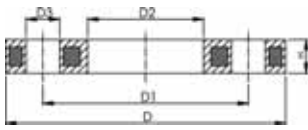
27 70 12

## 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
½	15	20	16	<b>727 701 206</b>	60	28	16	95	12	4	M12
¾	20	25	16	<b>727 701 207</b>	70	34	16	105	12	4	M12
1	25	32	16	<b>727 701 208</b>	79	42	16	115	16	4	M12
1 ¼	32	40	16	<b>727 701 209</b>	89	51	16	140	16	4	M16
1 ½	40	50	16	<b>727 701 210</b>	98	62	16	150	18	4	M16
2	50	63	16	<b>727 701 211</b>	121	78	19	165	18	4	M16
2 ½	65	75	16	<b>727 701 212</b>	140	92	19	185	18	4	M16
3	80	90	16	<b>727 701 313</b>	152	108	19	200	20	4	M16
4	100	110	16	<b>727 701 314</b>	190	128	19	229	20	8	M16
8	200	200	16	<b>727 701 319</b>	298	235	22	340	27	8	M20
8	200	225	16	<b>727 701 320</b>	298	238	22	340	27	8	M20

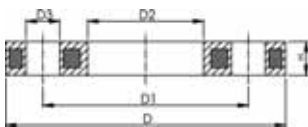
27 70 02  
27 70 03

## 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



d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20	15	16	<b>727 700 206</b>	95	65	28	14	12	4	M12
25	20	16	<b>727 700 207</b>	105	75	34	14	12	4	M12
32	25	16	<b>727 700 208</b>	115	85	42	14	16	4	M12
40	32	16	<b>727 700 209</b>	140	100	51	18	16	4	M16
50	40	16	<b>727 700 210</b>	150	110	62	18	20	4	M16
63	50	16	<b>727 700 211</b>	165	125	78	18	20	4	M16
75	65	16	<b>727 700 212</b>	185	145	92	18	20	4	M16
90	80	16	<b>727 700 313</b>	200	160	108	18	20	8	M16
110	100	16	<b>727 700 314</b>	220	180	128	18	20	8	M16
125	100	16	<b>727 700 315</b>	220	180	135	18	20	8	M16
140	125	16	<b>727 700 316</b>	250	210	158	18	24	8	M16
180	150	16	<b>727 700 318</b>	285	240	188	22	24	8	M20
200	200	16	<b>727 700 319</b>	340	295	235	22	27	8	M20
225	200	16	<b>727 700 320</b>	340	295	238	22	27	8	M20
250	250	16	<b>727 700 321</b>	395	350	288	22	30	12	M20
280	250	16	<b>727 700 322</b>	395	350	294	22	30	12	M20
315	300	16	<b>727 700 323</b>	445	400	338	22	34	12	M20



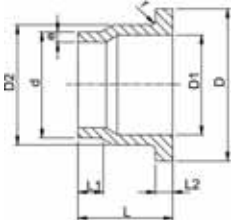
## PROGEF Plus outlet flange adaptor S5/SDR11 Combined jointing Face: flat and serrated

### 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 [mm]	DN [mm]	Code	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	r [mm]
40	32	<b>727 808 134</b>	80	37	50	64	30	11	3,7	3
50	40	<b>727 808 135</b>	90	43	61	67	30	12	4,6	3
63	50	<b>727 808 136</b>	105	54	76	74	30	14	5,8	4
75	65	<b>727 808 137</b>	125	70	90	78	30	16	6,8	4
90	80	<b>727 808 138</b>	140	82	108	87	35	17	8,2	4
110	100	<b>727 808 139</b>	160	105	131	102	41	18	10,0	4
140	125	<b>727 808 141</b>	190	130	165	124	47	25	12,7	4
160	150	<b>727 808 142</b>	215	158	188	149	52	25	14,6	4
225	200	<b>727 808 145</b>	270	206	248	180	55	32	20,5	4
280	250	<b>727 808 147</b>	325	259	308	240	63	35	25,4	4
315	300	<b>727 808 148</b>	375	308	346	272	66	35	28,6	4

EPDM 48 44 17  
FPM 49 44 17

## Profile flange gasket silicone free

### 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**

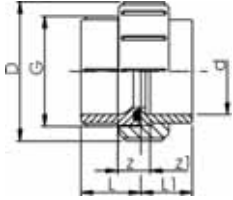
di FA are the suitable inner diameters of flange adaptors



d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
20	15	16	<b>748 441 706</b>	<b>749 441 706</b>	51	20	4	3	10 - 20
25	20	16	<b>748 441 707</b>	<b>749 441 707</b>	61	22	4	3	12 - 22
32	25	16	<b>748 441 708</b>	<b>749 441 708</b>	71	28	4	3	18 - 28
40	32	16	<b>748 441 709</b>	<b>749 441 709</b>	82	40	4	3	30 - 40
50	40	16	<b>748 441 710</b>	<b>749 441 710</b>	92	46	4	3	36 - 46
63	50	16	<b>748 441 711</b>	<b>749 441 711</b>	107	58	5	4	48 - 58
75	65	16	<b>748 441 712</b>	<b>749 441 712</b>	127	69	5	4	59 - 69
90	80	16	<b>748 441 713</b>	<b>749 441 713</b>	142	84	5	4	73 - 84
110	100	16	<b>748 441 714</b>	<b>749 441 714</b>	162	104	6	5	94 - 104
125	100	16	<b>748 441 715</b>	<b>749 441 715</b>	162	123	6	5	113 - 123
140	125	16	<b>748 441 716</b>	<b>749 441 716</b>	192	137	6	5	127 - 137
160 / 180	150	16	<b>748 441 717</b>	<b>749 441 717</b>	218	160	8	6	150 - 160
200	200	16	<b>748 441 719</b>	<b>749 441 719</b>	273	203	8	6	192 - 203
225	200	16	<b>748 441 720</b>	<b>749 441 720</b>	273	220	8	6	207 - 207
250	250	16	<b>748 441 721</b>	<b>749 441 721</b>	328	252	8	6	238 - 250
280	250	16	<b>748 441 722</b>	<b>749 441 722</b>	328	274	8	6	264 - 274
315	300	16	<b>748 441 723</b>	<b>749 441 723</b>	378	306	8	6	296 - 296

# Unions for Socket Fusion

EPDM 27 51 02  
FPM 27 52 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	10	727 510 255	727 520 255
20	10	727 510 256	727 520 256
25	10	727 510 257	727 520 257
32	10	727 510 258	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	10	727 510 272	727 520 272
90	10	727 510 273	727 520 273
110	10	727 510 274	727 520 274

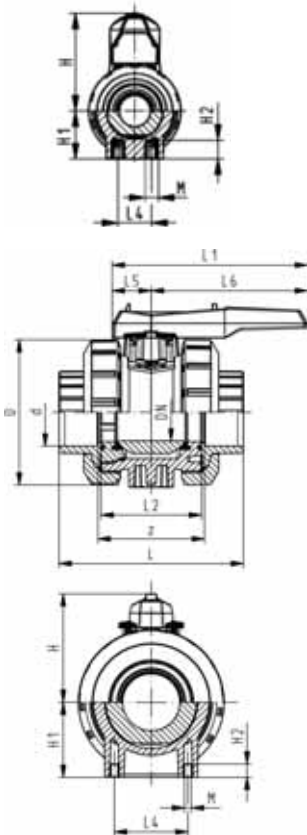
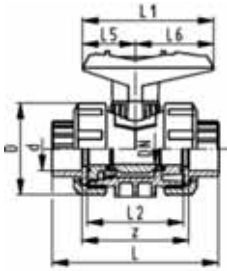
d [mm]	D [mm]	G [inch]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	O-Ring EPDM	O-Ring FPM	Size
16	35	3/4	24	18	5	11	748.413.005	749.413.005	15,54 x 2,62
20	48	1	26	19	5	12	748.413.006	749.413.006	20,22 x 3,53
25	58	1 1/4	28	21	5	12	748.413.007	749.413.007	28,17 x 3,53
32	65	1 1/2	30	23	5	12	748.413.008	749.413.008	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
	Ball Valve	360
	Ball valves	364
	Diaphragm valves silicon free	366
	Butterfly valves	375
	Cone check valves	379

# Ball Valve

## Ball Valve Type 546, PP-H SF with mounting inserts With fusion sockets 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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	71	167 546 601	167 546 611	0.115
20	15	10	185	167 546 602	167 546 612	0.115
25	20	10	350	167 546 603	167 546 613	0.180
32	25	10	700	167 546 604	167 546 614	0.255
40	32	10	1000	167 546 605	167 546 615	0.440
50	40	10	1600	167 546 606	167 546 616	0.610
63	50	10	3100	167 546 607	167 546 617	1.145
75	65	10	5000	167 546 608	167 546 618	3.700
90	80	10	7000	167 546 609	167 546 619	5.500
110	100	10	11000	167 546 610	167 546 620	8.700

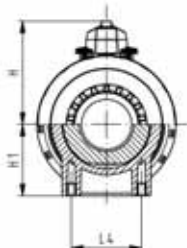
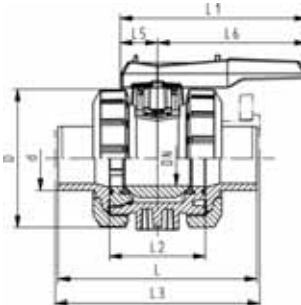
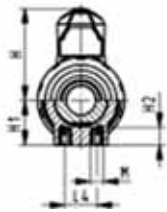
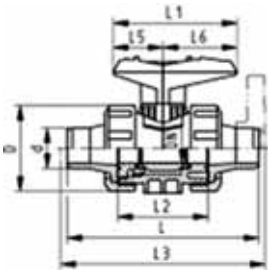
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]
16	50	57	27	12	93	77	56	25	32	45	M6	67
20	50	57	27	12	95	77	56	25	32	45	M6	66
25	58	67	30	12	108	97	65	25	39	58	M6	77
32	68	73	36	12	118	97	71	25	39	58	M6	83
40	84	90	44	15	137	128	85	45	54	74	M8	99
50	97	97	51	15	147	128	89	45	54	74	M8	105
63	124	116	64	15	168	152	101	45	66	87	M8	117
75	166	149	85	15	233	270	136	70	64	206	M8	167
90	200	161	105	15	254	270	141	70	64	206	M8	180
110	238	178	123	22	301	320	164	120	64	256	M12	215



# Ball Valve Type 546, PP-H SF with mounting inserts With socket fusion spigots metric



DN10/15 - 50



### 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:

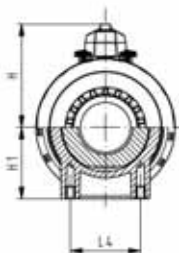
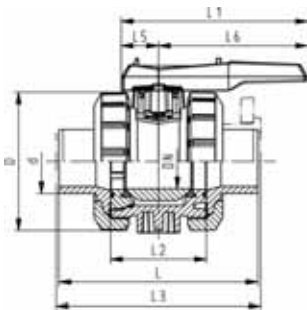
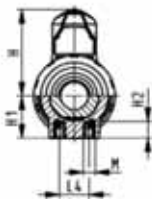
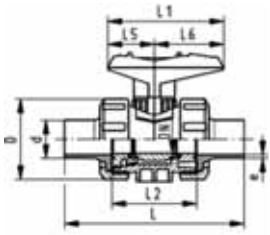
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches

d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg
16	10	10	71	<b>167 546 621</b>	<b>167 546 631</b>	0.120
20	15	10	185	<b>167 546 622</b>	<b>167 546 632</b>	0.120
25	20	10	350	<b>167 546 623</b>	<b>167 546 633</b>	0.180
32	25	10	700	<b>167 546 624</b>	<b>167 546 634</b>	0.260
40	32	10	1000	<b>167 546 625</b>	<b>167 546 635</b>	0.450
50	40	10	1600	<b>167 546 626</b>	<b>167 546 636</b>	0.640
63	50	10	3100	<b>167 546 627</b>	<b>167 546 637</b>	1.210
75	65	10	5000	<b>167 546 628</b>	<b>167 546 638</b>	3.800
90	80	10	7000	<b>167 546 629</b>	<b>167 546 639</b>	5.600
110	100	10	11000	<b>167 546 630</b>	<b>167 546 640</b>	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	50	57	27	12	110	77	56		25	32	45	M6
20	50	57	27	12	120	77	56	130	25	32	45	M6
25	58	67	30	12	139	97	65	150	25	39	58	M6
32	68	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	124	116	64	15	220	152	101	230	45	66	87	M8
75	166	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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	185	<b>167 546 662</b>	<b>167 546 672</b>	0.120
25	20	10	350	<b>167 546 663</b>	<b>167 546 673</b>	0.180
32	25	10	700	<b>167 546 664</b>	<b>167 546 674</b>	0.255
40	32	10	1000	<b>167 546 665</b>	<b>167 546 675</b>	0.440
50	40	10	1600	<b>167 546 666</b>	<b>167 546 676</b>	0.620
63	50	10	3100	<b>167 546 667</b>	<b>167 546 677</b>	1.200
75	65	10	5000	<b>167 546 668</b>	<b>167 546 678</b>	2.612
90	80	10	7000	<b>167 546 669</b>	<b>167 546 679</b>	5.500
110	100	10	11000	<b>167 546 670</b>	<b>167 546 680</b>	8.700

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	57	27	12	130	77	56	25	32	45	M6	1.9
25	58	67	30	12	143	97	65	25	39	58	M6	2.3
32	68	73	36	12	150	97	71	25	39	58	M6	3.0
40	84	90	44	15	171	128	85	45	54	74	M8	3.7
50	97	97	51	15	191	128	89	45	54	74	M8	4.6
63	124	116	64	15	220	152	101	45	66	87	M8	5.8
75	166	149	85	15	266	270	136	70	64	206	M8	8.2
90	200	161	105	15	264	270	141	70	64	206	M8	9.9
110	238	178	123	22	301	320	164	120	64	256	M12	12.0



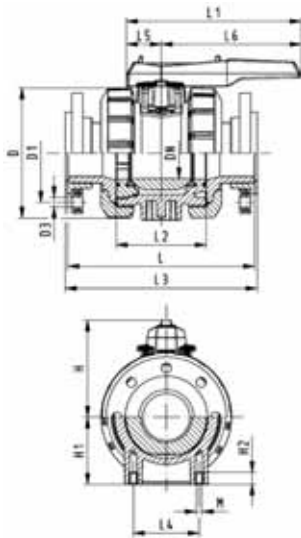
## Ball Valve Type 546, PP-H SF with mounting inserts With backing flanges PP-st metric

### 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



d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg
75	65	10	5000	<b>167 546 828</b>	<b>167 546 838</b>	4.300
90	80	10	7000	<b>167 546 829</b>	<b>167 546 839</b>	6.400
110	100	10	11000	<b>167 546 830</b>	<b>167 546 840</b>	10.000

d [mm]	D [mm]	D1 [mm]	D3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	H [mm]	H1 [mm]	M
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
110	238	180	18	336	320	164	350	120	64	256	178	123	12



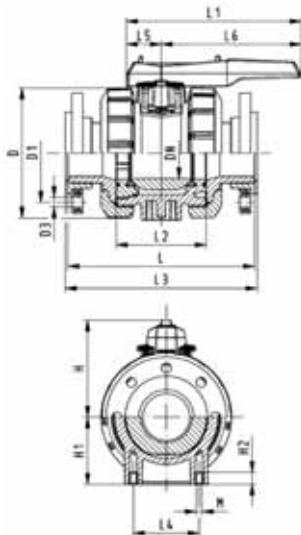
## Ball Valve Type 546, PP-H SF with mounting inserts With backing flanges PP-st Inch ANSI

### 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

### Option:

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



d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg
75	65	10	5000	<b>167 546 888</b>	<b>167 546 898</b>	4.300
90	80	10	7000	<b>167 546 889</b>	<b>167 546 899</b>	6.400
110	100	10	11000	<b>167 546 890</b>	<b>167 546 900</b>	10.000

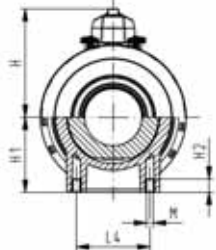
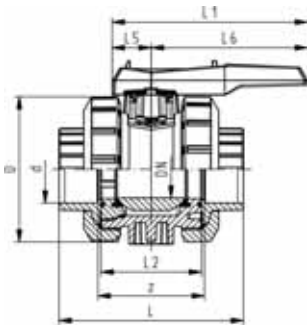
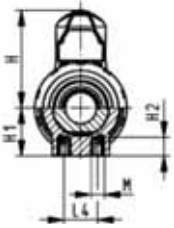
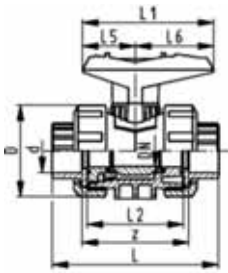
d [mm]	D [mm]	D1 [mm]	D3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	H [mm]	H1 [mm]	M
75	166	140	19	280	270	136	290	70	64	206	149	85	8
90	200	152	19	296	270	141	310	70	64	206	161	105	8
110	238	191	19	336	320	164	350	120	64	256	178	123	12

# Ball valves

## PROGEF Plus oil free Ball valve type 546 With mounting inserts With fusion sockets metric



DN10/15 - 50



### 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

### Option:

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

d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg
20	15	10	185	<b>167 546 902</b>	<b>167 546 912</b>	0.115
25	20	10	350	<b>167 546 903</b>	<b>167 546 913</b>	0.184
32	25	10	700	<b>167 546 904</b>	<b>167 546 914</b>	0.260
40	32	10	1000	<b>167 546 905</b>	<b>167 546 915</b>	0.440
50	40	10	1600	<b>167 546 906</b>	<b>167 546 916</b>	0.620
63	50	10	3100	<b>167 546 907</b>	<b>167 546 917</b>	1.145
75	65	10	5000	<b>167 546 908</b>	<b>167 546 918</b>	3.700
90	80	10	7000	<b>167 546 909</b>	<b>167 546 919</b>	5.500
110	100	10	11000	<b>167 546 910</b>	<b>167 546 920</b>	8.700

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]
20	50	57	27	12	95	77	56	25	32	45	M6	66
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	117
75	166	149	85	15	233	270	136	70	64	206	M8	167
90	200	161	105	15	254	270	141	70	64	206	M8	180
110	238	178	123	22	301	320	164	120	64	256	M12	215



DN10/15 - 50



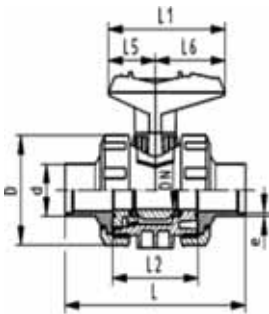
## PROGEF Plus oil free Ball valve type 546 With mounting inserts With butt fusion spigots IR-Plus SDR11 metric

### Model:

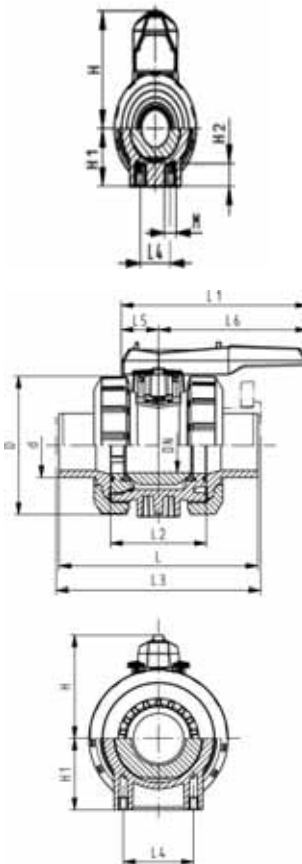
- Material: PP-H / oil free cleaned
- For easy installation and removal
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Integrated stainless steel mounting inserts

### Option:

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



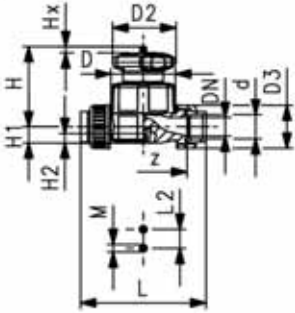
d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	kg
20	15	10	185	<b>167 546 482</b>	0.120
25	20	10	350	<b>167 546 483</b>	0.183
32	25	10	700	<b>167 546 484</b>	0.259
40	32	10	1000	<b>167 546 485</b>	0.452
50	40	10	1600	<b>167 546 486</b>	0.620
63	50	10	3100	<b>167 546 487</b>	1.200
75	65	10	5000	<b>167 546 488</b>	3.800
90	80	10	7000	<b>167 546 489</b>	5.500
110	100	10	11000	<b>167 546 490</b>	8.700



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	57	27	12	130	77	56	25	32	45	M6	1,9
25	58	67	30	12	143	97	65	25	39	58	M6	2,3
32	68	73	36	12	150	97	71	25	39	58	M6	3
40	84	90	44	15	171	128	85	45	54	74	M8	3,7
50	97	97	51	15	191	128	89	45	54	74	M8	4,6
63	124	116	64	15	220	152	101	45	66	87	M8	5,8
75	166	149	85	15	266	270	136	70	64	206	M8	8,2
90	200	161	105	15	264	270	141	70	64	206	M8	9,9
110	238	178	123	22	301	320	164	120	64	256	M12	12

# Diaphragm valves silicon free

## PROGEF Plus silicone free Diaphragm valve type 514 With fusion sockets metric



### Model:

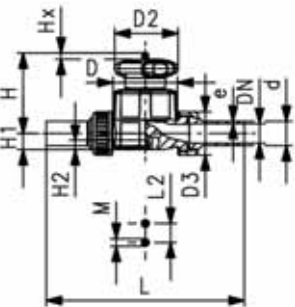
- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

### Option:

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

d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	15	10	125	<b>167 514 022</b>	<b>167 514 072</b>	0.371
25	20	10	271	<b>167 514 023</b>	<b>167 514 073</b>	0.499
32	25	10	481	<b>167 514 024</b>	<b>167 514 074</b>	1.101
40	32	10	759	<b>167 514 025</b>	<b>167 514 075</b>	1.297
50	40	10	1263	<b>167 514 026</b>	<b>167 514 076</b>	1.376
63	50	10	1728	<b>167 514 027</b>	<b>167 514 077</b>	3.058

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



## PROGEF Plus silicone free Diaphragm valve type 514 With butt fusion spigots SDR11 metric

### Model:

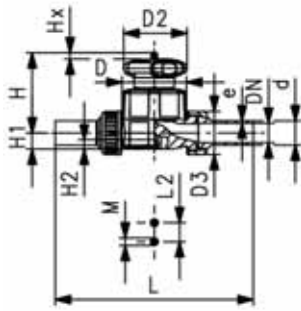
- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

### Option:

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

d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	15	10	125	<b>167 514 122</b>	<b>167 514 172</b>	0.274
25	20	10	271	<b>167 514 123</b>	<b>167 514 173</b>	0.404
32	25	10	481	<b>167 514 124</b>	<b>167 514 174</b>	0.652
40	32	10	759	<b>167 514 125</b>	<b>167 514 175</b>	0.853
50	40	10	1263	<b>167 514 126</b>	<b>167 514 176</b>	1.453
63	50	10	1728	<b>167 514 127</b>	<b>167 514 177</b>	3.072

table continued next page



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



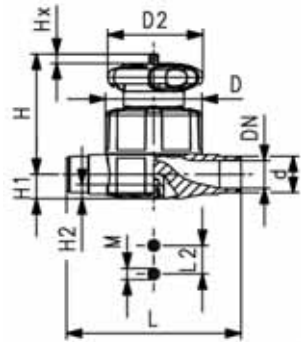
## PROGEF Plus silicone free Diaphragm valve type 515 With socket fusion spigots metric

### 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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	15	10	125	<b>167 515 022</b>	<b>167 515 072</b>	0.308
25	20	10	271	<b>167 515 023</b>	<b>167 515 073</b>	0.396
32	25	10	481	<b>167 515 024</b>	<b>167 515 074</b>	0.970
40	32	10	759	<b>167 515 025</b>	<b>167 515 075</b>	1.128
50	40	10	1263	<b>167 515 026</b>	<b>167 515 076</b>	2.087
63	50	10	1728	<b>167 515 027</b>	<b>167 515 077</b>	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	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



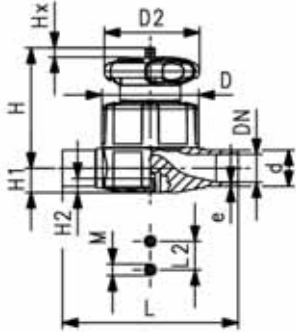
## PROGEF Plus silicone free Diaphragm valve type 515 With butt fusion spigots SDR11 metric

### 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



d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	15	10	125	<b>167 515 122</b>	<b>167 515 172</b>	0.307
25	20	10	271	<b>167 515 123</b>	<b>167 515 173</b>	0.392
32	25	10	481	<b>167 515 124</b>	<b>167 515 174</b>	0.968
40	32	10	759	<b>167 515 125</b>	<b>167 515 175</b>	0.655
50	40	10	1263	<b>167 515 126</b>	<b>167 515 176</b>	2.082
63	50	10	1728	<b>167 515 127</b>	<b>167 515 177</b>	2.629

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



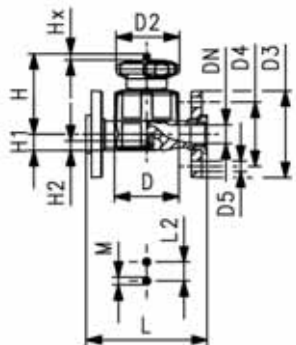
## PROGEF Plus silicone free Diaphragm valve type 517 With backing flanges PP-V metric/BS

### 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 PN 10
- Flat sealing faces/serrated

### Option:

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

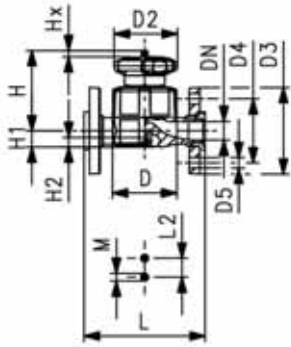


d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	15	10	125	<b>167 517 122</b>	<b>167 517 172</b>	0.412
25	20	10	271	<b>167 517 123</b>	<b>167 517 173</b>	0.640
32	25	10	481	<b>167 517 124</b>	<b>167 517 174</b>	1.316
40	32	10	759	<b>167 517 125</b>	<b>167 517 175</b>	1.660
50	40	10	1263	<b>167 517 126</b>	<b>167 517 176</b>	2.601
63	50	10	1728	<b>167 517 127</b>	<b>167 517 177</b>	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	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

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



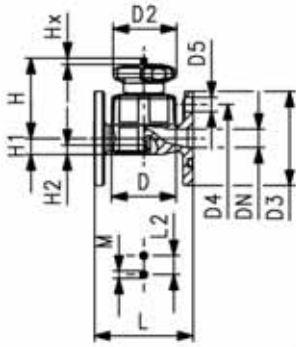
## PROGEF Plus oil free Diaphragm valve type 517 With fixed flanges PP-H JIS

### 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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
½	15	10	125	<b>167 517 922</b>	<b>167 517 972</b>	0.434
¾	20	10	271	<b>167 517 923</b>	<b>167 517 973</b>	0.514
1	25	10	481	<b>167 517 924</b>	<b>167 517 974</b>	1.168
1 ¼	32	10	759	<b>167 517 925</b>	<b>167 517 975</b>	1.462
1 ½	40	10	1263	<b>167 517 926</b>	<b>167 517 976</b>	2.449
2	50	10	1728	<b>167 517 927</b>	<b>167 517 977</b>	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]
½	65	65	95	70	15	110	25	73	14	12	M6	7
¾	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 ¼	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



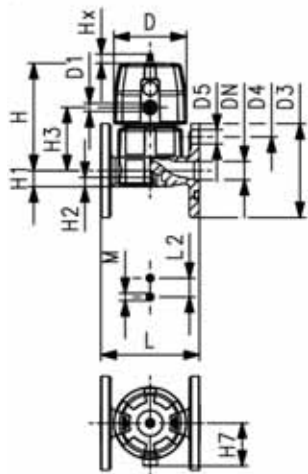
## PROGEF Plus oil free Diaphragm valve DIASTAR Six FC (Fail safe to close) With fixed flanges PP-H JIS

### 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)



Inch	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	kg
½	15	6	125	<b>167 617 922</b>	0.593
¾	20	6	271	<b>167 617 923</b>	1.023
1	25	6	481	<b>167 617 924</b>	1.263
1 ¼	32	6	759	<b>167 617 925</b>	2.082
1 ½	40	6	960	<b>167 617 926</b>	2.570
2	50	6	1181	<b>167 617 927</b>	3.432

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]
½	68	¾	95	70	15	110	25	101	14	12	60	43	M6	7
¾	96	¾	100	75	15	120	25	132	18	12	73	57	M6	10
1	96	¾	125	90	19	130	25	143	22	12	84	69	M6	13
1 ¼	120	¾	135	100	19	180	45	173	26	15	99	69	M8	14
1 ½	120	¾	140	105	19	180	45	193	32	15	119	69	M8	16
2	120	¾	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:

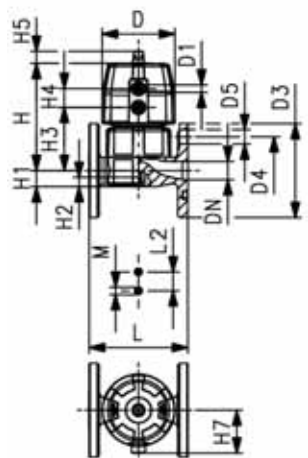
- Material: PP-H / oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Connecting dimension: JIS B2238/39 10K
- Flat sealing faces/serrated

### Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

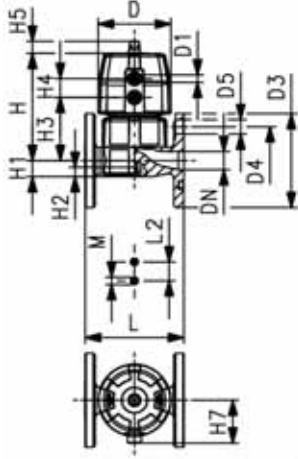
\* PN: PTFE

Working Pressure: **one side**



Inch	DN [mm]	PN* [bar]	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
½	15	10/10*	125	<b>167 627 922</b>	<b>167 627 972</b>	0.628
¾	20	10/10*	271	<b>167 627 923</b>	<b>167 627 973</b>	1.108
1	25	10/10*	481	<b>167 627 924</b>	<b>167 627 974</b>	1.354
1 ¼	32	10/10*	759	<b>167 627 925</b>	<b>167 627 975</b>	2.251
1 ½	40	10/10*	1263	<b>167 627 926</b>	<b>167 627 976</b>	3.737
2	50	10/6*	1728	<b>167 627 927</b>	<b>167 627 977</b>	4.380

table continued next page



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 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:**

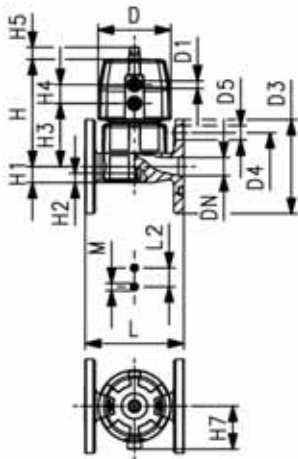
- Material: PP-H / oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

**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	<b>167 647 922</b>	<b>167 647 972</b>	0.578
3/4	20	10/10*	271	<b>167 647 923</b>	<b>167 647 973</b>	0.934
1	25	10/10*	481	<b>167 647 924</b>	<b>167 647 974</b>	1.174
1 1/4	32	10/10*	759	<b>167 647 925</b>	<b>167 647 975</b>	1.891
1 1/2	40	10/10*	1263	<b>167 647 926</b>	<b>167 647 976</b>	3.647
2	50	10/10*	1728	<b>167 647 927</b>	<b>167 647 977</b>	4.290

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	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 1/2	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 1/2	19
2	23



## PROGEF Plus oil free Diaphragm valve DIASTAR Ten DA (Double acting) With fixed flanges PP-H JIS

### Model:

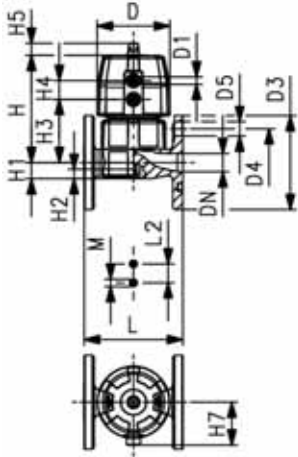
- Material: PP-H / oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

### 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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
1/2	15	10/10*	125	<b>167 657 922</b>	<b>167 657 972</b>	0.562
3/4	20	10/10*	271	<b>167 657 923</b>	<b>167 657 973</b>	0.898
1	25	10/10*	481	<b>167 657 924</b>	<b>167 657 974</b>	1.144
1 1/4	32	10/10*	759	<b>167 657 925</b>	<b>167 657 975</b>	1.831
1 1/2	40	10/10*	1263	<b>167 657 926</b>	<b>167 657 976</b>	2.897
2	50	10/10*	1728	<b>167 657 927</b>	<b>167 657 977</b>	3.540

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	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 1/2	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 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:

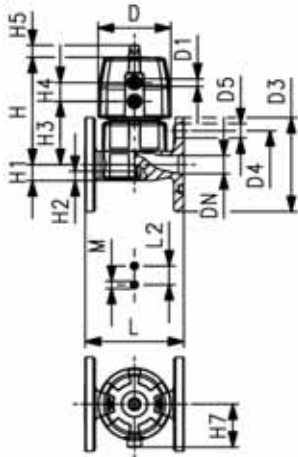
- Material: PP-H / oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Connecting dimension: JIS B2238/39 10K

### 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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
1/2	15	10/8*	125	<b>167 687 922</b>	<b>167 687 972</b>	1.028
3/4	20	10/8*	271	<b>167 687 923</b>	<b>167 687 973</b>	1.108
1	25	10/8*	481	<b>167 687 924</b>	<b>167 687 974</b>	1.948
1 1/4	32	10/8*	759	<b>167 687 925</b>	<b>167 687 975</b>	3.321
1 1/2	40	10/8*	1263	<b>167 687 926</b>	<b>167 687 976</b>	5.145
2	50	10/6*	1728	<b>167 687 927</b>	<b>167 687 977</b>	5.787

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	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 1/2	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 1/2	19
2	23



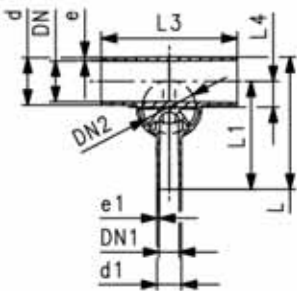
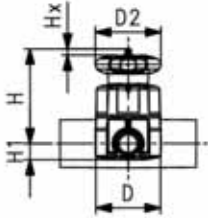
## PROGEF Plus silicone free Diaphragm valve type 519 With butt fusion spigots SDR11 metric

### 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 [mm]	DN [mm]	DN1 [mm]	DN2 [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	kg
20	20	20	15	15	15	10	57	<b>167 519 201</b>	<b>167 519 701</b>	0.321
25	20	25	20	15	20	10	89	<b>167 519 203</b>	<b>167 519 703</b>	0.397
25	25	25	20	20	20	10	118	<b>167 519 204</b>	<b>167 519 704</b>	0.399
32	20	25	25	15	20	10	80	<b>167 519 207</b>	<b>167 519 707</b>	0.424
32	25	25	25	20	20	10	105	<b>167 519 208</b>	<b>167 519 708</b>	0.426
32	32	32	25	25	25	10	231	<b>167 519 209</b>	<b>167 519 709</b>	0.980
40	20	32	32	15	25	10	85	<b>167 519 212</b>	<b>167 519 712</b>	1.008
50	20	25	40	15	20	10	86	<b>167 519 218</b>	<b>167 519 718</b>	0.485
50	25	32	40	20	25	10	160	<b>167 519 219</b>	<b>167 519 719</b>	1.054
50	32	32	40	25	25	10	206	<b>167 519 220</b>	<b>167 519 720</b>	1.056
63	20	25	50	15	20	10	84	<b>167 519 225</b>	<b>167 519 725</b>	0.524
63	25	32	50	20	25	10	150	<b>167 519 226</b>	<b>167 519 726</b>	1.097
63	32	32	50	25	25	10	184	<b>167 519 227</b>	<b>167 519 727</b>	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

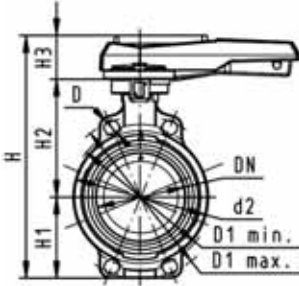
# Butterfly valves

## PROGEF Plus silicone free Butterfly valve type 567 Hand lever with ratchet settings

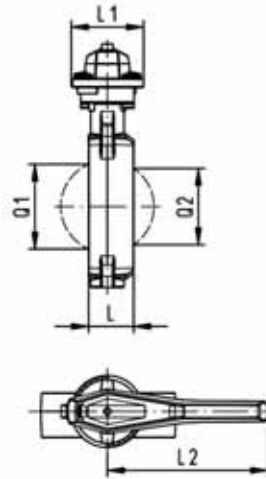


### Model:

- 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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg
63	50	2	10	1470	<b>167 567 402</b>	<b>167 567 422</b>	0.969
75	65	2 ½	10	2200	<b>167 567 403</b>	<b>167 567 423</b>	1.270
90	80	3	10	3000	<b>167 567 404</b>	<b>167 567 424</b>	1.191
110	100	4	10	6500	<b>167 567 405</b>	<b>167 567 425</b>	1.751
140	125	5	10	11500	<b>167 567 406</b>	<b>167 567 426</b>	2.199
160	150	6	10	16600	<b>167 567 407</b>	<b>167 567 427</b>	2.989
225	200	8	10	39600	<b>167 567 408</b>	<b>167 567 428</b>	4.706



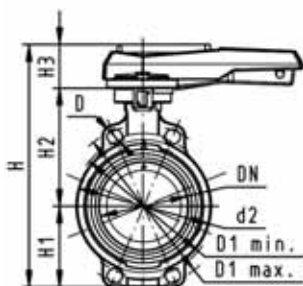
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	40	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	325	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



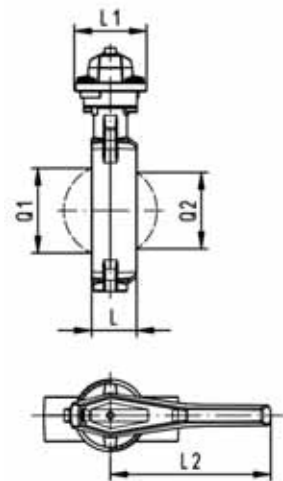
# PROGEF Plus oil free Butterfly valve type 567 Hand lever with ratchet settings

## 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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	kg
63	50	2	10	1470	<b>167 567 502</b>	0.965
75	65	2 ½	10	2200	<b>167 567 503</b>	1.056
90	80	3	10	3000	<b>167 567 504</b>	1.184
110	100	4	10	6500	<b>167 567 505</b>	1.737
140	125	5	10	11500	<b>167 567 506</b>	2.181
160	150	6	10	16600	<b>167 567 507</b>	2.966
225	200	8	10	39600	<b>167 567 508</b>	4.678



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

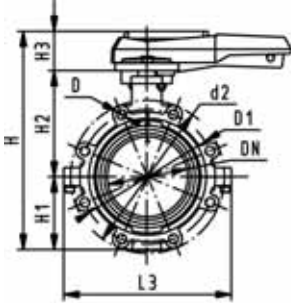




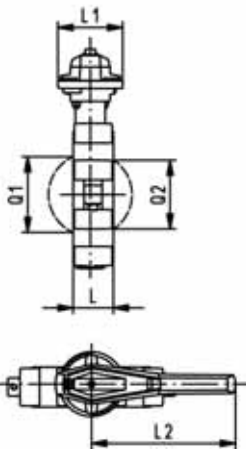
## PROGEF Plus silicone free Lugstyle butterfly valve type 568 Hand lever with ratchet settings

### 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



d [mm]	DN [mm]	Inch	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg
63	50	2	10	1470	<b>167 568 402</b>	<b>167 568 422</b>	3.055
75	65	2 ½	10	2200	<b>167 568 403</b>	<b>167 568 423</b>	3.397
90	80	3	10	3000	<b>167 568 404</b>	<b>167 568 424</b>	4.402
110	100	4	10	6500	<b>167 568 405</b>	<b>167 568 425</b>	5.835
140	125	5	10	11500	<b>167 568 406</b>	<b>167 568 426</b>	7.665
160	150	6	10	16600	<b>167 568 407</b>	<b>167 568 427</b>	9.449
225	200	8	10	39600	<b>167 568 408</b>	<b>167 568 428</b>	14.654



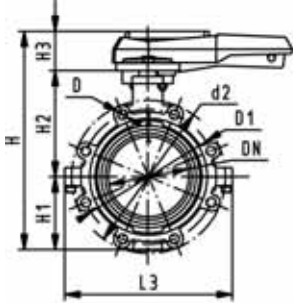
d [mm]	d2 [mm]	D	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	M16	125	265	77	134	54	45	106	205	150	40	
75	170	M16	145	277	83	140	54	46	106	205	160	54	35
90	184	M16	160	289	89	146	54	49	106	205	205	67	50
110	216	M16	180	326	104	167	55	56	106	255	244	88	74
140	246	M16	210	353	117	181	55	64	106	255	272	113	97
160	273	M20	240	374	130	189	55	72	106	255	297	139	123
225	334	M20	295	435	158	210	67	73	140	408	360	178	169



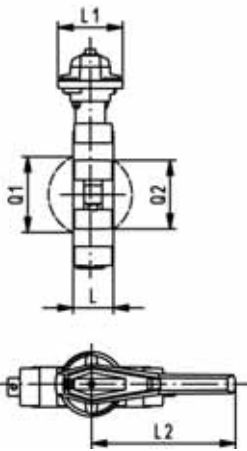
## PROGEF Plus silicone free Lugstyle butterfly valve 568 ANSI Hand lever with ratchet settings

### Model:

- 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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg
2	63	50	10	1470	<b>167 568 502</b>	<b>167 568 522</b>	3.055
2 ½	75	65	10	2200	<b>167 568 503</b>	<b>167 568 523</b>	3.397
3	90	80	10	3000	<b>167 568 504</b>	<b>167 568 524</b>	3.773
4	110	100	10	6500	<b>167 568 505</b>	<b>167 568 525</b>	5.835
5	140	125	10	11500	<b>167 568 506</b>	<b>167 568 526</b>	7.665
6	160	150	10	16600	<b>167 568 507</b>	<b>167 568 527</b>	9.449
8	225	200	10	39600	<b>167 568 508</b>	<b>167 568 528</b>	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

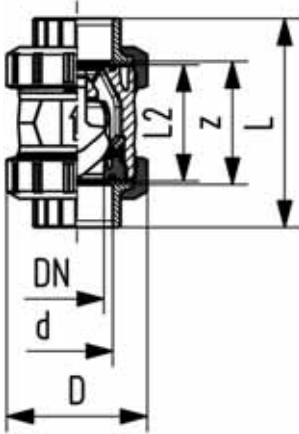
# Cone check valves

## 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



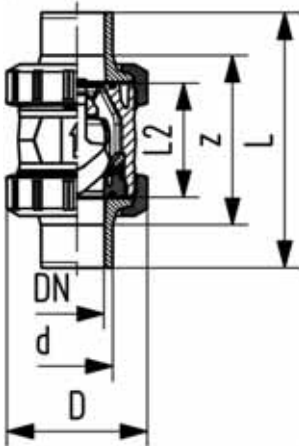
d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	z [mm]
16	10	10	190	167 561 201	167 561 211	0.080	50	93	56	67
20	15	10	180	167 561 202	167 561 212	0.080	50	95	56	66
25	20	10	380	167 561 203	167 561 213	0.180	58	109	65	77
32	25	10	460	167 561 204	167 561 214	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



### 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



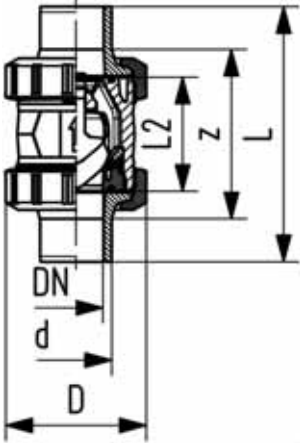
d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	L3 [mm]
16	10	10	190	167 561 221	167 561 231	0.080	50	110	56	
20	15	10	180	167 561 222	167 561 232	0.090	50	120	56	130
25	20	10	380	167 561 223	167 561 233	0.190	58	139	65	150
32	25	10	460	167 561 224	167 561 234	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



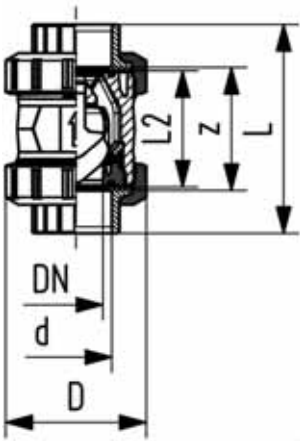
d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	e [mm]
20	15	10	180	167 561 242	167 561 252	0.080	50	130	56	1.9
25	20	10	380	167 561 243	167 561 253	0.180	58	143	65	2.3
32	25	10	460	167 561 244	167 561 254	0.190	68	150	71	3.0
40	32	10	850	167 561 245	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



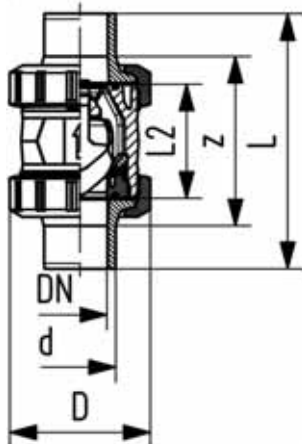
d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	z [mm]
16	10	10	190	167 562 201	167 562 211	0.080	50	93	56	67
20	15	10	180	167 562 202	167 562 212	0.080	50	95	56	66
25	20	10	380	167 562 203	167 562 213	0.180	58	109	65	77
32	25	10	460	167 562 204	167 562 214	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



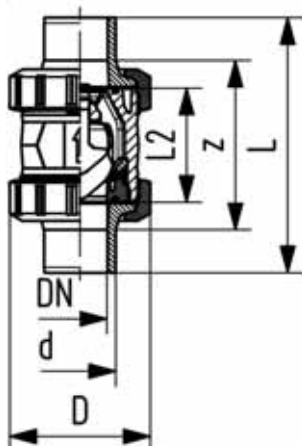
d [mm]	DN [mm]	PN	kv-value ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]
16	10	10	190	<b>167 562 221</b>	<b>167 562 231</b>	0.080	50	110	56
20	15	10	180	<b>167 562 222</b>	<b>167 562 232</b>	0.090	50	120	56
25	20	10	380	<b>167 562 223</b>	<b>167 562 233</b>	0.190	58	139	65
32	25	10	460	<b>167 562 224</b>	<b>167 562 234</b>	0.200	68	150	71
40	32	10	850	<b>167 562 225</b>	<b>167 562 235</b>	0.350	84	170	85
50	40	10	1080	<b>167 562 226</b>	<b>167 562 236</b>	0.510	97	190	89
63	50	10	1670	<b>167 562 227</b>	<b>167 562 237</b>	0.950	124	220	101
75	65	10	2950	<b>167 562 228</b>	<b>167 562 238</b>	2.370	166	280	136
90	80	10	3600	<b>167 562 229</b>	<b>167 562 239</b>	3.750	200	296	141
110	100	10	4150	<b>167 562 230</b>	<b>167 562 240</b>	5.980	238	336	164

## PROGEF Plus silicone free Check valve type 562 With butt fusion spigots IR-Plus SDR11 metric

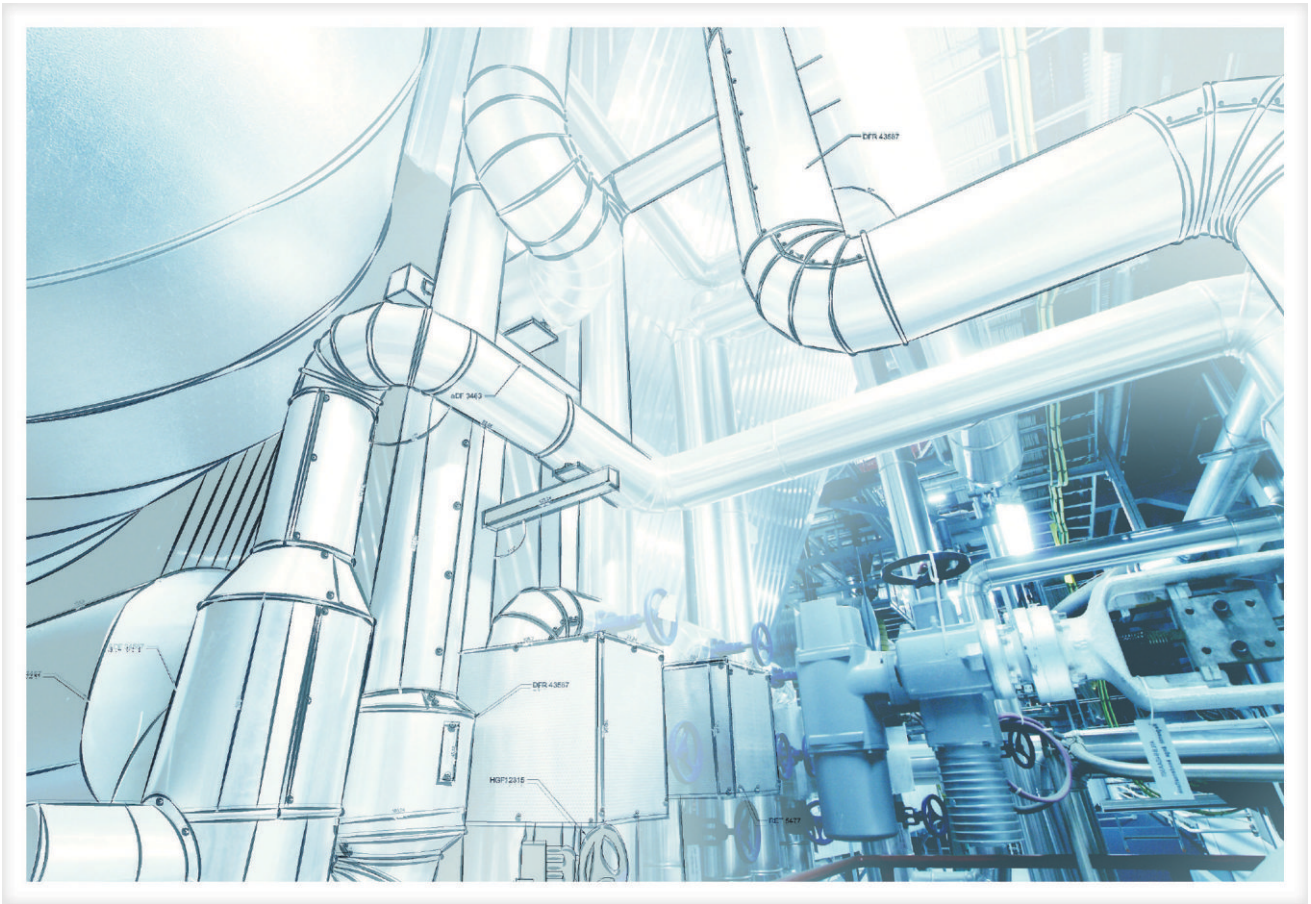


### Model:

- 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 ( $\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	e [mm]
20	15	10	180	<b>167 562 242</b>	<b>167 562 252</b>	0.080	50	130	56	1.9
25	20	10	380	<b>167 562 243</b>	<b>167 562 253</b>	0.180	58	143	65	2.3
32	25	10	460	<b>167 562 244</b>	<b>167 562 254</b>	0.190	68	150	71	3.0
40	32	10	850	<b>167 562 245</b>	<b>167 562 255</b>	0.340	84	171	85	3.7
50	40	10	1080	<b>167 562 246</b>	<b>167 562 256</b>	0.490	97	191	89	4.6
63	50	10	1670	<b>167 562 247</b>	<b>167 562 257</b>	0.930	124	220	101	5.8
75	65	10	2950	<b>167 562 248</b>	<b>167 562 258</b>	2.360	166	266	136	8.2
90	80	10	3600	<b>167 562 249</b>	<b>167 562 259</b>	3.680	200	264	141	9.9
110	100	10	4150	<b>167 562 250</b>	<b>167 562 260</b>	5.830	238	301	164	12.0

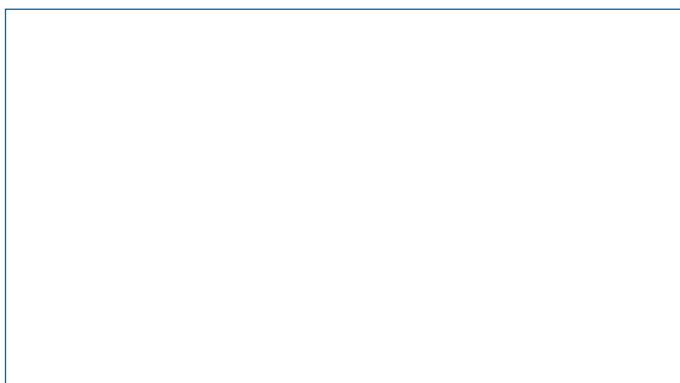


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