

Section 1

PROGEF[®] Standard PP Piping System



PROGEF Standard – System Specification

Material	Beta PP-H 100 (Beta Polypropylene Homopolymer) d 16 - d 225	State-of-the-art PP (Polypropylene) d 250 - d 500
Color	RAL 7032 pebble grey	RAL 7032 pebble grey
Density	~0.90 g/cm ³ (ISO 1183 / ASTM D 792)	~0.90 g/cm ³ (ISO 1183 / ASTM D 792)
Surface tension	31 mJ/m ²	24 mJ/m ²
Linear expansion coefficient	0.16-0.18 mm/mK (DIN 53752)	0.16-0.18 mm/mK (DIN 53752)
E-modulus	1300 N/mm ² (ISO 527 / ASTM D 790)	900 N/mm ² (ISO 527 / ASTM D 790)
Thermal conductivity	0.23 W/mK (EN 12664)	0.23 W/mK (EN 12664)
Surface resistivity	> 10 ¹⁶ Ω (IEC 60093)	> 10 ¹⁶ Ω (IEC 60093)
Dimension	d 16 – d 500 in accordance to EN ISO 15494	
Pressure Rating	Pipes/Fittings/Diaphragm and ball valves: d 16 – d 225 SDR11, PN10 (150 PSI), c = 2.0 d 50 – d 225 SDR17.6, PN6 (90 PSI), c = 2.0 Butterfly valves: d 63 – d 315, PN10 (150 PSI)	Pipes/Fittings: d 250 – d 500 SDR11, PN10 (150 PSI), c = 2.0 d 250 – d 500 SDR17.6, PN6 (90 PSI), c = 2.0
Temperature Rating	From 0 °C to 80 °C (32 °F – 176 °F)	
Production	Fittings: injection molded or segment welded Pipes: extruded Valves: injection molded	
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 (EN ISO 15494)	Visual inspection Surface finish Dimension tolerance Pressure testing Full product range passed the Initial Type Test (ITT)	
Material- and Product Approvals / Conformance⁽¹⁾	FDA CFR 21 177.1520 NSF 61 NSF/ANSI 372 (G) USP 25 class VI (physiological non-toxic) DIBt (Z-40.23-4, Z-40.23-264, Z – 40.23-265) DNV (K-2630, K – 2636) Lloyd's Register (01/ 20030(E1))	
Welding Technology	Socket fusion (DVS 2207 - 11): d 16 - d 110 IR Plus, infrared fusion (DVS 2207 - 6): d 20 - d 225 Butt fusion (DVS 2207-11): d 20 - d 500	
Documentation⁽²⁾	EN 10204 2.2 / EN 10204 3.1	
Packing	Pipes and fittings bulk bagged; quantities vary	
Labeling	Brand Name Product Description Code Number Material Dimension CE-labeling ⁽³⁾ Approvals	
Main Applications	Highly resistant to impact, abrasion and many chemicals make it ideal for slurries transportation in the semiconductor industry. Suitable for cost-effective distribution of DI-water and RO-water, as well as for industrial applications in chemical production, chemical distribution, plating, power stations, and cooling.	

⁽¹⁾ For thermoplastic material only

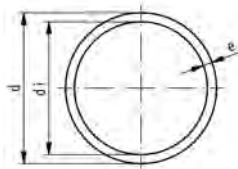
⁽²⁾ On request

⁽³⁾ From 2008 on

	Pipe	62
	IR Plus®/Butt Fusion Fittings	63
	Socket Fusion Fittings	89
	Electrofusion Fittings	97
	Manual Valves	98

Pipe

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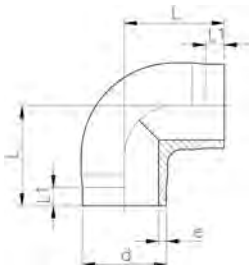
Pipe, PN 10, Standard PP

Sizes 20-63 have multiple lengths of pipe per bag (20mm-6, 25mm-6, 32mm-8, 40mm-5, 50mm-3, 63mm-2) and are sold per bag. Sizes 75-225 pipe lengths are bagged individually. Sizes 250 and above are capped and individually bagged per pipe length.

d (mm)	Part No.	weight (kg/m)	lbs/meter	e (mm)	closest inch (inch)
16	* 167 480 710	0.080	0.176	1.8	$\frac{3}{8}$
20	* 167 480 711	0.107	0.236	1.9	$\frac{1}{2}$
25	* 167 480 712	0.164	0.362	2.3	$\frac{3}{4}$
32	* 167 480 713	0.261	0.575	2.9	1
40	* 167 480 714	0.412	0.908	3.7	1 $\frac{1}{4}$
50	* 167 480 715	0.638	1.407	4.6	1 $\frac{1}{2}$
63	* 167 480 716	1.010	2.227	5.8	2
75	* 167 480 717	1.410	3.108	6.8	2 $\frac{1}{2}$
90	* 167 480 718	2.030	4.475	8.2	3
110	* 167 480 719	3.010	6.636	10.0	4
160	* 167 480 722	6.380	14.065	14.6	6
200	* 167 481 724	9.950	21.936	18.2	8
225	* 167 481 725	12.600	27.778	20.5	9
250	* 167 481 726	15.500	34.171	22.7	10
315	* 167 481 728	24.600	54.233	28.6	12
355	* 167 481 730	31.200	68.784	32.2	14
400	* 167 481 731	39.600	87.302	36.3	16
450	* 167 480 731	50.200	110.671	40.9	18
500	* 167 480 732	63.300	139.551	45.4	20

IR Plus®/Butt Fusion Fittings

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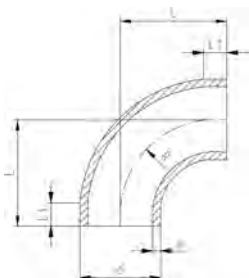
90° Elbow Short Radius, PN 10, Standard PP

Model:

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

d (mm)	FM	Part No.	weight (kg)	L (mm)	L1 (mm)	e (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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90° Elbow Sweep Radius, PN 10, Standard PP

Model:

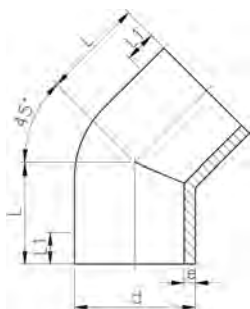
- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

* Material: PP-R

d (mm)	FM	Part No.	'ISD weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
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
160	IR	727 018 617	1.699	160	33	151	14.6
200	IR	727 018 619	3.264	200	33	190	18.2
225	IR	* 727 018 620	4.535	220	33	210	20.5
250		* 727 018 521	6.351	256	48	232	22.7
315		* 727 018 523	12.959	321	48	297	28.6
* 355		727 018 524	16.400	345	70	330	32.2
* 400		727 018 525	22.220	365	70	350	36.3
* 450		727 018 526	32.560	425	70	400	40.9
* 500		727 018 527	44.840	470	90	445	45.4

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45° Elbow, PN 10, Standard PP



d (mm)	FM	Part No.	L (mm)	L1 (mm)	e (mm)
20	IR	727 158 506	32	24.0	1.9
25	IR	727 158 507	34	25.0	2.3
32	IR	727 158 508	36	25.0	2.9
40	IR	^ 727 158 509	39	25.0	3.7
50	IR	727 158 510	42	26.0	4.6
63	IR	727 158 511	47	29.0	5.8
75	IR	^ 727 158 512	49	29.0	6.8
90	IR	727 158 513	57	34.0	8.2
110	IR	727 158 514	70	43.0	10.0
160	IR	^ 727 158 517	100	60.0	14.6
200	IR	727 158 519	124	75.0	18.2
225	IR	* 727 158 520	140	85.0	20.5
250		* 727 158 521	225	133.0	22.7
315		* 727 158 523	255	154.0	28.6

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45° Elbow, PN 10, Standard PP



d (mm)	Part No.	L (mm)	L1 (mm)	e (mm)	R (mm)
355	* 727 158 524	520	300	32.2	532.5
400	* 727 158 525	548	300	36.3	600.0
450	* 727 158 526	580	300	40.9	675.0
500	* 727 158 527	665	350	45.4	750.0

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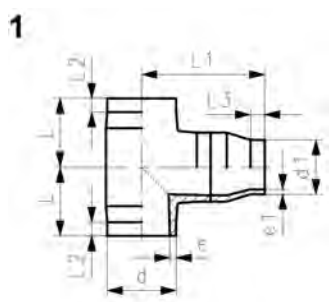
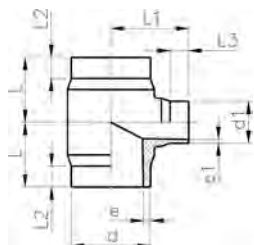
Tee, PN 10, Standard PP



d (mm)	FM	Part No.	weight (kg)	L (mm)	L1 (mm)	e (mm)
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	23	3.7
50	IR	727 208 510	0.105	58	22	4.6
63	IR	727 208 511	0.186	66	20	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
160	IR	^ 727 208 517	2.844	160	28	14.6
200	IR	727 208 519	5.579	200	35	18.2
225	IR	* 727 208 520	7.812	220	35	20.5
250	--	727 208 521	10.400	227	68	22.7
315	--	727 208 523	20.330	283	86	28.6
355	--	* 727 208 524	31.100	345	105	32.2
400	--	* 727 208 525	40.900	365	105	36.3
450	--	* 727 208 526	60.300	425	135	40.9
500	--	* 727 208 527	81.900	470	155	45.4

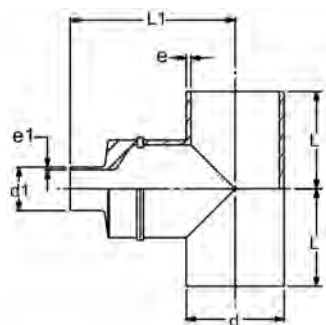
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Molded Reducing Tee, PN 10, Standard PP



d (mm)	d1 (mm)	FM	Part No.	weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
63	32	IR	^ 727 208 351	0.161	65	70	25	25	5.8	2.9
63	40	IR	^ 727 208 350	0.165	65	70	25	25	5.8	3.7
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
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
200	160	IR	727 208 385	6.632	200	295	35	40	18.2	14.6
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	^ 727 208 391	4.685	155	165	40	30	20.5	14.6
250	160		727 208 093	12.500	227	387	68	53	22.7	14.6

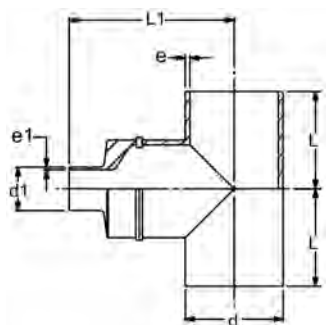
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Fabricated Reducing Tee (25-110mm), PN 10, Standard PP

d (mm)	d1 (mm)	FM	Part No.	e (mm)	e1 (mm)	L (mm)	L1 (mm)
25	20	IR	* 727 992 450	2.30	1.90	42	87
32	20	IR	* 727 992 451	3.00	1.90	46	91
32	25	IR	* 727 992 452	3.00	2.30	46	91
40	20	IR	* 727 992 453	3.70	1.90	51	98
40	25	IR	* 727 992 454	3.70	2.30	51	99
40	32	IR	* 727 992 455	3.70	3.00	51	99
50	20	IR	* 727 992 456	4.60	1.90	58	105
50	25	IR	* 727 992 457	4.60	2.30	58	106
50	32	IR	* 727 992 458	4.60	3.00	58	106
50	40	IR	* 727 992 459	4.60	3.70	58	108
63	20	IR	* 727 992 460	5.80	1.90	66	113
63	25	IR	* 727 992 461	5.80	2.30	66	113
63	32	IR	* 727 992 462	5.80	3.00	66	113
63	40	IR	* 727 992 463	5.80	3.70	66	115
63	50	IR	* 727 992 464	5.80	4.60	66	115
75	20	IR	* 727 992 465	6.90	1.90	75	128
75	25	IR	* 727 992 466	6.90	2.30	75	129
75	32	IR	* 727 992 467	6.90	3.00	75	130
75	40	IR	* 727 992 468	6.90	3.70	75	131
75	50	IR	* 727 992 469	6.90	4.60	75	132
75	63	IR	* 727 992 470	6.90	5.80	75	135
90	20	IR	* 727 992 471	8.20	1.90	90	148
90	25	IR	* 727 992 472	8.20	2.30	90	149
90	32	IR	* 727 992 473	8.20	3.00	90	150
90	40	IR	* 727 992 474	8.20	3.70	90	151
90	50	IR	* 727 992 475	8.20	4.60	90	152
90	63	IR	* 727 992 476	8.20	5.80	90	155
90	75	IR	* 727 992 477	8.20	6.90	90	149
110	20	IR	* 727 992 478	10.00	1.90	110	178
110	25	IR	* 727 992 479	10.00	2.30	110	179
110	32	IR	* 727 992 480	10.00	3.00	110	180
110	40	IR	* 727 992 481	10.00	3.70	110	181
110	50	IR	* 727 992 482	10.00	4.60	110	182
110	63	IR	* 727 992 483	10.00	5.80	110	185
110	75	IR	* 727 992 484	10.00	6.90	110	179
110	90	IR	* 727 992 485	10.00	8.20	110	179

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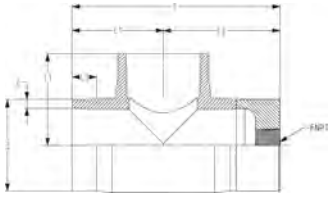


Fabricated Reducing Tee (160-500mm), PN 10, Standard PP

The L1 dimensions on sizes 250 mm and above are a maximum value; this dimension can be up to 44 mm less. Various fittings from 250mm and up with extreme reductions cannot be performed on all machines. If unsure please contact GF representative.

d (mm)	d1 (mm)	Part No.	PN	e (mm)	e1 (mm)	L (mm)	L1 (mm)
160	63	* 727 992 486		14.60	5.80	160	250
160	75	* 727 992 487		14.60	6.90	160	244
160	90	* 727 992 488		14.60	8.20	160	244
160	110	* 727 992 489		14.60	10.00	160	243
200	63	* 727 992 490		18.20	5.80	200	310
200	75	* 727 992 491		18.20	6.90	200	304
200	90	* 727 992 492		18.20	8.20	200	304
200	110	* 727 992 493		18.20	10.00	200	303
200	160	* 727 992 494		18.20	14.60	200	311
225	63	* 727 992 495		20.50	5.80	220	340
225	75	* 727 992 496		20.50	6.90	220	334
225	90	* 727 992 497		20.50	8.20	220	334
225	110	* 727 992 498		20.50	10.00	220	333
225	160	* 727 992 499		20.50	14.60	220	341
225	200	* 727 992 500		20.50	18.20	220	339
250	63	* 727 992 501		22.80	5.80	276	389
250	75	* 727 992 502		22.80	6.90	276	385
250	90	* 727 992 503		22.80	8.20	276	386
250	110	* 727 992 504		22.80	10.00	276	388
250	160	* 727 992 505		22.80	14.60	276	388
250	200	* 727 992 506		22.80	18.20	276	388
250	225	* 727 992 507		22.80	20.50	276	388
315	63	* 727 992 508		28.70	5.80	353	501
315	75	* 727 992 509		28.70	6.90	353	497
315	90	* 727 992 510		28.70	8.20	353	498
315	110	* 727 992 511		28.70	10.00	353	495
315	160	* 727 992 512		28.70	14.60	353	497
315	200	* 727 992 513		28.70	18.20	353	498
315	225	* 727 992 514		28.70	20.50	353	500
315	250	* 727 992 515		28.70	22.80	353	504
355	225	* 727 992 516		32.20	20.50	345	489
355	250	* 727 992 517		32.20	22.70	345	489
355	315	* 727 992 518		32.20	28.60	345	509
400	225	* 727 992 519		36.30	20.50	360	524
400	250	* 727 992 520		36.30	22.70	360	524
400	315	* 727 992 521		36.30	28.60	360	524
400	355	* 727 992 522		36.30	32.20	360	524
450	225	* 727 992 523		40.90	20.50	419	593
450	250	* 727 992 524		40.90	22.70	419	593
450	315	* 727 992 525		40.90	28.60	419	593
450	355	* 727 992 526		40.90	32.20	419	593
450	400	* 727 992 527		40.90	36.30	419	593
500	225	* 727 992 528		45.40	20.50	465	627
500	250	* 727 992 529		45.40	22.70	465	627
500	315	* 727 992 530		45.40	28.60	465	627
500	355	* 727 992 531		45.40	32.20	465	627
500	400	* 727 992 532		45.40	36.30	465	627
500	450	* 727 992 533		45.40	40.90	465	627

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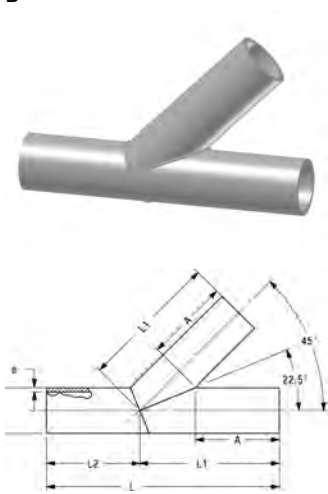
Analytical Threaded Sensor, PN 10, Standard PP

IR Plus/Butt Fusion

d	FNPT	FM	Part No.	e	L	L1	L2	L3
(mm)	(inch)			(mm)	(mm)	(mm)	(mm)	(mm)
50	1/4	IR	*727 991 840	4.6	135	58	77	22
50	1/2	IR	*727 991 841	4.6	135	58	77	22
50	3/4	IR	*727 991 842	4.6	135	58	77	22
50	1	IR	*727 991 843	4.6	135	58	77	22
63	1/4	IR	*727 991 844	5.8	148	66	82	20
63	1/2	IR	*727 991 845	5.8	148	66	82	20
63	3/4	IR	*727 991 846	5.8	148	66	82	20
63	1	IR	*727 991 847	5.8	148	66	82	20
75	1/4	IR	*727 991 848	6.8	171	75	96	20
75	1/2	IR	*727 991 849	6.8	171	75	96	20
75	3/4	IR	*727 991 850	6.8	171	75	96	20
75	1	IR	*727 991 851	6.8	171	75	96	20
90	1/4	IR	*727 991 852	8.2	208	90	118	20
90	1/2	IR	*727 991 853	8.2	208	90	118	20
90	3/4	IR	*727 991 854	8.2	208	90	118	20
90	1	IR	*727 991 855	8.2	208	90	118	20
110	1/4	IR	*727 991 856	10.0	244	110	134	20
110	1/2	IR	*727 991 857	10.0	244	110	134	20
110	3/4	IR	*727 991 858	10.0	244	110	134	20
110	1	IR	*727 991 859	10.0	244	110	134	20

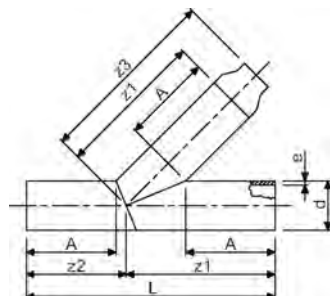
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45° Wye, Standard PP, PN 10



Size	Part No.	USD	e	L	L1	L2	A
(inch)			(mm)	(mm)	(mm)	(mm)	(mm)
25	*157 345 350		2.3	225	125	100	95
50	*157 345 050		4.6	371	210	161	150
63	*157 345 063		5.8	389	226	163	150
75	*157 345 075		6.9	406	241	165	150
90	*157 345 090		8.2	527	309	218	200
110	*157 345 110		10.0	555	333	222	200
160	*157 345 160		14.6	626	393	233	200
200	*157 345 200		18.2	783	491	292	250
225	*157 345 225		20.5	818	522	296	250
250	*157 345 250		22.8	954	602	352	300
315	*157 345 315		28.7	1146	730	416	350

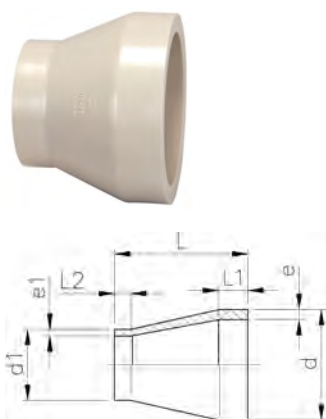
45° Reducing Wye, Standard PP, PN 10



d - d1 (mm)		Part No.	e1 (mm)	e2 (mm)	z1 (inch)	z3 (inch)	z2 (inch)	A (inch)
*	63 - 50	* 157 445 100	5.8	4.6	8.90	11.06	6.42	5.91
*	75 - 50	* 157 445 105	6.9	4.6	9.47	11.63	6.52	5.91
*	75 - 63	* 157 445 106	6.9	5.8	9.47	11.63	6.52	5.91
*	90 - 63	* 157 445 112	8.2	5.8	12.15	14.71	8.61	7.87
*	90 - 75	* 157 445 113	8.2	6.9	12.15	14.71	8.61	7.87
*	110 - 75	* 157 445 120	10.0	6.9	13.10	16.25	8.77	7.87
*	110 - 90	* 157 445 121	10.0	8.2	13.07	16.44	8.77	7.87
*	160 - 90	* 157 445 122	14.6	8.2	15.48	23.27	9.18	7.87
*	160 - 110	* 157 445 148	14.6	10.0	15.48	19.80	9.18	7.87
*	200 - 160	* 157 445 160	18.2	14.6	19.35	24.65	11.47	9.84
*	225 - 110	* 157 445 169	20.5	10.0	20.54	26.44	11.68	9.84
*	225 - 160	* 157 445 170	20.5	14.6	20.54	26.44	11.68	9.84
*	225 - 200	* 157 445 171	20.5	18.2	20.54	26.44	11.68	9.84
*	250 - 160	* 157 445 181	22.8	14.6	23.69	30.98	13.85	11.81
*	250 - 225	* 157 445 183	22.8	20.5	23.69	30.47	13.85	11.81
*	315 - 225	* 157 445 208	28.7	20.5	28.75	33.48	16.35	13.78
*	315 - 250	* 157 445 209	28.7	22.8	28.75	32.27	16.35	13.78

A

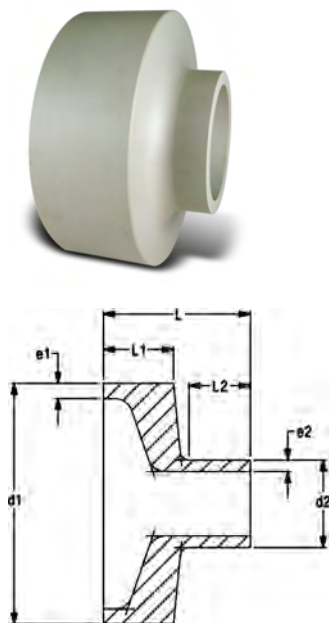
Reducer, PN 10, Standard PP



d (mm)	d1 (mm)	FM	Part No.	weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (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	727 908 554	0.024	60	20	20	4.6	2.3
50	32	IR	727 908 553	0.027	60	20	20	4.6	2.9
50	40	IR	^ 727 908 552	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	727 908 566	0.062	68	20	20	6.8	3.7
75	50	IR	727 908 565	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	63	IR	727 908 572	0.201	90	28	28	10.6	6.2
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
160	110	IR	727 908 590	0.586	120	39	27	14.6	10.0
200	160	IR	727 908 592	1.149	145	50	40	18.2	14.6
225	110	IR	727 908 595	1.485	160	55	35	20.5	10.0
225	160	IR	727 908 596	1.590	160	55	40	20.5	14.6
225	180	IR	727 908 162	1.770	163	60	58	20.5	16.4
225	200	IR	727 908 597	1.723	160	55	50	20.5	18.2
250	160		727 908 165	2.140	170	63	53	22.7	14.6
250	225		727 908 168	2.750	180	65	65	22.7	20.5
315	225		727 908 176	5.110	237	84	60	28.6	20.5
315	250		727 908 177	5.105	231	86	63	28.6	22.7
355	250		^ 727 908 963	5.490	245	90	60	32.3	22.7
355	315		^ 727 908 961	3.700	245	90	80	32.2	28.6
400	315		^ 727 908 966	5.300	260	95	80	36.3	28.6
400	355		^ 727 908 965	4.800	260	95	90	36.3	32.2
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

Concentric Flush Style Reducer (40-110mm), PN 10, Standard PP

IR Plus/Butt Fusion



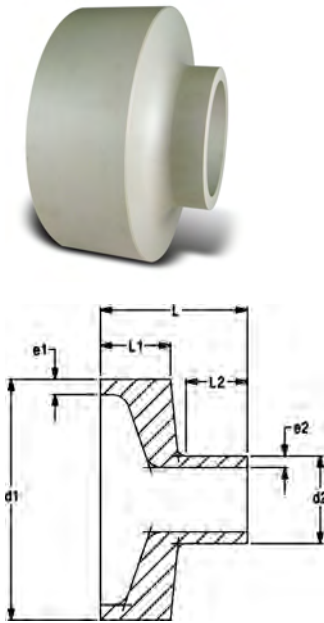
d1 (mm)	d2 (mm)	FM	Part No.	e1 (mm)	e2 (mm)	L (mm)	L1 (mm)	L2 (mm)
40	20	IR	* 727 909 604	3.7	1.9	52	24	25
40	25	IR	* 727 909 605	3.7	2.3	53	23	26
40	32	IR	* 727 909 606	3.7	3.0	53	22	26
50	20	IR	* 727 909 607	4.6	1.9	52	24	25
50	25	IR	* 727 909 608	4.6	2.3	53	23	26
50	32	IR	* 727 909 609	4.6	3.0	53	22	26
50	40	IR	* 727 909 610	4.6	3.7	55	21	28
63	20	IR	* 727 909 611	5.8	1.9	52	24	25
63	25	IR	* 727 909 612	5.8	2.3	52	23	26
63	32	IR	* 727 909 613	5.8	3.0	52	22	26
63	40	IR	* 727 909 614	5.8	3.7	54	20	28
63	50	IR	* 727 909 615	5.8	4.6	54	19	28
75	20	IR	* 727 909 616	6.9	1.9	58	27	25
75	25	IR	* 727 909 617	6.9	2.3	59	27	26
75	32	IR	* 727 909 618	6.9	3.0	60	27	26
75	40	IR	* 727 909 619	6.9	3.7	61	27	28
75	50	IR	* 727 909 620	6.9	4.6	62	27	28
75	63	IR	* 727 909 621	6.9	5.8	65	28	28
90	20	IR	* 727 909 622	8.2	1.9	63	32	25
90	25	IR	* 727 909 623	8.2	2.3	64	32	26
90	32	IR	* 727 909 624	8.2	3.0	65	32	26
90	40	IR	* 727 909 625	8.2	3.7	66	32	28
90	50	IR	* 727 909 626	8.2	4.6	67	32	28
90	63	IR	* 727 909 627	8.2	5.8	70	33	28
90	75	IR	* 727 909 628	8.2	6.9	64	31	23
110	20	IR	* 727 909 629	10.0	1.9	73	42	25
110	25	IR	* 727 909 630	10.0	2.3	74	42	26
110	32	IR	* 727 909 631	10.0	3.0	75	42	26
110	40	IR	* 727 909 632	10.0	3.7	76	42	28
110	50	IR	* 727 909 633	10.0	4.6	77	42	28
110	63	IR	* 727 909 634	10.0	5.8	80	43	28
110	75	IR	* 727 909 635	10.0	6.9	74	41	23
110	90	IR	* 727 909 636	10.0	8.2	74	39	23

B

Concentric Flush Style Reducer (160-315mm), PN 10, Standard PP

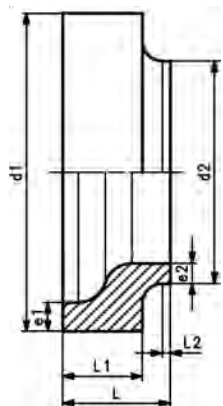
IR Plus/Butt Fusion

Welds on some fittings with extreme reductions cannot be performed on all machines. If unsure please contact GF representative.



d1 (mm)	d2 (mm)	Part No.	e1 (mm)	e2 (mm)	L (mm)	L1 (mm)	L2 (mm)
160	63	* 727 909 656	15	6	95	58	28
160	75	* 727 909 657	15	7	89	56	23
160	90	* 727 909 658	15	8	89	54	23
160	110	* 727 909 659	15	10	88	50	23
200	75	* 727 909 663	18	7	109	76	23
200	90	* 727 909 664	18	8	109	74	23
200	110	* 727 909 665	18	10	108	70	23
200	160	* 727 909 668	18	15	116	61	33
225	63	* 727 909 669	21	6	125	88	28
225	75	* 727 909 670	21	7	119	86	23
225	90	* 727 909 671	21	8	119	84	23
225	110	* 727 909 672	21	10	118	80	23
225	160	* 727 909 675	21	15	126	71	33
225	200	* 727 909 676	21	18	124	64	33
250	63	* 727 909 677	23	6	119	85	28
250	75	* 727 909 678	23	7	115	80	23
250	90	* 727 909 679	23	8	116	80	23
250	110	* 727 909 680	23	10	118	80	28
250	160	* 727 909 683	23	15	118	70	38
250	200	* 727 909 684	23	18	118	67	38
250	225	* 727 909 685	23	21	118	64	38
315	63	* 727 909 696	29	6	154	100	28
315	75	* 727 909 697	29	7	150	100	23
315	90	* 727 909 698	29	8	151	100	23
315	110	* 727 909 699	29	10	148	100	23
315	160	* 727 909 702	29	15	148	100	23
315	200	* 727 909 703	29	18	151	100	33
315	225	* 727 909 704	29	21	153	99	33
315	250	* 727 909 705	29	23	157	86	48

A



Concentric Flush Style Reducer (355-500mm), PN 10, Standard PP

Model:

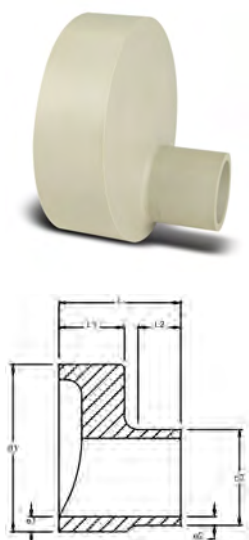
- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on the welding machine must always be done on the larger diameter (d1)
- The butt fusion machine must be suitable to weld both d1 and d2 dimensions

d1 (mm)	d2 (mm)	Part No.	weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
355	225	* 727 909 809	4.983	130	95	10	32.2	20.5
355	250	* 727 909 810	3.574	115	80	10	32.2	22.7
355	315	* 727 909 812	3.952	115	80	15	32.2	28.6
400	225	* 727 909 816	7.587	145	110	10	36.3	20.5
400	250	* 727 909 817	6.955	140	105	10	36.3	22.7
400	315	* 727 909 819	6.149	135	100	10	36.3	28.6
400	355	* 727 909 820	5.811	135	100	13	36.3	32.2
450	225	* 727 909 822	11.398	165	125	10	40.9	20.5
450	250	* 727 909 823	10.561	160	120	10	40.9	22.7
450	315	* 727 909 825	8.660	150	110	15	40.9	28.6
450	355	* 727 909 826	8.246	150	110	15	40.9	32.2
450	400	* 727 909 827	7.973	150	110	15	40.9	36.3
500	225	* 727 909 829	15.293	180	130	10	45.4	20.5
500	250	* 727 909 830	15.037	180	130	10	45.4	22.7
500	315	* 727 909 832	10.404	165	115	10	45.4	28.6
500	355	* 727 909 833	10.785	165	115	10	45.4	32.2
500	400	* 727 909 834	11.863	165	115	10	45.4	36.3
500	450	* 727 909 835	12.042	165	115	25	45.4	40.9

B

Eccentric Flush Style Reducer (40-110mm), PN 10, Standard PP

IR Plus/Butt Fusion

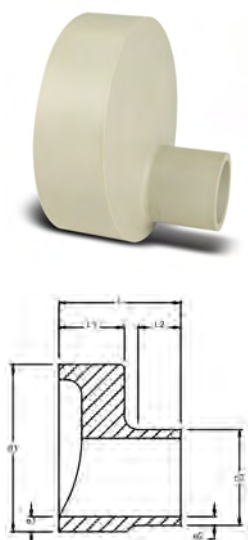


d1 (mm)	d2 (mm)	FM	Part No.	e1 (mm)	e2 (mm)	L (mm)	L1 (mm)	L2 (mm)
40	20	IR	* 157 909 604	3.7	1.9	52	24	25
40	25	IR	* 157 909 605	3.7	2.3	53	23	26
40	32	IR	* 157 909 606	3.7	3.0	53	22	26
50	20	IR	* 157 909 607	4.6	1.9	52	24	25
50	25	IR	* 157 909 608	4.6	2.3	53	23	26
50	32	IR	* 157 909 609	4.6	3.0	53	22	26
50	40	IR	* 157 909 610	4.6	3.7	55	21	28
63	20	IR	* 157 909 611	5.8	1.9	52	24	25
63	25	IR	* 157 909 612	5.8	2.3	52	23	26
63	32	IR	* 157 909 613	5.8	3.0	52	22	26
63	40	IR	* 157 909 614	5.8	3.7	54	20	28
63	50	IR	* 157 909 615	5.8	4.6	54	19	28
75	20	IR	* 157 909 616	6.9	1.9	58	27	25
75	25	IR	* 157 909 617	6.9	2.3	59	27	26
75	32	IR	* 157 909 618	6.9	3.0	60	27	26
75	40	IR	* 157 909 619	6.9	3.7	61	27	28
75	50	IR	* 157 909 620	6.9	4.6	62	27	28
75	63	IR	* 157 909 621	6.9	5.8	65	28	28
90	20	IR	* 157 909 622	8.2	1.9	63	32	25
90	25	IR	* 157 909 623	8.2	2.3	64	32	26
90	32	IR	* 157 909 624	8.2	3.0	65	32	26
90	40	IR	* 157 909 625	8.2	3.7	66	32	28
90	50	IR	* 157 909 626	8.2	4.6	67	32	28
90	63	IR	* 157 909 627	8.2	5.8	70	33	28
90	75	IR	* 157 909 628	8.2	6.9	64	31	23
110	20	IR	* 157 909 629	10.0	1.9	73	42	25
110	25	IR	* 157 909 630	10.0	2.3	74	42	26
110	32	IR	* 157 909 631	10.0	3.0	75	42	26
110	40	IR	* 157 909 632	10.0	3.7	76	42	28
110	50	IR	* 157 909 633	10.0	4.6	77	42	28
110	63	IR	* 157 909 634	10.0	5.8	80	43	28
110	75	IR	* 157 909 635	10.0	6.9	74	41	23
110	90	IR	* 157 909 636	10.0	8.2	74	39	23

B

Eccentric Flush Style Reducer (160-315mm), PN 10, Standard PP

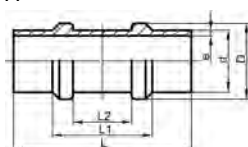
IR Plus/Butt Fusion



d1 (mm)	d2 (mm)	FM	Part No.	D	e1 (mm)	e2 (mm)	L (mm)	L1 (mm)	L2 (mm)
160	63	IR	* 157 909 656		14.6	5.8	95	58	28
160	75	IR	* 157 909 657		14.6	6.9	89	56	23
160	90	IR	* 157 909 659		14.6	8.2	89	54	23
160	110	IR	* 157 909 662		14.6	10.0	88	50	23
200	63	IR	* 157 909 663		18.2	5.8	115	78	28
200	75	IR	* 157 909 664		18.2	6.9	109	76	23
200	90	IR	* 157 909 706		18.2	8.2	109	74	23
200	110	IR	* 157 909 665		18.2	10.0	108	70	23
200	160	IR	* 157 909 666		18.2	14.6	116	61	33
225	63	IR	* 157 909 667		20.5	5.8	125	88	28
225	75	IR	* 157 909 668		20.5	6.9	119	86	23
225	90	IR	* 157 909 669		20.5	8.2	119	84	23
225	110	IR	* 157 909 670		20.5	10.0	118	80	23
225	160	IR	* 157 909 671		20.5	14.6	126	71	33
225	200	IR	* 157 909 672		20.5	18.2	124	64	33
250	63	IR	* 157 909 677		22.8	5.8	119	85	28
250	75	IR	* 157 909 678		22.8	6.9	115	80	23
250	90	IR	* 157 909 679		22.8	8.2	116	80	23
250	110	IR	* 157 909 680		22.8	10.0	118	80	28
250	160	IR	* 157 909 683		22.8	14.6	118	70	38
250	200	IR	* 157 909 684		22.8	18.2	118	67	38
250	225	IR	* 157 909 685		22.8	20.5	118	64	38
315	63	IR	* 157 909 696		28.7	5.8	154	100	28
315	75	IR	* 157 909 697		28.7	6.9	150	100	23
315	90	IR	* 157 909 698		28.7	8.2	151	100	23
315	110	IR	* 157 909 699		28.7	10.0	148	100	23
315	160	IR	* 157 909 702		28.7	14.6	148	100	23
315	200	IR	* 157 909 703		28.7	18.2	151	100	33
315	225	IR	* 157 909 704		28.7	20.5	153	99	33
315	250	IR	* 157 909 705		28.7	22.8	157	86	48

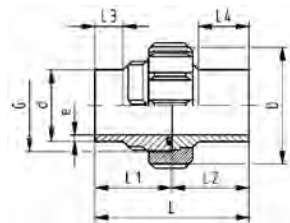
A

Restraint Fitting, PN 10, Standard PP



d (mm)	Part No.	D (mm)	e (mm)	L (mm)	L1 (mm)	L2 (mm)
20	* 727 918 656	28	1.9	100	53	32
25	* 727 918 657	33	2.3	100	53	32
32	* 727 918 658	40	2.9	100	53	32
50	* 727 918 660	58	4.6	100	53	32
63	* 727 918 661	71	5.8	105	53	32
90	* 727 918 663	105	8.2	125	70	40
110	* 727 918 664	127	10.0	125	70	40

A



Union, PN 10, Standard PP

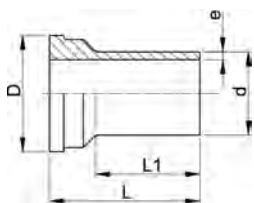
Model:

- Material: PP-H
- With butt fusion ends
- Conventional butt fusion and IR Plus® compatible
- Gasket: O-ring EPDM
- **For the dimensions d75-110 please see instructions for the installation**

d (mm)	FM	EPDM Part No.	FKM Part No.
20	IR	727 518 506	727 528 506
25	IR	727 518 507	727 528 507
32	IR	727 518 508	727 528 508
40	IR	^ 727 518 509	^ 727 528 509
50	IR	727 518 510	727 528 510
63	IR	727 518 511	727 528 511
75	IR	* 727 518 512	* 727 528 512
90	IR	* 727 518 513	* 727 528 513
110	IR	* 727 518 514	* 727 528 514

d (mm)	D (mm)	G (R/Rp BS Thread) (inch)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	e (mm)
20	48	1	107	54.0	53.0	13	26	1.9
25	58	1 1/4	113	57.0	56.0	12	26	2.3
32	65	1 1/2	119	60.0	59.0	14	26	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

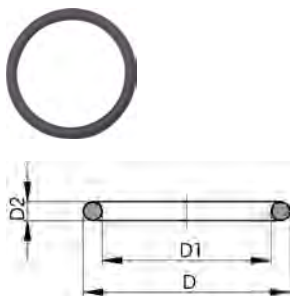
A



Union End, PN 10, Standard PP

d (mm)	FM	Part No.	D (mm)	L (mm)	L1 (mm)	e (mm)
20	IR	727 508 506	30	54	38	1.9
25	IR	727 508 507	39	57	42	2.3
32	IR	727 508 508	45	60	41	2.9
40	IR	727 508 509	57	63	42	3.7
50	IR	727 508 510	63	66	44	4.6
63	IR	727 508 511	78	69	45	5.8
75	IR	* 727 508 512	101	66	34	6.8
90	IR	727 508 513	101	66	45	8.2
110	IR	727 508 514	121	66	40	10.0

B



O-Ring for PROGEF, SYGEF Standard IR/BCF and Socket Fusion Unions

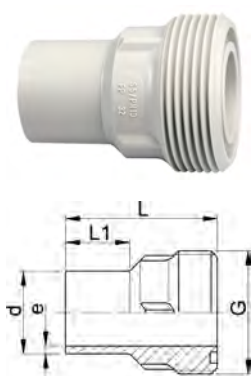
Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°F
- FKM minimum temperature -15°F
- * 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 Part No.	USD weight (kg)	FKM Part No.	USD weight (kg)
20	15	^ 748 410 006	0.002	^ 749 410 006	0.002
25	20	^ 748 410 007	0.002	^ 749 410 007	0.002
32	25	748 410 008	0.003	749 410 008	0.002
40	32	748 410 009	0.003	749 410 009	0.007
50	40	748 410 010	0.004	749 410 010	0.060
63	50	748 410 011	0.005	749 410 011	0.003
75	65	* 748 410 014	0.007	* 749 410 014	0.012
90	80	* 748 410 015	0.008	* 749 410 015	0.015
110	100	* 748 410 016	0.016	* 749 410 016	0.031

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
20	15	27	20	3.53	1/4
25	20	35	28	3.53	3/8
32	25	40	33	3.53	1
40	32	51	41	5.34	1 1/4
50	40	58	47	5.34	1 1/2
63	50	70	60	5.34	2
75	65	93	82	5.34	2 1/2
90	80	112	101	5.34	3
110	100	134	120	6.99	4

A



Union Bushing, PN 10, Standard PP, Socket Fusion

d (mm)	FM	Part No.	weight (lb)	G (R/Rp BS Thread) (inch)	L (mm)	L1 (mm)	e (mm)
20	IR	* 727 848 506	0.026	1	54	26	1.9
25	IR	* 727 848 507	0.044	1 1/4	57	26	2.3
32	IR	* 727 848 508	0.064	1 1/2	60	25	2.6
40	IR	* 727 848 509	0.104	2	63	25	3.7
50	IR	* 727 848 510	0.137	2 1/4	66	25	4.6
63	IR	* 727 848 511	0.236	2 3/4	69	25	5.8
75	IR	* 727 848 512	0.379	S107.5x3.6	66	24	6.8
90	IR	* 727 848 513	0.401	S107.5x3.6	66	24	8.2
110	IR	* 727 848 514	0.569	S127.5x3.6	66	25	10.0

B

Union Nut, PN 10, Standard PP

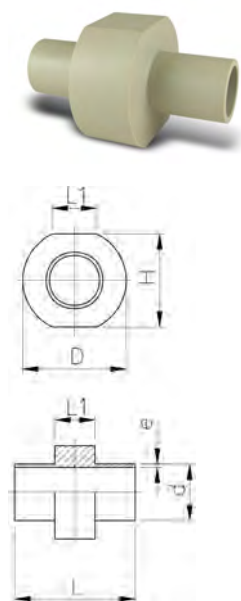


Socket Fusion d (mm)	Butt Fusion d (mm)	G (R/Rp BS Thread) (inch)	Part No.	USD	D (mm)	L (mm)
16	16	3/4	727 890 405		35	21
20	20	1	727 890 406		48	24
25	25	1 1/4	727 890 407		58	26
32	32	1 1/2	727 890 408		65	28
40	40	2	727 890 409		77	27
50	50	2 1/4	727 890 410		84	30
63	63	2 3/4	727 890 411		111	39
75	75 - 90	S107,5x3,6	*727 890 422		135	40
90	110	S127,5x3,6	*727 890 423		158	43
110	-	S152,5x3,6	*727 890 424		188	48

B

Instrument Installation Fitting, PN 10, Standard PP

Add "T" to end of part number and fee to list price for each factory milled thread (max. diameter is 3/4"). See published price list for fee.

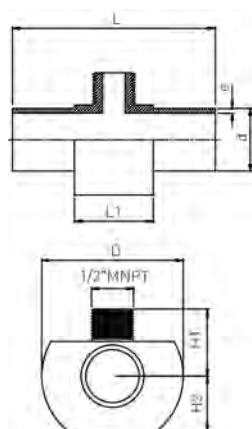


d (mm)	FM	Part No.	USD	e (mm)	L (mm)	D (mm)	H (mm)	L1 (mm)
20	IR	*727 918 606		1.9	140	71	58	40
25	IR	*727 918 607		2.3	140	75	63	40
32	IR	*727 918 608		3.0	140	81	70	40
40	IR	*727 918 609		3.7	140	88	78	40
50	IR	*727 918 610		4.6	140	97	88	40
63	IR	*727 918 611		5.8	140	109	101	40
75	IR	*727 918 612		6.9	140	120	113	40
90	IR	*727 918 613		8.2	140	134	128	40
110	IR	*727 918 614		10.0	140	153	148	40
160	IR	*727 918 567		14.6	140	191	187	40
200	IR	*727 918 569		18.2	140	223	220	40
225	IR	*727 918 570		20.5	140	243	240	40

B

1/2" MNPT Low Profile Adapter, PN 10, Standard PP

IR Plus/Butt Fusion



d (mm)	FM	Part No.	e (mm)	L (mm)	D (mm)	H1 (mm)	H2 (mm)	L1 (mm)
20	IR	*727 918 626	1.90	140	71	28	29	40
25	IR	*727 918 627	2.30	140	75	31	32	40
32	IR	*727 918 628	3.00	140	81	34	35	40
40	IR	*727 918 629	3.70	140	88	38	39	40
50	IR	*727 918 630	4.60	140	97	43	44	40
63	IR	*727 918 631	5.80	140	109	50	51	40
75	IR	*727 918 632	6.90	140	120	56	57	40
90	IR	*727 918 633	8.20	140	134	63	64	40
110	IR	*727 918 634	10.00	140	153	73	74	40

B



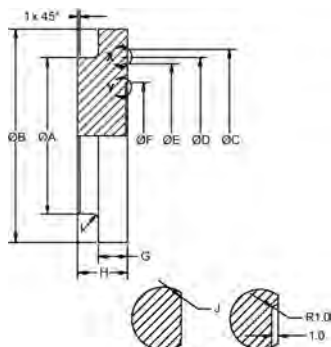
3/4" (3A) Sanitary Adapter, PN 10, Standard PP

IR Plus/Butt Fusion

3/4" size sanitary adapter port, i.e. 0.985" flange OD

d (mm)	FM	Part No.	USD	e (mm)	L (mm)	D (mm)	H1 (mm)	H2 (mm)	L1 (mm)
20	IR	* 727 918 646		1.9	140	71	28	29	40
25	IR	* 727 918 647		2.3	140	75	31	32	40
32	IR	* 727 918 648		3.0	140	81	34	35	40
40	IR	* 727 918 649		3.7	140	88	38	39	40
50	IR	* 727 918 650		4.6	140	97	43	44	40
63	IR	* 727 918 651		5.8	140	109	50	51	40
75	IR	* 727 918 652		6.9	140	120	56	57	40
90	IR	* 727 918 653		8.2	140	134	63	64	40
110	IR	* 727 918 654		10.0	140	153	73	74	40

A

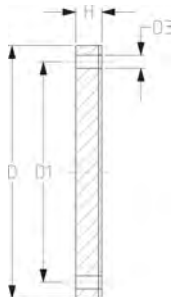


Blind Flange, PN 10, Standard PP

d (mm)	ANSI (inch)	Part No.	weight (lb)
20	½	727 991 362	0.040
25	¾	727 991 363	0.062
32	1	727 991 364	0.093
40	1 ¼	727 991 365	0.132
50	1 ½	727 991 366	0.172
63	2	727 991 367	0.309
90	3	727 991 369	0.672
110	4	727 991 370	0.970
160	6	* 727 991 372	2.205
200/225	8	* 727 991 373	5.115

d (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Rad I (mm)	Rad J (mm)
20	26	44	28	22		16	7	14	1.0	0.4
25	32	54	36	29		20	9	16	1.5	0.4
32	40	63	43	36		26	10	17	1.5	0.4
40	49	73	54	47		33	11	19	2.0	0.4
50	60	79	64	56		41	12	20	2.0	0.4
63	75	99	83	75	69	51	14	24	2.5	0.4
90	105	133	115	106	97	74	17	27	3.0	0.4
110	125	158	138	128	118	90	18	28	3.0	0.5
160	175	200	191	181	171	131	25	38	4.0	1.0
200/225	232	268	250	240	230	164	32	48	4.0	1.0

B

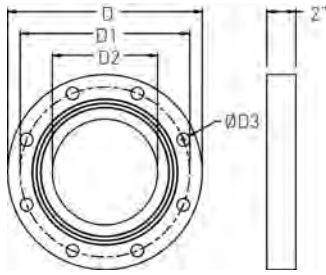


Blind Flange with PP Sheet, PN 10, Standard PP

- PP sheet is inside the blind flange as the wetted surface

d (mm)	Part No.	D (mm)	D1 (mm)	H (mm)	D3 (mm)	# holes
250	* 157 991 250	419.10	361.95	44.50	25.40	12
315	* 157 991 315	494.00	431.80	50.80	25.40	12
355	* 157 991 355	546.00	476.30	54.00	29.00	12
400	* 157 991 405	610.00	539.80	57.20	29.00	16
450	* 157 991 450	648.00	577.90	63.50	32.00	16
500	* 157 991 500	711.00	635.00	69.90	32.00	20

B



Full-Face Flange Spacer, PN 10, Standard PP

ANSI (inch)	Part No.	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	# holes
4	* 727 991 340	229	190	90	19	8
6	* 727 991 341	285	241	131	22	8
8	* 727 991 342	340	296	164	22	8
9	* 727 991 343	340	296	184	22	8
10	* 727 991 344	406	362	204	25	12
12	* 727 991 345	483	432	258	25	12

A

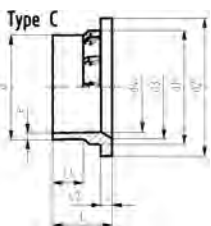
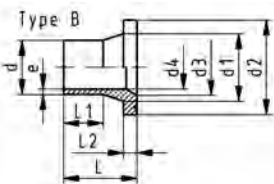
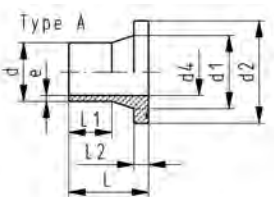
Type A



Type B



Type C



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

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to **ANSI/ASME B 16.5**
- Up to d315, suitable for butterfly valve type 567/578 and 038/039.
- Gasket: Profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

d (mm)	DN (mm)	FM	Part No.	weight (kg)
20	15	IR	727 798 706	0.015
25	20	IR	* 727 798 757	0.022
32	25	IR	* 727 798 758	0.039
40	32	IR	^ 727 798 759	0.056
50	40	IR	* 727 798 760	0.087
63	50	IR	727 798 711	0.144
75	65	IR	727 798 712	0.243
90	80	IR	* 727 798 763	0.310
110	100	IR	727 798 714	0.441
160	150	IR	727 798 317	0.927
200	200	IR	727 798 319	1.652
225	200	IR	* 727 798 320	1.665
250	250		* 727 798 321	2.630
315	300		* 727 798 323	3.247

d (mm)	DN (mm)	L1 (mm)	L2 (mm)	L (mm)	d1 (mm)	d4 (mm)	d2 (mm)	e (mm)	d3 (mm)	Type
20	15	29	7	50	26	16	45	1.9		A
25	20	27	9	52	33	20	54	2.3		A
32	25	28	10	54	40	26	63	3.0		A
40	32	25	11	55	50	32	73	3.7		A
50	40	32	12	62	61	40	82	4.6		A
63	50	38	14	68	75	49	102	5.8		A
75	65	43	16	80	89	58	122	6.8	66	B
90	80	42	17	80	105	70	133	8.2	78	B
110	100	41	18	80	125	87	158	10.0	100	B
160	150	40	25	92	175	127	212	14.6	151	C
200	200	35	32	100	232	174	268	18.2	203	C
225	200	35	32	100	235	196	268	20.5	210	C
250	250	45	35	120	285	203	320	22.7	252	C
315	300	50	50	150	335	256	370	28.6	300	C

A

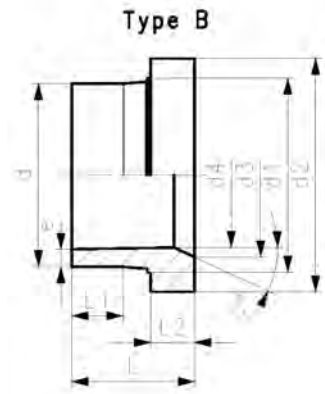


Flange Adaptor (355-500mm), PN 10, Standard PP, Joining Face Flat and Serrated

Model:

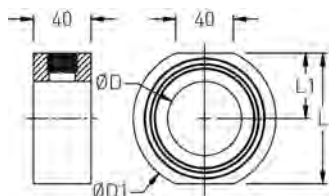
- Suitable for butterfly valve type 567/578 and 038/039

d (mm)	DN (mm)	Part No.	weight (kg)
355	350	* 727 798 924	7.300
400	400	* 727 798 925	10.200
450	500	* 727 798 926	17.900
500	500	* 727 798 927	20.100



d1 (mm)	d2 (mm)	d3 (mm)	a°	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	Type	e (mm)
373	430	350	25	284	187	70	65	B	33.9
427	482	400	25	320	196	70	70	B	38.2
467	533	450	23	360	272	105	107	B	43.0
530	585	498	25	400	261	105	90	B	47.8

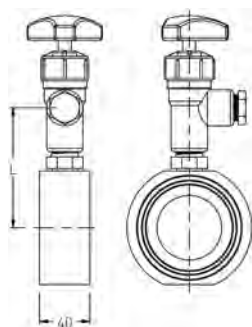
B



Wafer (Pre-Drilled) with 1/2" FNPT, PN 10, Standard PP

d (mm)	Part No.	L (mm)	L1 (mm)	D (mm)	D1 (mm)
50	* 727 992 260	71	35	40	82
63	* 727 992 261	94	47	51	102
75	* 727 992 262	115	57	61	121
90	* 727 992 263	127	63	73	133
110	* 727 992 264	153	76	90	158
160	* 727 992 265	208	104	130	212
200	* 727 992 266	265	132	163	268
225	* 727 992 267	265	132	184	268
250	* 727 992 268	317	158	204	320
315	* 727 992 269	368	184	257	370

B

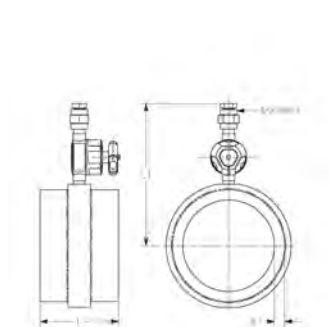


Wafer Vent, PN 10, Standard PP

Vent valve is 1/2" Type 522 Angle Needle Valve, with MPT plug

d (mm)	Part No.	L (mm)
50	* 727 991 960	84
63	* 727 991 961	95
75	* 727 991 962	106
90	* 727 991 963	112
110	* 727 991 964	125
160	* 727 991 965	153
200	* 727 991 966	181
225	* 727 991 967	181
250	* 727 991 968	207
315	* 727 991 969	232

B



Vent Port Assembly, PN 10, Standard PP

IR Plus/Butt Fusion

Vent is 1/2" PP-H Type 515 Diaphragm Valve with MPT plug

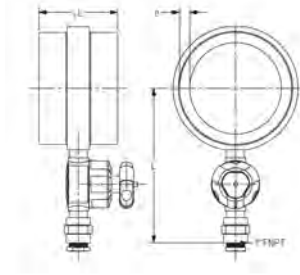
d (mm)	Part No.	USD	e (mm)	L (mm)	L1 (mm)
50	* 157 992 600		4.6	301	183
63	* 157 992 601		5.8	301	189
75	* 157 992 602		6.9	301	194
90	* 157 992 603		8.2	301	201
110	* 157 992 604		10.0	301	210
160	* 157 992 605		14.6	301	235
200	* 157 992 606		18.2	301	254
225	* 157 992 607		20.5	301	266
250	* 157 992 608		22.8	301	278
315	* 157 992 609		28.7	301	308

B

Drain Port Assembly, PN 10, Standard PP

IR Plus/Butt Fusion

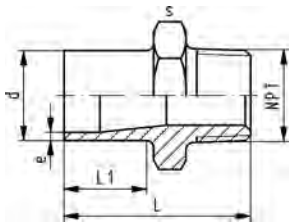
Drain is 1" PP-H Type 515 Diaphragm Valve with MPT plug



d (mm)	Part No.	ØD	e (mm)	L (mm)	L1 (mm)
50	*157 992 610		4.6	301	215
63	*157 992 611		5.8	301	221
75	*157 992 612		6.9	301	227
90	*157 992 613		8.2	301	233
110	*157 992 614		10.0	301	242
160	*157 992 615		14.6	301	268
200	*157 992 616		18.2	301	287
225	*157 992 617		20.5	301	294
250	*157 992 618		22.8	301	310
315	*157 992 619		28.7	301	340

A

Male Adapter, PN 10, Standard PP



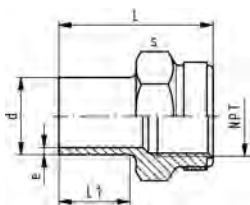
Model:

- 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 (mm)	NPT (inch)	FM	Part No.	L (mm)	L1 (mm)	s (mm)	e (mm)
20	½	IR	727 914 656	51	23	32	1.9
25	¾	IR	727 914 657	52	23	36	2.3
32	1	IR	727 914 658	55	23	46	2.9
40	1 ¼	IR	^ 727 914 659	58	24	55	3.7
50	1 ½	IR	727 914 660	60	23	65	4.6
63	2	IR	727 914 661	67	26	80	5.8

A

Female Adapter, PN 10, Standard PP

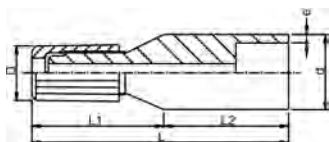


Model:

- Material: PP-H
- With butt fusion spigot **SDR11** 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 (mm)	NPT (inch)	FM	Part No.	weight (lb)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	½	IR	727 914 356	0.037	49	23	32	1.9
25	¾	IR	727 914 357	0.049	51	23	36	2.3
32	1	IR	727 914 358	0.086	54	23	46	2.9
40	1 ¼	IR	^ 727 914 359	0.126	56	23	55	3.7
50	1 ½	IR	727 914 360	0.187	60	23	65	4.6
63	2	IR	727 914 361	0.269	62	23	80	5.8

A

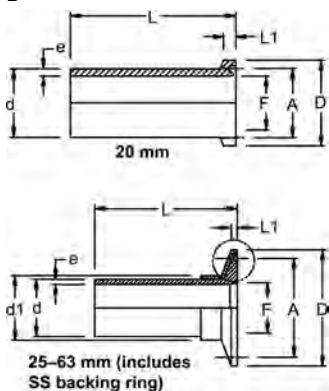


Flare Tube Adapter, PN 10, Standard PP

IR Plus/Butt Fusion
Nut is PVDF material

d	Tube Size	FM	Part No.	e	D	L	L1	L2
(mm)	(inch)			(mm)	(mm)	(mm)	(mm)	(mm)
20	¾	IR	* 727 991 430	1.9	19	74	43	31
20	¾	IR	* 727 991 431	1.9	22	77	46	31
20	½	IR	* 727 991 432	1.9	25	79	48	31
20	¾	IR	* 727 991 433	1.9	34	83	52	31
25	¾	IR	* 727 991 435	2.3	19	74	43	31
25	¾	IR	* 727 991 436	2.3	22	77	46	31
25	½	IR	* 727 991 437	2.3	25	79	48	31
25	¾	IR	* 727 991 438	2.3	34	83	52	31
25	1	IR	* 727 991 439	2.3	37	84	58	31
32	½	IR	* 727 991 442	3.0	25	79	48	31
32	¾	IR	* 727 991 443	3.0	34	83	52	31
32	1	IR	* 727 991 444	3.0	37	89	58	31

B

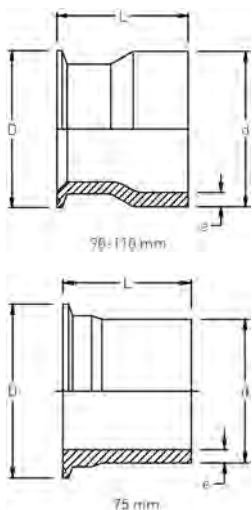


Sanitary Adapter, PN 10, Standard PP

IR Plus/Butt Fusion

d	Tube (3A)	FM	Part No.	e	D	d1	A	F	L	L1
(mm)	(inch)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	¾	IR	* 157 300 016	1.9	25				49	
25	1	IR	* 157 598 707	2.3	50	28	44	22	50	3
32	1 ½	IR	* 157 598 708	3.0	50	35	44	35	52	3
40	1 ½	IR	* 157 598 709	3.7	50	43	44	35	54	3
50	2	IR	* 157 598 710	4.6	64	53	57	48	61	3
63	2 ½	IR	* 157 598 711	5.8	77	66	71	60	67	3

B

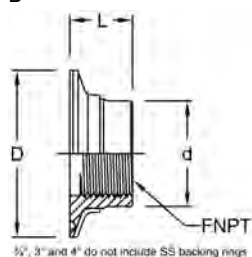


Large Sanitary Adapter, PN 6, Standard PP

Does not use a stationary backing ring
IR Plus/Butt Fusion

d	Tube (3A)	FM	Part No.	USD	e	D	L
(mm)	(inch)				(mm)	(mm)	(mm)
75	3	IR	* 727 598 370		6.9	91	67
90	3	IR	* 727 598 371		8.2	91	76
110	4	IR	* 727 598 372		10.0	119	76

B



Sanitary Instrument Adapter, PN 10, Standard PP

Tube (3A)	FNPT	Part No.	D	d	L
(inch)	(inch)		(mm)	(mm)	(mm)
3/4	1/4	* 727 992 400	25	20	13
1	1/4	* 727 992 401	51	40	19
1	3/8	* 727 992 402	51	40	19
1 1/2	1/4	* 727 992 403	51	40	19
1 1/2	1/2	* 727 992 404	51	40	19
1 1/2	3/4	* 727 992 405	51	40	19

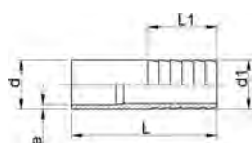
A



Hose Connector, PN 10, Standard PP

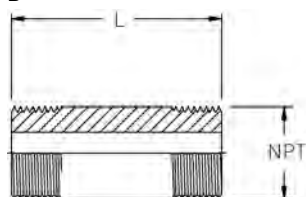
Model:

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



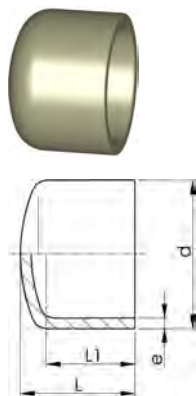
d	d1	FM	Part No.	e	L	L1
(mm)	(mm)			(mm)	(mm)	(mm)
20	20	IR	* 727 968 606	1.9	64	27
25	25	IR	* 727 968 607	2.3	75	36
32	32	IR	* 727 968 608	2.9	82	36
40	40	IR	* 727 968 609	3.7	84	42
50	50	IR	* 727 968 610	4.6	90	48
63	60	IR	* 727 968 611	5.8	100	50

B



Nipple, PN 10, Standard PP

Male NPT	L	Part No.
(inch)	(inch)	
1/2	2	* 727 992 350
1/2	3	* 727 992 351
1/2	4	* 727 992 352
3/4	2	* 727 992 353
3/4	3	* 727 992 354
3/4	4	* 727 992 355
1	2	* 727 992 356
1	3	* 727 992 357
1	4	* 727 992 358
1 1/4	3	* 727 992 359
1 1/4	4	* 727 992 360
1 1/2	3	* 727 992 361
1 1/2	4	* 727 992 362
2	3	* 727 992 363
2	4	* 727 992 364



End Cap (20-225mm), PN 10, Standard PP

d (mm)	FM	Part No.	weight (kg)	L (mm)	L1 (mm)	e (mm)
20	IR	727 968 106	0.005	49	42	1.9
25	IR	727 968 107	0.007	52	42	2.3
32	IR	727 968 108	0.016	57	47	2.9
40	IR	727 968 109	0.023	64	51	3.7
50	IR	727 968 110	0.048	72	59	4.6
63	IR	727 968 111	0.087	86	67	5.8
75	IR	727 968 112	0.138	94	73	6.8
90	IR	727 968 113	0.222	112	83	8.2
110	IR	727 968 114	0.375	124	90	10.0
160	IR	727 968 117	1.040	162	109	14.6
200	IR	727 968 119	1.860	179	117	18.2
225	IR	727 968 120	2.625	203	127	20.5

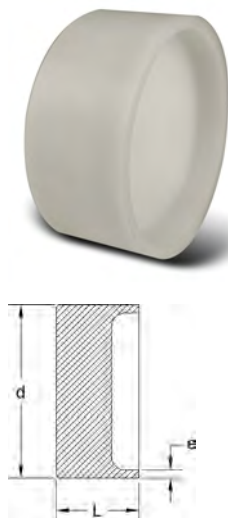
A



End Cap (250-500mm), PN 10, Standard PP

d (mm)	Part No.	L (mm)	e (mm)
250	* 727 968 846	60	22.7
315	* 727 968 848	70	28.6
355	* 727 968 849	80	32.2
400	* 727 968 850	85	36.3
450	* 727 968 851	95	40.9
500	* 727 968 852	105	74.5

B



Flush Style End Cap for tapping, PN 10, Standard PP

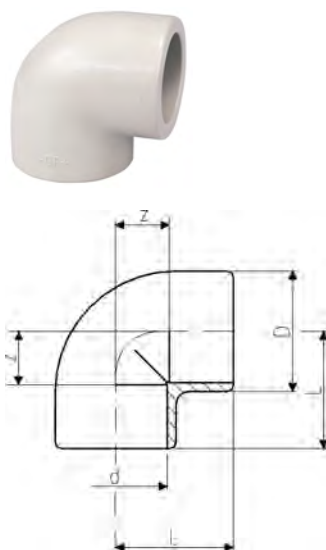
Add "T" to end of part number and fee to list price for each factory milled thread (max. diameter is 3/4"). See published price list for fee.

d (mm)	FM	Part No.	USD	e (mm)	L (mm)
20	IR	* 727 992 680		1.9	30
25	IR	* 727 992 681		2.3	30
32	IR	* 727 992 682		3.0	30
40	IR	* 727 992 683		3.7	30
50	IR	* 727 992 684		4.6	36
63	IR	* 727 992 685		5.8	37
75	IR	* 727 992 686		6.9	39
90	IR	* 727 992 687		8.2	40
110	IR	* 727 992 688		10.0	43
160	IR	* 727 992 690		14.6	57
200	IR	* 727 992 691		18.2	69
225	IR	* 727 992 692		20.5	77

Socket Fusion Fittings

A

90° Elbow, PN 10, Standard PP, Socket Fusion



d (mm)	Part No.	USD	D (mm)	L (mm)	z (mm)
16	727 100 105		26	25	12
20	727 100 106		31	28	14
25	727 100 107		36	32	16
32	727 100 108		44	38	20
40	^ 727 100 109		54	44	24
50	727 100 110		66	51	28
63	727 100 111		82	62	35
75	727 100 112		93	76	45
90	727 100 113		110	88	53
110	727 100 114		134	106	65

A

90° Elbow BSP Thread, PN 10, Standard PP, Socket Fusion



d (mm)	Rp (inch)	FBSP (inch)	Part No.	weight (lb)	D (mm)	L (mm)	z1 (mm)	z2 (mm)
20	½	½	* 727 100 206	0.049	30	28	14	14
25	¾	¾	* 727 100 207	0.077	35	32	16	16
32	1	1	* 727 100 208	0.126	44	38	20	20
40	1 ¼	1 ¼	* 727 100 209	0.192	54	44	24	24

A

45° Elbow, PN 10, Standard PP, Socket Fusion



d (mm)	Part No.	USD	D (mm)	L (mm)	z (mm)
16	727 150 105		23	20	7
20	727 150 106		31	21	7
25	727 150 107		36	24	8
32	727 150 108		44	28	10
40	^ 727 150 109		53	33	13
50	727 150 110		64	36	13
63	727 150 111		82	43	16
75	727 150 112		93	51	20
90	727 150 113		114	58	23
110	727 150 114		134	68	27

A

Tee, PN 10, Standard PP, Socket Fusion



d (mm)	Part No.	USD weight (kg)	D (mm)	L (mm)	z (mm)
16	727 200 105	0.020	26	25	12
20	727 200 106	0.027	31	28	14
25	727 200 107	0.039	36	32	16
32	727 200 108	0.057	44	38	20
40	727 200 109	0.095	54	44	24
50	727 200 110	0.161	66	51	28
63	727 200 111	0.286	82	62	35
75	727 200 112	0.390	93	76	45
90	727 200 113	0.727	114	88	53
110	727 200 114	1.062	134	106	65

A

Tee BSP Threaded Branch, PN 10, Standard PP, Socket Fusion



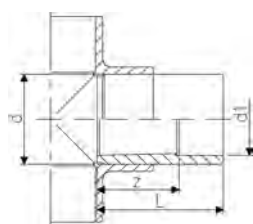
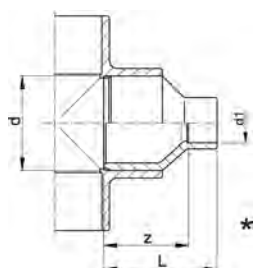
Model:

- Line is fusion socket metric
- Branch is 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)	FBSP (inch)	Part No.	USD	D (mm)	D1 (mm)	L (mm)	z1 (mm)	z2 (mm)
20	½	½	*727 200 206		31	30	28	14	14
25	¾	¾	*727 200 207		36	35	32	16	16
32	1	1	*727 200 208		44	45	38	20	20
40	1 ¼	1 ¼	*727 200 209		54	55	44	24	24

A

Reducer Bushing, PN 10, Standard PP, Socket Fusion



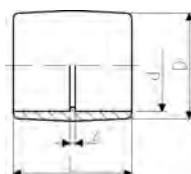
Note:

* Fusion spigot and socket

d (mm)	d1 (mm)	Part No.	L (mm)	z (mm)
20	16	727 910 334	35	22
25	16	727 910 338	38	25
25	20	727 910 337	37	23
32	20	727 910 342	43	29
32	25	727 910 341	43	27
40	20	^ 727 910 348	48	34
40	25	^ 727 910 347	48	32
40	32	^ 727 910 346	48	30
50	20	727 910 355	54	40
50	25	727 910 354	54	38
50	32	727 910 353	54	36
50	40	^ 727 910 352	54	34
63	25	727 910 361	64	46
63	32	727 910 360	64	46
63	40	^ 727 910 359	64	44
63	50	727 910 358	64	41
75	63	727 910 364	62	35
90	63	727 910 371	88	61
90	75	727 910 370	70	39
110	90	727 910 376	81	46

A

Coupling, PN 10, Standard PP, Socket Fusion



d (mm)	Part No.	USD	D (mm)	L (mm)	z (mm)
16	727 910 105		26	33	7
20	727 910 106		31	35	7
25	727 910 107		36	39	7
32	727 910 108		44	43	7
40	^ 727 910 109		54	48	8
50	727 910 110		66	54	8
63	727 910 111		82	62	8
75	727 910 112		93	70	8
90	727 910 113		112	81	11
110	727 910 114		134	96	14

A

Flange Adaptor, ANSI Serrated, PN 10, Standard PP, Socket Fusion



d (mm)	Part No.	USD weight (lb)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
20	727 790 206	0.024	27	45	19	7	5
25	727 790 257	0.040	33	54	21	7	5
32	727 790 258	0.057	41	63	23	7	5
40	^ 727 790 259	0.090	50	73	25	8	5
50	727 790 260	0.121	61	82	28	8	5
63	727 790 211	0.198	76	102	32	14	5
75	727 790 212	0.342	90	122	36	16	5
90	727 790 263	0.417	108	133	36	16	5
110	727 790 214	0.631	131	158	48	18	7

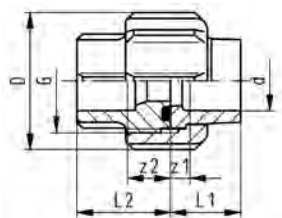
A

End Cap, PN 10, Standard PP, Socket Fusion



d (mm)	Part No.	USD	D (mm)	L (mm)
16	727 960 105		25	20
20	727 960 106		30	27
25	727 960 107		36	30
32	727 960 108		44	34
40	^ 727 960 109		53	38
50	727 960 110		65	44
63	727 960 111		80	51
75	727 960 112		91	65
90	727 960 113		111	77
110	727 960 114		137	93

A



Union, PN 10, Standard PP, Socket Fusion

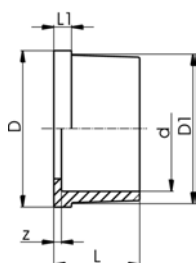
Model:

- Fusion socket metric
- Rated PN10 up to d110
- Joining face: with O-ring groove
- **For the dimensions d75-110 please see instructions for the installation**

d (mm)	EPDM Part No.	FKM Part No.
16	727 510 155	* 727 520 155
20	727 510 156	* 727 520 156
25	727 510 157	* 727 520 157
32	727 510 158	* 727 520 158
40	^ 727 510 159	* 727 520 159
50	727 510 160	* 727 520 160
63	727 510 161	* 727 520 161
75	^ 727 510 172	* 727 520 172
90	^ 727 510 173	* 727 520 173
110	^ 727 510 174	* 727 520 174

d (mm)	D (mm)	G (R/Rp BS Thread) (inch)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
16	35	3/4	18	24	3	9
20	48	1	19	26	3	10
25	58	1 1/4	21	28	3	10
32	65	1 1/2	23	30	3	10
40	79	2	25	34	3	12
50	91	2 1/4	28	39	3	14
63	111	2 3/4	32	47	3	18
75	135	S107,5x3,6	36	51	3	18
90	158	S127,5x3,6	42	55	5	18
110	188	S152,5x3,6	49	54	5	10

B



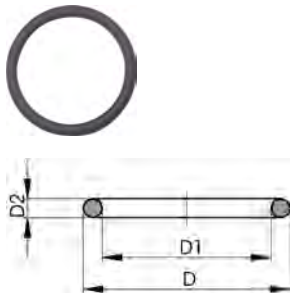
Union End, PN 10, Standard PP, Socket Fusion

Model:

- Fusion socket metric

d (mm)	Part No.	USD	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	727 500 105		24	22	18	4	3
20	727 500 106		30	28	19	5	3
25	727 500 107		39	36	21	5	3
32	727 500 108		45	42	23	6	3
40	727 500 109		57	53	25	6	3
50	727 500 110		63	59	28	7	3
63	727 500 111		79	74	32	8	3
75	* 727 500 112		101	91	36	10	3
90	* 727 500 113		121	108	42	11	5
110	* 727 500 114		146	131	49	12	6

B



O-Ring for PROGEF, SYGEF Standard IR/BCF and Socket Fusion Unions

Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°F
- FKM minimum temperature -15°F
- * 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 Part No.	USD weight (kg)	FKM Part No.	SD weight (kg)
16	10	748 410 005	0.004	749 410 005	0.002
20	15	^ 748 410 006	0.002	^ 749 410 006	0.002
25	20	^ 748 410 007	0.002	^ 749 410 007	0.002
32	25	748 410 008	0.003	749 410 008	0.002
40	32	748 410 009	0.003	749 410 009	0.007
50	40	748 410 010	0.004	749 410 010	0.060
63	50	748 410 011	0.005	749 410 011	0.003

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
16	10	21	16	2.62	¾
20	15	27	20	3.53	½
25	20	35	28	3.53	¾
32	25	40	33	3.53	1
40	32	51	41	5.34	1 ¼
50	40	58	47	5.34	1 ½
63	50	70	60	5.34	2

A



Union Bushing, PN 10, Standard PP, Socket Fusion

Model:

- Fusion socket metric
- For the dimensions d75-110 please see instructions for the installation

d (mm)	Part No.	USD	G (R/Rp BS Thread) (inch)	L (mm)	z (mm)
16	727 840 155		3/4	24	11
20	727 840 156		1	26	12
25	727 840 157		1 1/4	28	12
32	727 840 158		1 1/2	30	12
40	^ 727 840 159		2	34	14
50	727 840 160		2 1/4	39	16
63	727 840 161		2 3/4	47	20
75	* 727 840 172		S107,5x3,6	51	18
90	* 727 840 173		S127,5x3,6	55	18
110	* 727 840 174		S152,5x3,6	54	22

B



Union Nut, PN 10, Standard PP

Socket Fusion d (mm)	Butt Fusion d (mm)	G (R/Rp BS Thread) (inch)	Part No.	USD	D (mm)	L (mm)
16	16	3/4	727 890 405		35	21
20	20	1	727 890 406		48	24
25	25	1 1/4	727 890 407		58	26
32	32	1 1/2	727 890 408		65	28
40	40	2	727 890 409		77	27
50	50	2 1/4	727 890 410		84	30
63	63	2 3/4	727 890 411		111	39
75	75 - 90	S107,5x3,6	* 727 890 422		135	40
90	110	S127,5x3,6	* 727 890 423		158	43
110	-	S152,5x3,6	* 727 890 424		188	48

A



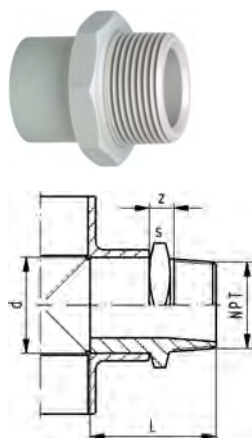
Metric x ASTM Adapter Union, PN 10, Standard PP, Socket Fusion

Model:

- Fusion socket metric
- Joining face: with O-ring groove

d (mm)	d2 (inch)	Part No.	U	D (mm)	G (R/Rp BS Thread) (inch)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
20	1/2	* 727 513 006		48	1	19	26	5	12
25	3/4	* 727 513 007		58	1 1/4	21	28	5	12
32	1	* 727 513 008		65	1 1/2	23	30	5	12
40	1 1/4	* 727 513 009		79	2	25	34	5	14
50	1 1/2	* 727 513 010		91	2 1/4	28	39	5	16
63	2	* 727 513 011		111	2 3/4	32	47	5	20

A



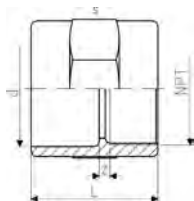
Male Threaded Adapter, PN 10, Standard PP, Socket Fusion (spigot end)

Model:

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

d (mm)	NPT (inch)	Part No.	USD	s (mm)	L (mm)	z (mm)
16	3/8	727 914 555		27	37	13
20	1/2	727 914 556		32	42	13
25	3/4	727 914 557		36	46	13
32	1	727 914 558		46	52	12
40	1 1/4	727 914 559		55	56	14
50	1 1/2	727 914 560		65	60	15
63	2	727 914 561		80	69	16

A



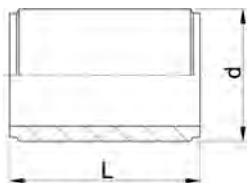
Female Threaded Adapter, PN 10, Standard PP, Socket Fusion

Model:

- 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	Part No.	USD	L	s	z
(mm)	(inch)			(mm)	(mm)	(mm)
20	½	727 914 266		40	32	7
25	¾	727 914 267		42	36	7
32	1	727 914 268		48	46	7
40	1 ¼	727 914 269		53	55	7
50	1 ½	727 914 270		54	65	9
63	2	727 914 271		62	80	9

A



Barrel Nipple, PN 10, Standard PP, Socket Fusion

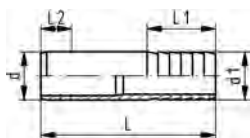
Model:

- Material: PP-H
- With socket fusion spigots on both ends
- For the shortest possible distance between fittings

* In these two sizes, stiffeners Code No. 727900006 (20 x 1.9) and 727900007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

d	Part No.	USD	weight	L
(mm)			(kg)	(mm)
16	727 910 905		0.005	36
* 20	*727 910 906		0.005	37
* 25	*727 910 907		0.006	41
32	*727 910 908		0.010	45
40	*727 910 909		0.017	50
50	*727 910 910		0.029	55
63	*727 910 911		0.058	64
75	*727 910 912		0.095	76
90	*727 910 913		0.163	90
110	*727 910 914		0.305	108

A



Hose Connector, PN 10, Standard PP, Socket Fusion

Model:

- With socket fusion spigot (metric) and parallel hose connection

d	d1	Part No.	L	L1	L2
(mm)	(mm)		(mm)	(mm)	(mm)
20	20	*727 960 406	78	27	14
25	25	*727 960 407	91	36	16
32	32	*727 960 408	100	36	18
40	40	*727 960 409	104	42	20
50	50	*727 960 410	90	48	23
63	60	*727 960 411	100	50	27

Electrofusion Fittings

A



Flex Restraint, Standard PP

- Use MSA 330/340

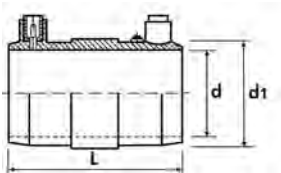
Size Range	Part No.	USD	Pack Qty	H	W	L
(inch)				(inch)	(inch)	(inch)
6 - 36	* 157 991 600		5	2.910	2.560	4.920

A



Electrofusion Coupling, Standard PP

- 4mm pin connectors
- Pipe to pipe fusion only
- Use MSA 330/340



Part No.	USD	weight	d	L	d1
		(kg)	(mm)	(mm)	(mm)
* 200 090 200		0.042	20	69	30
* 200 090 201		0.051	25	77	35
* 200 090 202		0.073	32	79	44
* ^ 200 090 203		0.096	40	91	53
* 200 090 204		0.131	50	102	64
* 200 090 205		0.227	63	117	80
* 200 090 206		0.333	75	128	95
* 200 090 207		0.486	90	144	112
* 200 090 208		0.813	110	159	136
* 200 090 209		1.089	125	170	153
* 200 090 211		1.651	160	185	194
* 200 090 213		3.588	200	210	243
* * 200 090 214		4.200	225	212	273
* * 200 090 215		6.600	250	260	315
* * 200 090 217		10.950	315		
* * 200 090 218		14.250	355		
* * 200 090 219		18.200	400		
* * 200 090 220		28.000	450		
* * 200 090 221		18.500	500		

Manual Valves

A



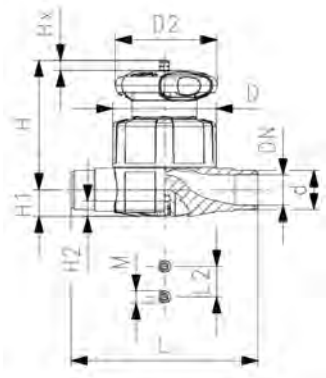
Type 515 Diaphragm Valve PROGEF Standard PP Socket fusion spigot metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- EPDM version is PN 10 pressure rated. PTFE/EPDM version is PN 6 pressure rated.

Option:

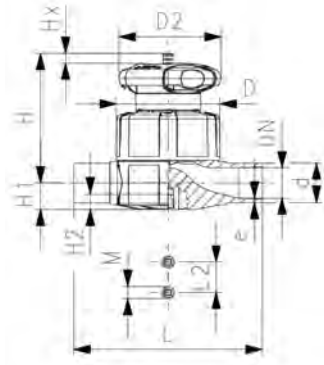
- Self adjusting multifunctional module with integrated limit switches



d (mm)	EPDM Part No.	PTFE/EPDM Part No.	FKM Part No.	weight (lb)
20	167 515 012	167 515 032	167 515 062	0.657
25	167 515 013	167 515 033	167 515 063	0.646
32	167 515 014	167 515 034	167 515 064	2.094
40	^ 167 515 015	^ 167 515 035	^ 167 515 065	2.443
50	167 515 016	167 515 036	167 515 066	4.535
63	167 515 017	167 515 037	167 515 067	5.741

d (mm)	D (mm)	D2 (mm)	L (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	M	Lift = Hx (mm)	e (mm)	closest inch (inch)
20	65	65	124	25	73	14	12	M6	7	1.9	1/2
25	80	65	144	25	81	18	12	M6	10	2.3	3/4
32	88	87	154	25	107	22	12	M6	13	2.9	1
40	101	87	174	45	115	26	15	M8	15	3.7	1 1/4
50	117	135	194	45	148	32	15	M8	19	4.6	1 1/2
63	144	135	223	45	166	39	15	M8	25	5.8	2

A



Type 515 Diaphragm Valve PROGEF Standard PP 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
- EPDM version is PN 10 pressure rated. PTFE/EPDM version is PN 6 pressure rated.

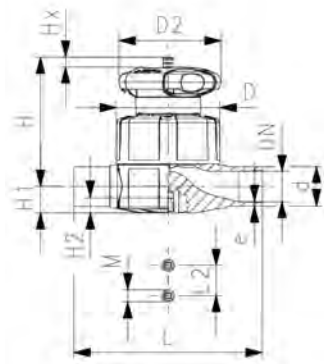
Option:

- Self adjusting multifunctional module with integrated limit switches

d (mm)	EPDM Part No.	USD	PTFE/EPDM Part No.	UK	FKM Part No.	weight (lb)
20	167 515 112		167 515 132		167 515 162	0.655
25	167 515 113		167 515 133		167 515 163	0.840
32	167 515 114		167 515 134		167 515 164	2.090
40	167 515 115		167 515 135		167 515 165	2.434
50	167 515 116		167 515 136		167 515 166	4.524
63	167 515 117		167 515 137		167 515 167	5.734

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	1.9	7	1/2
25	80	65	81	18	12	144	25	M6	2.3	10	3/4
32	88	87	107	22	12	155	25	M6	2.9	13	1
40	101	87	115	26	15	176	45	M8	3.7	15	1 1/4
50	117	135	148	32	15	193	45	M8	4.6	19	1 1/2
63	144	135	166	39	15	223	45	M8	5.8	25	2

A



Type 515 Diaphragm Valve PROGEF Plus PP Silicone Free Butt fusion spigots SDR11 metric

d (mm)	EPDM Part No.	UK	PTFE/EPDM Part No.
20	167 515 122		167 515 172
25	167 515 123		167 515 173
32	167 515 124		167 515 174
40	^ 167 515 125		^ 167 515 175
50	167 515 126		167 515 176
63	167 515 127		167 515 177

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	1.9	7	1/2
25	80	65	81	18	12	144	25	M6	2.3	10	3/4
32	88	87	107	22	12	155	25	M6	2.9	13	1
40	101	87	115	26	15	176	45	M8	3.7	15	1 1/4
50	117	135	148	32	15	193	45	M8	4.6	19	1 1/2
63	144	135	166	39	15	223	45	M8	5.8	25	2



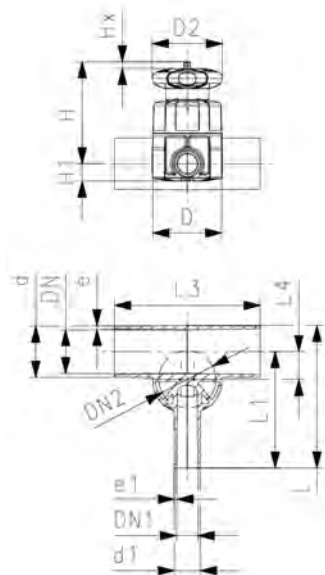
Type 519 Zero Static Diaphragm Valve
PROGEF Standard PP
Butt fusion spigots metric

Model:

- 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:

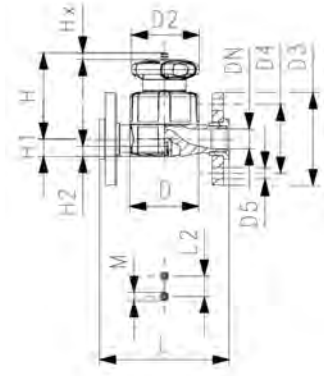
- Self adjusting multifunctional module with integrated limit switches



d (mm)	d1 (mm)	DN (mm)	PN (bar)	Cv-value (l/min)	EPDM Part No.	'ISD	PTFE/EPDM Part No.	D
20	20	15	10	57	^ 167 519 101		^ 167 519 301	
25	20	20	10	89	^ 167 519 103		^ 167 519 303	
25	25	20	10	118	^ 167 519 104		^ 167 519 304	
32	20	25	10	80	^ 167 519 107		^ 167 519 307	
32	25	25	10	105	^ 167 519 108		^ 167 519 308	
32	32	25	10	231	^ 167 519 109		^ 167 519 309	
40	20	32	10	85	^ 167 519 112		^ 167 519 312	
40	40	32	10	187	^ 167 519 115		^ 167 519 315	
50	20	40	10	86	^ 167 519 118		^ 167 519 318	
50	25	40	10	160	^ 167 519 119		^ 167 519 319	
50	32	40	10	206	^ 167 519 120		^ 167 519 320	
63	20	50	10	84	^ 167 519 125		^ 167 519 325	
63	25	50	10	150	^ 167 519 126		^ 167 519 326	
63	32	50	10	184	^ 167 519 127		^ 167 519 327	

d (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	e1 (mm)	Lift = Hx (mm)	Valve Size d (mm)	DN1 (mm)	DN2 (mm)
20	65	65	75	117	96	162	12	1.9	1.9	7	20	15	15
25	80	65	80	133	108	162	16	2.3	1.9	10	25	15	20
25	80	65	80	133	108	162	16	2.3	2.3	10	25	20	20
32	80	65	84	142	120	162	19	2.9	1.9	10	25	15	20
32	80	65	84	142	120	162	19	2.9	2.3	10	25	20	20
32	88	87	107	145	120	160	19	2.9	2.9	13	32	25	25
40	88	87	115	149	128	180	23	3.7	1.9	13	32	15	25
40	88	87	115	174	153	180	23	3.7	3.7	13	32	32	25
50	80	65	97	160	134	180	27	4.6	1.9	10	25	15	20
50	88	87	120	160	134	180	28	4.6	2.3	13	32	20	25
50	88	87	120	160	134	180	28	4.6	2.9	13	32	25	25
63	80	65	104	177	144	180	33	5.8	1.9	10	25	15	20
63	88	87	127	177	144	180	35	5.8	2.3	13	32	20	25
63	88	87	127	177	144	180	35	5.8	2.9	13	32	25	25

A



Type 517 Diaphragm Valve PROGEF Standard PP ANSI Flanged

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- EPDM version is PN 10 pressure rated. PTFE/EPDM version is PN 6 pressure rated.
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

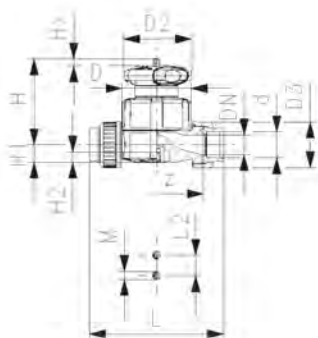
Option:

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

Size (inch)	EPDM Part No.	PTFE/EPDM Part No.	weight (lb)
½	^ 167 517 712	^ 167 517 732	1.080
¾	^ 167 517 713	^ 167 517 733	1.411
1	^ 167 517 714	^ 167 517 734	2.901
1 ¼	^ 167 517 715	^ 167 517 735	3.660
1 ½	^ 167 517 716	^ 167 517 736	5.800
2	^ 167 517 717	^ 167 517 737	7.875

Size (inch)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
½	65	65	95	60	16	73	14	12	130	25	M6	7
¾	80	65	105	70	16	81	18	12	150	25	M6	10
1	88	87	115	79	16	107	22	12	160	25	M6	13
1 ¼	101	87	140	89	16	115	26	15	180	45	M8	15
1 ½	117	135	150	98	16	148	32	15	200	45	M8	19
2	144	135	165	121	19	166	39	15	230	45	M8	25

A



Type 514 Diaphragm Valve PROGEF Standard PP Fusion sockets 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

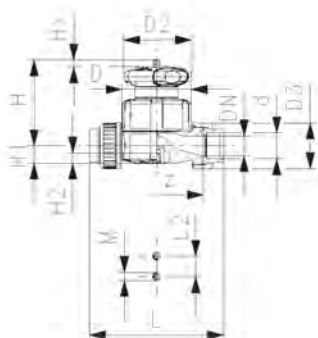
Option:

- Self adjusting multifunctional module with integrated limit switches

d (mm)	EPDM Part No.	USD	PTFE/EPDM Part No.	USD	FKM Part No.	USD	weight (lb)
20	167 514 012		167 514 032		167 514 062		0.589
25	167 514 013		167 514 033		167 514 063		0.862
32	167 514 014		167 514 034		167 514 064		2.538
40	167 514 015		167 514 035		167 514 065		2.815
50	167 514 016		167 514 036		167 514 066		3.056
63	167 514 017		167 514 037		167 514 067		6.680

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	48	73	14	12	128	25	M6	100	7	½
25	80	65	58	81	18	12	150	25	M6	118	10	¾
32	88	87	65	107	22	12	162	25	M6	126	13	1
40	101	87	79	115	26	15	184	45	M8	144	15	1 ¼
50	117	135	91	148	32	15	210	45	M8	164	19	1 ½
63	144	135	111	166	39	15	248	45	M8	194	25	2

A

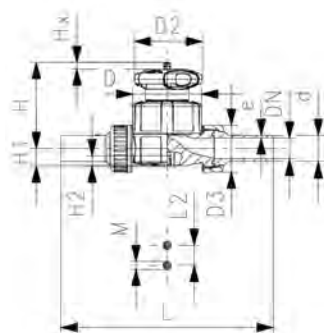


Type 514 Diaphragm Valve PROGEF Plus PP Silicone Free Fusion sockets metric

d (mm)	EPDM Part No.	USD	PTFE/EPDM Part No.	USD
20	167 514 022		167 514 072	
25	167 514 023		167 514 073	
32	167 514 024		167 514 074	
40	167 514 025		167 514 075	
50	167 514 026		167 514 076	
63	167 514 027		167 514 077	

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	128	25	M6	100	7	½
25	80	65	51	81	18	12	150	25	M6	118	10	¾
32	88	87	58	107	22	12	162	25	M6	126	13	1
40	101	87	72	115	26	15	184	45	M8	144	15	1 ¼
50	117	135	83	148	32	15	210	45	M8	164	19	1 ½
63	144	135	100	166	39	15	248	45	M8	194	25	2

A



Type 514 Diaphragm Valve PROGEF Standard PP 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

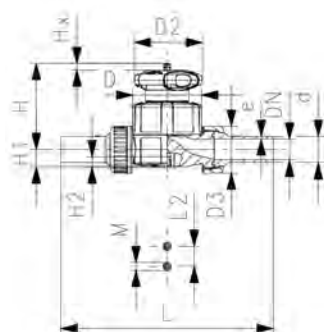
Option:

- Self adjusting multifunctional module with integrated limit switches

d (mm)	EPDM Part No.	PTFE/EPDM Part No.	FKM Part No.
20	167 514 112	167 514 132	167 514 162
25	167 514 113	167 514 133	167 514 163
32	167 514 114	167 514 134	167 514 164
40	167 514 115	167 514 135	167 514 165
50	167 514 116	167 514 136	167 514 166
63	167 514 117	167 514 137	167 514 167

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	48	73	14	12	196	25	M6	1.9	7	½
25	80	65	58	81	18	12	221	25	M6	2.3	10	¾
32	88	87	65	107	22	12	234	25	M6	2.9	13	1
40	101	87	79	115	26	15	260	45	M8	3.7	15	1 ¼
50	117	135	91	148	32	15	284	45	M8	4.6	19	1 ½
63	144	135	111	166	39	15	321	45	M8	5.8	25	2

A



Type 514 Diaphragm Valve PROGEF Plus PP Silicone Free Butt fusion spigots SDR11 metric

d (mm)	EPDM Part No.	PTFE/EPDM Part No.
20	167 514 122	167 514 172
25	167 514 123	167 514 173
32	167 514 124	167 514 174
40	167 514 125	167 514 175
50	167 514 126	167 514 176
63	167 514 127	167 514 177

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	196	25	M6	1.9	7	½
25	80	65	51	81	18	12	221	25	M6	2.3	10	¾
32	88	87	58	107	22	12	234	25	M6	2.9	13	1
40	101	87	72	115	26	15	260	45	M8	3.7	15	1 ¼
50	117	135	83	148	32	15	284	45	M8	4.6	19	1 ½
63	144	135	100	166	39	15	321	45	M8	5.8	25	2

A



Type 317 Diaphragm Valve PROGEF Standard Flanged

Model:

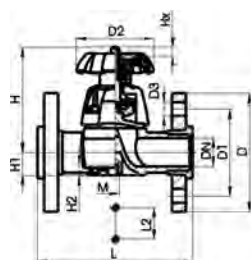
- Material: PP-H
- Joining faces serrated
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With PP-V backing flanges DN 15-65

Option:

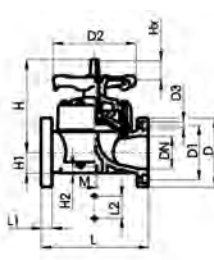
- Handwheel with built-in locking mechanism
- * With PP fixed flanges, joining faces flat

Size (inch)	EPDM Part No.	PTFE Part No.
2 ½	* 167 317 523	* 167 317 538
3	* 167 317 024	* 167 317 039
4	* 167 317 325	* 167 317 340
6	* 167 317 027	* 167 317 042

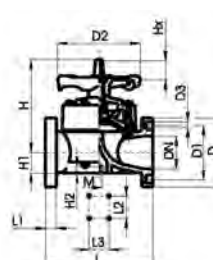
Size (inch)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
2 ½	185	140	152	19	210	46	15	290		70		M8	35	4
3	200	160	270	18	265	57	23	310	35	120		M12	40	8
4	225	190	270	19	304	69	23	350	38	120		M12	50	8
6	282	241	400	23	437	108	23	480	29	100	200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



DN 15-65



DN 80-100

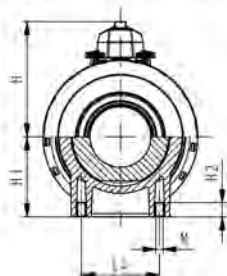
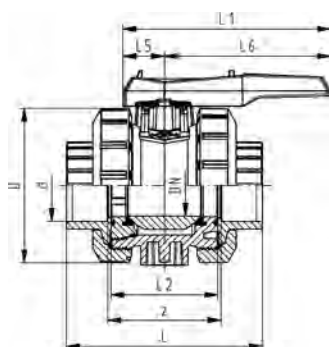
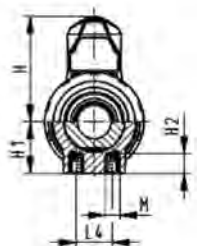
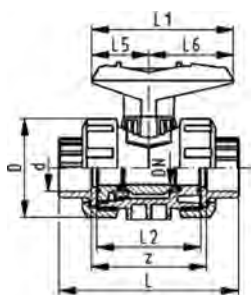


DN 150

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DN10/15 - 50



Type 546 Ball Valve PROGEF Standard
With mounting inserts
With fusion sockets metric

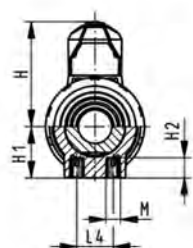
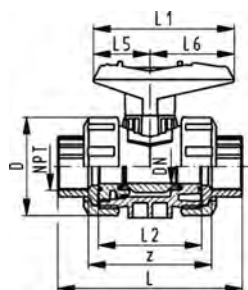
d (mm)	EPDM Part No.	FKM Part No.	ISO weight (lb)
16	167 546 401	167 546 411	0.254
20	167 546 402	167 546 412	0.271
25	167 546 403	167 546 413	0.406
32	167 546 404	167 546 414	0.569
40	167 546 405	167 546 415	0.994
50	167 546 406	167 546 416	1.360
63	167 546 407	167 546 417	2.491
75	167 546 408	167 546 418	7.352
90	167 546 409	167 546 419	12.125
110	167 546 410	167 546 420	19.180

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)	closest inch (inch)
16	50	57	27	12	93	77	56	25	32	45	M6	67	$\frac{3}{8}$
20	50	57	27	12	95	77	56	25	32	45	M6	66	$\frac{1}{2}$
25	58	67	30	12	109	97	65	25	39	58	M6	77	$\frac{3}{4}$
32	68	73	36	12	119	97	71	25	39	58	M6	83	1
40	84	90	44	15	135	128	85	45	54	74	M8	99	1 $\frac{1}{4}$
50	97	97	51	15	147	128	89	45	54	74	M8	105	1 $\frac{1}{2}$
63	124	116	64	15	168	152	101	45	66	87	M8	117	2
75	166	149	85	15	233	270	136	70	64	206	M8	167	2 $\frac{1}{2}$
90	200	161	105	15	254	270	141	70	64	206	M8	180	3
110	238	178	123	22	301	320	164	120	64	256	M12	215	4

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DN10/15 - 50



Type 546 Ball Valve PROGEF Standard
With mounting inserts
With threaded sockets NPT

Option:

- Individual configuration of the valve (see diagram)

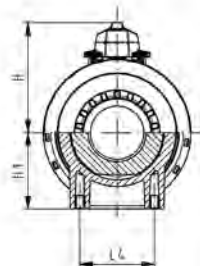
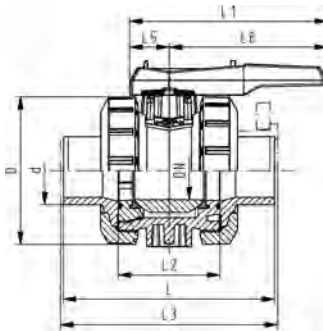
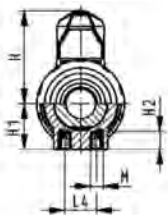
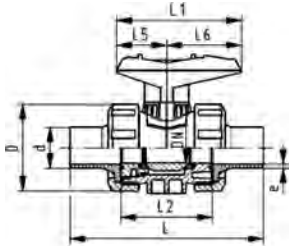
NPT (inch)	EPDM Part No.	FKM Part No.	weight (lb)
3/8	167 546 321	167 546 331	0.265
1/2	167 546 322	167 546 332	0.265
3/4	167 546 323	167 546 333	0.397
1	167 546 324	167 546 334	0.595
1 1/4	167 546 325	167 546 335	1.014
1 1/2	167 546 326	167 546 336	1.400
2	167 546 327	167 546 337	2.624

NPT (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
3/8	50	57	27	12	96	77	56	25	32	45	M6	71
1/2	50	57	27	12	99	77	56	25	32	45	M6	64
3/4	58	67	30	12	111	97	65	25	39	58	M6	76
1	68	73	36	12	127	97	71	25	39	58	M6	83
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	111
2	124	116	64	15	183	152	101	45	66	87	M8	134

A



DN10/15 - 50



Type 546 Ball Valve PROGEF Standard
With mounting inserts
With butt fusion spigots IR-Plus

Model:

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

Option:

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

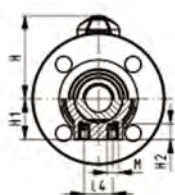
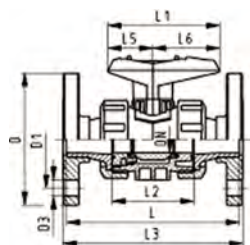
d (mm)	EPDM Part No.	USD	FKM Part No.	weight (lb)
20	167 546 442		167 546 452	0.271
25	167 546 443		167 546 453	0.408
32	167 546 444		167 546 454	0.580
40	167 546 445		167 546 455	1.005
50	167 546 446		167 546 456	1.415
63	167 546 447		167 546 457	2.601
75	167 546 448		167 546 458	5.736
90	167 546 449		167 546 459	12.125
110	167 546 450		167 546 460	19.180

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)	closest inch (inch)
20	50	57	27	12	130	77	56	25	32	45	M6	1.9	½
25	58	67	30	12	143	97	65	25	39	58	M6	2.3	¾
32	68	73	36	12	150	97	71	25	39	58	M6	2.9	1
40	84	90	44	15	171	128	85	45	54	74	M8	3.7	1 ¼
50	97	97	51	15	191	128	89	45	54	74	M8	4.6	1 ½
63	124	116	64	15	220	152	101	45	66	87	M8	5.8	2
75	166	149	85	15	266	270	136	70	64	206	M8	6.8	2 ½
90	200	161	105	15	264	270	141	70	64	206	M8	8.2	3
110	238	178	123	22	301	320	164	120	64	256	M12	10.0	4

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DN10/15 - 50



Type 546 True Union Ball Valve-PROGEF Standard ANSI Flanged

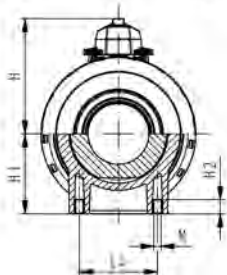
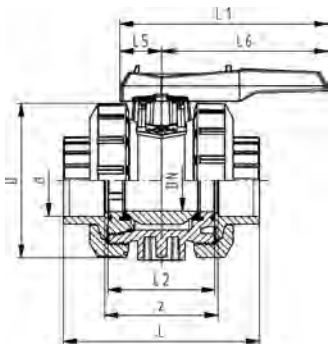
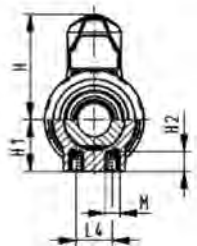
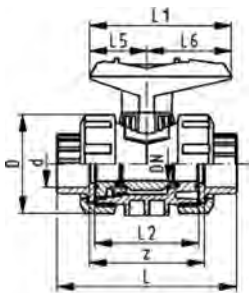
Size (inch)	EPDM Part No.	USD	FKM Part No.	USD weight (lb)
½	^ 167 546 582		^ 167 546 592	1.455
¾	^ 167 546 583		^ 167 546 593	1.521
1	^ 167 546 584		^ 167 546 594	1.896
1 ¼	^ 167 546 585		^ 167 546 595	0.002
1 ½	^ 167 546 586		^ 167 546 596	3.891
2	^ 167 546 587		^ 167 546 597	5.512
2 ½	^ 167 546 588		^ 167 546 598	8.157
3	^ 167 546 589		^ 167 546 599	12.125
4	^ 167 546 590		^ 167 546 600	0.002

Size (inch)	D (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
½	50	16	57	26	12	166	77	56	25	32	45	6
¾	58	16	67	30	12	177	97	65	25	39	58	6
1	68	16	73	36	12	191	97	71	25	39	58	6
1 ¼	84	16	90	44	15	209	128	85	45	54	74	6
1 ½	97	16	97	51	15	229	128	89	45	54	74	6
2	124	16	116	64	15	253	152	101	45	66	87	6
2 ½	166	19	149	85		416	379	136	70	64	206	8
3	200	19	161	105		414	419	141	70	64	506	8
4	238	19	178	123		451	456	164	120	64	206	12

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DN10/15 - 50



Type 546 Ball Valve PROGEF® Plus silicone free
With mounting inserts
Socket Fusion with PTFE seats, metric

Model:

- For easy installation and removal
- Ball seals PVDF
- Integrated stainless steel mounting inserts

Option:

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

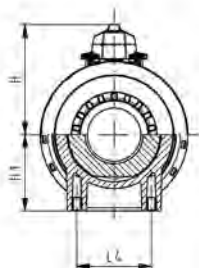
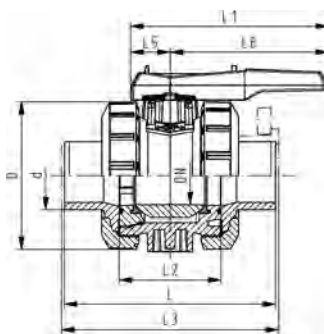
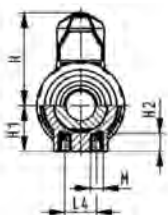
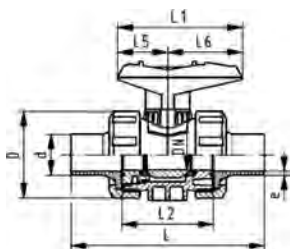
d (mm)	EPDM Part No.	I	FKM Part No.
16	167 546 601		167 546 611
20	167 546 602		167 546 612
25	167 546 603		167 546 613
32	167 546 604		167 546 614
40	167 546 605		167 546 615
50	167 546 606		167 546 616
63	167 546 607		167 546 617
75	167 546 608		167 546 618
90	167 546 609		167 546 619
110	167 546 610		167 546 620

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)	closest inch (inch)
16	50	57	27	12	93	77	56	25	32	45	M6	67	3/8
20	50	57	27	12	95	77	56	25	32	45	M6	66	1/2
25	58	67	30	12	108	97	65	25	39	58	M6	77	3/4
32	68	73	36	12	118	97	71	25	39	58	M6	83	1
40	84	90	44	15	137	128	85	45	54	74	M8	99	1 1/4
50	97	97	51	15	147	128	89	45	54	74	M8	105	1 1/2
63	124	116	64	15	168	152	101	45	66	87	M8	117	2
75	166	149	85	15	233	270	136	70	64	206	M8	167	2 1/2
90	200	161	105	15	254	270	141	70	64	206	M8	180	3
110	238	178	123	22	301	320	164	120	64	256	M12	215	4

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PROGEF Plus silicone free
Ball valve Type 546
With mounting inserts, With butt fusion spigots, metric

Model:

- For easy installation and removal
- Ball seals PVDF
- Integrated stainless steel mounting inserts

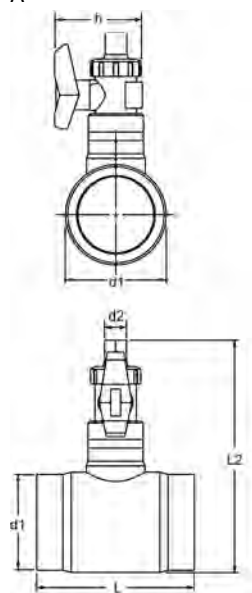
Option:

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

d (mm)	EPDM Part No.	'SD	FKM Part No.
20	167 546 662		167 546 672
25	167 546 663		167 546 673
32	167 546 664		167 546 674
40	167 546 665		167 546 675
50	167 546 666		167 546 676
63	167 546 667		167 546 677
75	167 546 668		167 546 678
90	167 546 669		167 546 679
110	167 546 670		167 546 680

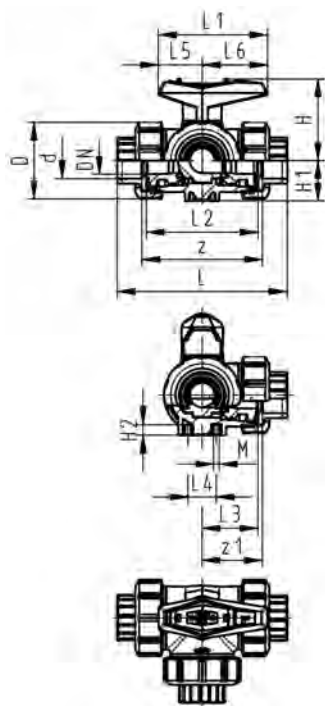
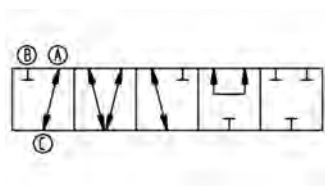
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	57	27	12	130	77	56	25	32	45	M6	1.9	1/2
25	58	67	30	12	143	97	65	25	39	58	M6	2.3	3/4
32	68	73	36	12	150	97	71	25	39	58	M6	2.9	1
40	84	90	44	15	171	128	85	45	54	74	M8	3.7	1 1/4
50	97	97	51	15	191	128	89	45	54	74	M8	4.6	1 1/2
63	124	116	64	15	220	152	101	45	66	87	M8	5.8	2
75	166	149	85	15	266	270	136	70	64	206	M8	6.8	2 1/2
90	200	161	105	15	264	270	141	70	64	206	M8	8.2	3
110	238	178	123	22	301	320	164	120	64	256	M12	10.0	4

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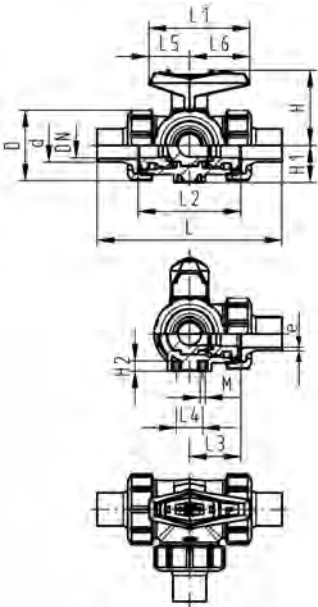
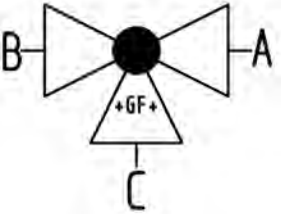
Tee Valves PROGEF-PP

Tee Valve Size (mm)	FKM Part No.	EPDM Part No.	USD	d1 (mm)	d2 (mm)	L (mm)	L2 (mm)	h (mm)
25 - 25	157 319 203	157 319 103		25	25	84	148	99
32 - 25	157 319 204	157 319 104		32	25	92	152	99
50 - 25	157 319 205	157 319 105		50	25	116	165	99
63 - 25	^ 157 319 206	^ 157 319 106		63	25	132	211	97
63 - 32	^ 157 319 207	^ 157 319 107		63	32	132	247	109
90 - 25	^ 157 319 220	^ 157 319 120		90	25	160	247	97
90 - 32	^ 157 319 210	^ 157 319 110		90	32	160	281	109
110 - 25	^ 157 319 221	^ 157 319 121		110	25	180	266	97
110 - 32	^ 157 319 213	^ 157 319 113		110	32	180	301	109
160 - 32	^ 157 319 223	^ 157 319 123		160	32	180	366	109
160 - 25	157 319 222	157 319 122		160	25	284	237	99
160 - 63	^ 157 319 224	^ 157 319 124		160	63	284	418	180



d (mm)	EPDM Part No.	FKM Part No.	USD weight (lb)
16	167 543 001	167 543 011	0.355
20	167 543 002	167 543 012	0.364
25	167 543 003	167 543 013	0.522
32	167 543 004	167 543 014	0.796
40	167 543 005	167 543 015	1.358
50	167 543 006	167 543 016	2.011
63	167 543 007	167 543 017	4.149

A

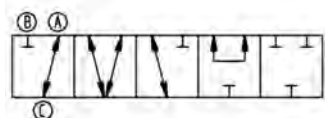
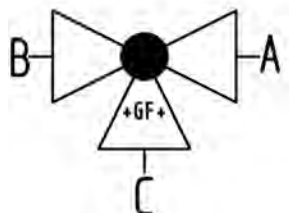


Type 543 3-Way Ball Valve
Horizontal/L-port PROGEF Standard
With butt fusion spigots IR-Plus
SDR11 metric

d (mm)	EPDM Part No.	USD	FKM Part No.	weight (lb)
20	167 543 062		167 543 072	0.377
25	167 543 063		167 543 073	0.545
32	167 543 064		167 543 074	0.831
40	167 543 065		167 543 075	1.387
50	167 543 066		167 543 076	2.101
63	167 543 067		167 543 077	4.090

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 (mm)	e (mm)	closest inch (inch)
20	50	146	77	72	36	25	32	45	57	28	8	6	1.9	1/2
25	58	163	97	85	43	25	39	58	67	32	8	6	2.3	3/4
32	68	178	97	98	49	25	39	58	73	36	8	6	2.9	1
40	84	204	128	118	59	45	54	74	90	45	9	8	3.7	1 1/4
50	97	237	128	135	68	45	54	74	97	51	9	8	4.6	1 1/2
63	124	296	152	176	88	45	66	87	116	65	9	8	5.8	2

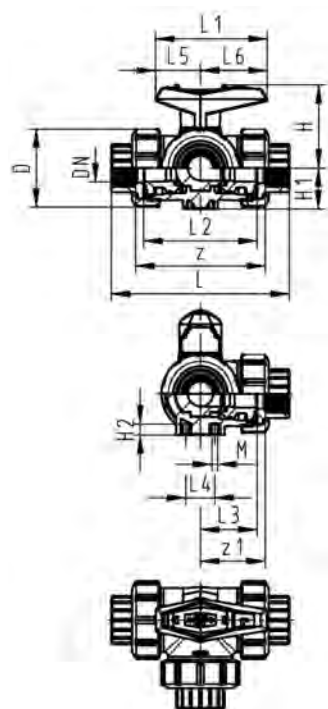
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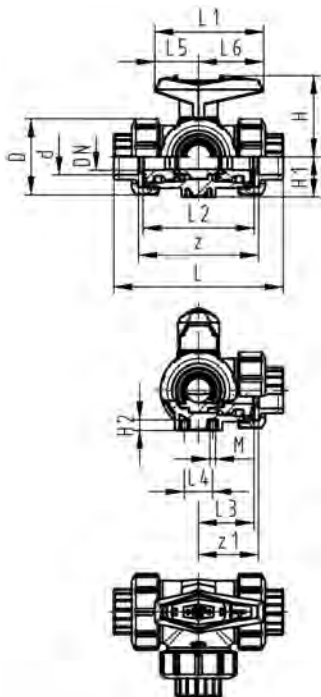
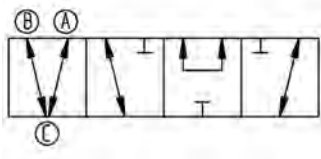
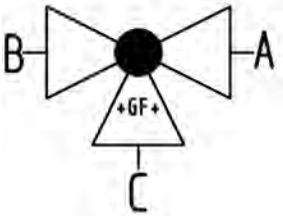
Type 543 3-Way Ball Valve
Horizontal/L-port PROGEF Standard
With threaded sockets NPT reinforced

NPT (inch)	EPDM Part No.	USD	FKM Part No.	USD weight (lb)
3/8	167 543 161		167 543 171	0.355
1/2	167 543 162		167 543 172	0.364
3/4	167 543 163		167 543 173	0.522
1	167 543 164		167 543 174	0.796
1 1/4	167 543 165		167 543 175	1.358
1 1/2	167 543 166		167 543 176	2.011
2	167 543 167		167 543 177	3.909

NPT (inch)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	H (mm)	H1 (mm)	H2 (mm)	M (mm)	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	80	40
3/4	58	131	97	85	43	25	39	58	67	32	8	6	95	48
1	68	154	97	98	49	25	39	58	73	36	8	6	110	55
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	157	79
2	124	258	152	176	88	45	66	87	116	65	9	8	210	105



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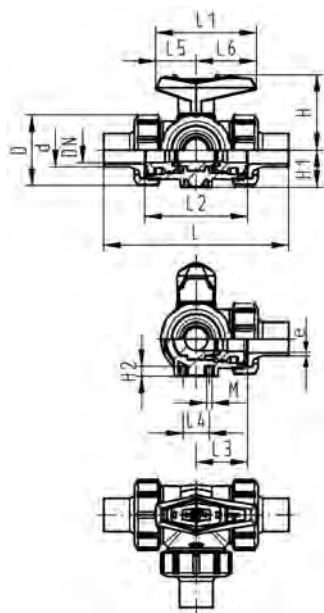
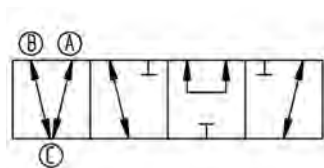
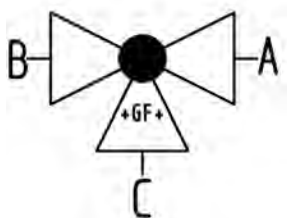


Type 543 3-Way Ball Valve
Horizontal/T-port PROGEF Standard
With fusion sockets metric

d (mm)	EPDM Part No.	USD	FKM Part No.	USD weight (lb)
16	167 543 201		167 543 211	0.353
20	167 543 202		167 543 212	0.362
25	167 543 203		167 543 213	0.520
32	167 543 204		167 543 214	0.787
40	167 543 205		167 543 215	1.343
50	167 543 206		167 543 216	1.980
63	167 543 207		167 543 217	4.094

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 (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	50	110	77	72	36	25	32	45	57	28	8	6	82	41	3/8
20	50	112	77	72	36	25	32	45	57	28	8	6	82	41	1/2
25	58	129	97	85	43	25	39	58	67	32	8	6	97	49	3/4
32	68	146	97	98	49	25	39	58	73	36	8	6	110	55	1
40	84	170	128	118	59	45	54	74	90	45	9	8	132	66	1 1/4
50	97	193	128	135	68	45	54	74	97	51	9	8	151	76	1 1/2
63	124	244	152	176	88	45	66	87	116	65	9	8	188	94	2

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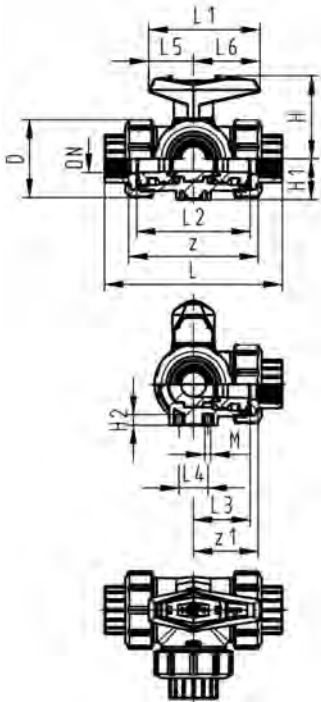
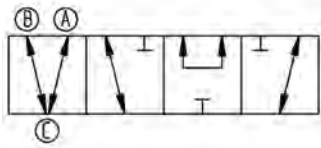
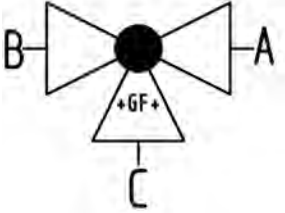


Type 543 3-Way Ball Valve
Horizontal/T-port PROGEF Standard
With butt fusion spigots IR-Plus
SDR11 metric

d (mm)	EPDM Part No.	l	FKM Part No.	weight (lb)
20	167 543 262		167 543 272	0.375
25	167 543 263		167 543 273	0.540
32	167 543 264		167 543 274	0.820
40	167 543 265		167 543 275	1.371
50	167 543 266		167 543 276	2.070
63	167 543 267		167 543 277	4.026

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 (mm)	e (mm)	closest inch (inch)
20	50	146	77	72	36	25	32	45	57	28	8	6	1.9	1/2
25	58	163	97	85	43	25	39	58	67	32	8	6	2.3	3/4
32	68	178	97	98	49	25	39	58	73	36	8	6	2.9	1
40	84	204	128	118	59	45	54	74	90	45	9	8	3.7	1 1/4
50	97	237	128	135	68	45	54	74	97	51	9	8	4.6	1 1/2
63	124	296	152	176	88	45	66	87	116	65	9	8	5.8	2

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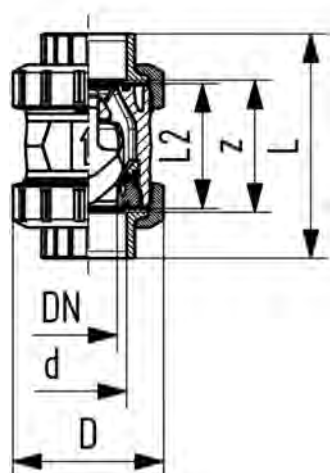
Type 543 3-Way Ball Valve
Horizontal/T-port PROGEF Standard
With threaded sockets NPT reinforced

NPT (inch)	EPDM Part No.	FKM Part No.	weight (lb)
3/8	167 543 361	167 543 371	0.353
1/2	167 543 362	167 543 372	0.362
3/4	167 543 363	167 543 373	0.520
1	167 543 364	167 543 374	0.787
1 1/4	167 543 365	167 543 375	1.343
1 1/2	167 543 366	167 543 376	1.980
2	167 543 367	167 543 377	3.845

NPT (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	80	40
3/4	58	131	97	85	43	25	39	58	67	32	8	6	95	48
1	68	154	97	98	49	25	39	58	73	36	8	6	110	55
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	157	79
2	124	258	152	176	88	45	66	87	116	65	9	8	210	105

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Check valve type 561 PROGEF Standard
With fusion sockets metric

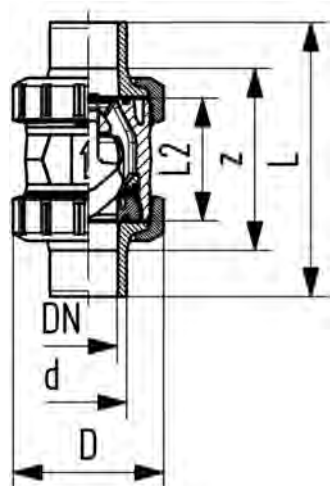


d (mm)	EPDM Part No.	USD	FKM Part No.	USD weight (lb)
16	167 561 001		167 561 011	0.176
20	167 561 002		167 561 012	0.176
25	167 561 003		167 561 013	0.397
32	167 561 004		167 561 014	0.419
40	167 561 005		167 561 015	0.750
50	167 561 006		167 561 016	1.058
63	167 561 007		167 561 017	2.147
75	^ 167 561 008		^ 167 561 018	5.093
90	^ 167 561 009		^ 167 561 019	7.893
110	^ 167 561 010		^ 167 561 020	13.073

d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	3/8
20	50	95	56	66	1/2
25	58	109	65	77	3/4
32	68	119	71	83	1
40	84	135	85	99	1 1/4
50	97	147	89	105	1 1/2
63	124	168	101	117	2
75	166	233	136	167	2 1/2
90	200	254	141	180	3
110	238	301	164	215	4

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



d (mm)	EPDM Part No.	FKM Part No.	USD weight (lb)
20	167 561 082	167 561 092	0.176
25	167 561 083	167 561 093	0.397
32	167 561 084	167 561 094	0.419
40	167 561 085	167 561 095	0.750
50	167 561 086	167 561 096	1.080
63	167 561 087	167 561 097	2.264
75	^ 167 561 088	^ 167 561 098	5.203
90	^ 167 561 089	^ 167 561 099	8.113
110	^ 167 561 090	^ 167 561 100	12.853

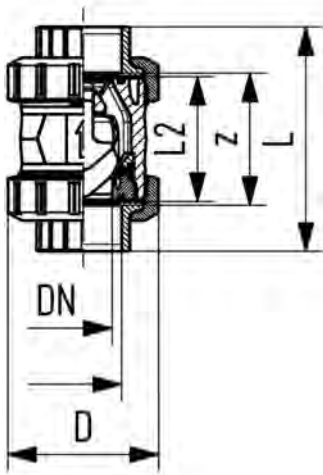
d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	50	130	56	1.9	1/2
25	58	143	65	2.3	3/4
32	68	150	71	2.9	1
40	84	171	85	3.7	1 1/4
50	97	191	89	4.6	1 1/2
63	124	220	101	5.8	2
75	166	266	136	6.8	2 1/2
90	200	264	141	8.2	3
110	238	301	164	10.0	4

A

Check valve type 561 PROGEF Standard
With threaded sockets reinforced NPT



NPT (inch)	EPDM Part No.	FKM Part No.	D weight (lb)	D (mm)	L (mm)	L2 (mm)	z (mm)
3/8	167 561 101	167 561 111	0.176	50	96	56	71
1/2	167 561 102	167 561 112	0.198	50	99	56	64
3/4	167 561 103	167 561 113	0.397	58	111	65	76
1	167 561 104	167 561 114	0.463	68	127	71	83
1 1/4	167 561 105	167 561 115	0.794	84	146	85	100
1 1/2	167 561 106	167 561 116	1.124	97	157	89	111
2	167 561 107	167 561 117	2.028	124	183	101	134



A

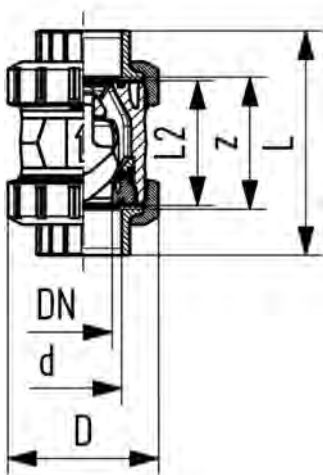
Check valve type 561
PROGEF Plus silicone free
With fusion sockets metric



Model:

- Sealing at a minimum water column of 2 m
- 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

d (mm)	EPDM Part No.	FKM Part No.	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	*167 561 201	*167 561 211	50	93	56	67	3/8
20	*167 561 202	*167 561 212	50	95	56	66	1/2
25	*167 561 203	*167 561 213	58	109	65	77	3/4
32	*167 561 204	*167 561 214	68	119	71	83	1
40	*167 561 205	*167 561 215	84	135	85	99	1 1/4
50	*167 561 206	*167 561 216	97	147	89	105	1 1/2
63	*167 561 207	*167 561 217	124	168	101	117	2
75	*167 561 208	*167 561 218	166	233	136	167	2 1/2
90	*167 561 209	*167 561 219	200	254	141	180	3
110	*167 561 210	*167 561 220	238	301	164	215	4



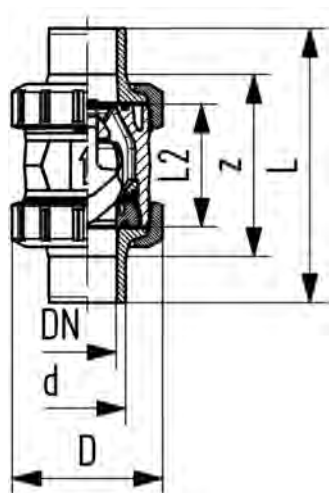
A



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

Model:

- Sealing at a minimum water column of 2 m
- 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



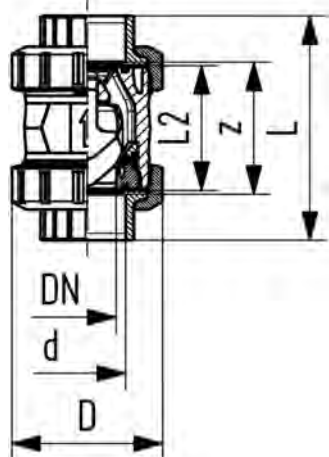
d (mm)	EPDM Part No.	FKM Part No.	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	* 167 561 242	* 167 561 252	50	130	56	1.9	½
25	* 167 561 243	* 167 561 253	58	143	65	2.3	¾
32	* 167 561 244	* 167 561 254	68	150	71	3.0	1
40	* 167 561 245	* 167 561 255	84	171	85	3.7	1 ¼
50	* 167 561 246	* 167 561 256	97	191	89	4.6	1 ½
63	* 167 561 247	* 167 561 257	124	220	101	5.8	2
75	* 167 561 248	* 167 561 258	166	266	136	6.8	2 ½
90	* 167 561 249	* 167 561 259	200	264	141	8.2	3
110	* 167 561 250	* 167 561 260	238	301	164	10.0	4

A



Check valve type 562 PROGEF Standard
With fusion sockets metric

d (mm)	EPDM Part No.	FKM Part No.	weight (lb)
16	167 562 001	167 562 011	0.176
20	167 562 002	167 562 012	0.176
25	167 562 003	167 562 013	0.397
32	167 562 004	167 562 014	0.419
40	167 562 005	167 562 015	0.750
50	167 562 006	167 562 016	1.058
63	167 562 007	167 562 017	1.940
75	^ 167 562 008	^ 167 562 018	5.093
90	^ 167 562 009	^ 167 562 019	7.893
110	^ 167 562 010	^ 167 562 020	13.073



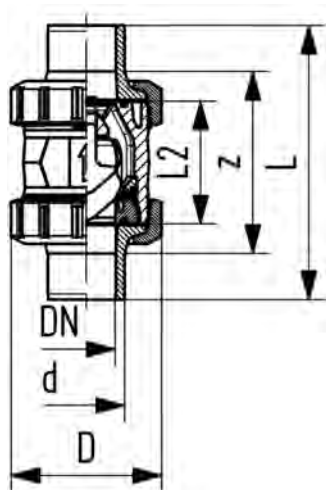
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	¾
20	50	95	56	66	½
25	58	109	65	77	¾
32	68	119	71	83	1
40	84	135	85	99	1 ¼
50	97	147	89	105	1 ½
63	124	168	101	117	2
75	166	233	136	167	2 ½
90	200	254	141	180	3
110	238	301	164	215	4

A

Check valve type 562 PROGEF Standard With butt fusion spigots metric



d (mm)	EPDM Part No.	USD	FKM Part No.	weight (lb)
20	167 562 082		167 562 092	0.176
25	167 562 083		167 562 093	0.397
32	167 562 084		167 562 094	0.419
40	167 562 085		167 562 095	0.750
50	167 562 086		167 562 096	1.080
63	167 562 087		167 562 097	2.050
75	^ 167 562 088		^ 167 562 098	5.203
90	^ 167 562 089		^ 167 562 099	8.113
110	^ 167 562 090		^ 167 562 100	12.853



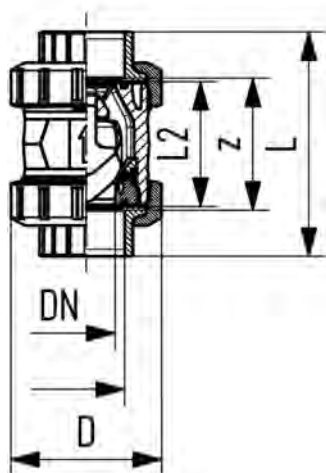
d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	50	130	56	1.9	1/2
25	58	143	65	2.3	3/4
32	68	150	71	2.9	1
40	84	171	85	3.7	1 1/4
50	97	191	89	4.6	1 1/2
63	124	220	101	5.8	2
75	166	266	136	6.8	2 1/2
90	200	264	141	8.2	3
110	238	301	164	10.0	4

A

Check valve type 562 PROGEF Standard With threaded sockets reinforced NPT



NPT (inch)	EPDM Part No.	USD	FKM Part No.	USD weight (lb)	D (mm)	L (mm)	L2 (mm)	z (mm)
3/8	167 562 101		167 562 111	0.176	50	96	56	71
1/2	167 562 102		167 562 112	0.198	50	99	56	64
3/4	167 562 103		167 562 113	0.397	58	111	65	76
1	167 562 104		167 562 114	0.463	68	127	71	83
1 1/4	167 562 105		167 562 115	0.794	84	146	85	100
1 1/2	167 562 106		167 562 116	1.124	97	157	89	111
2	167 562 107		167 562 117	2.028	124	183	101	134



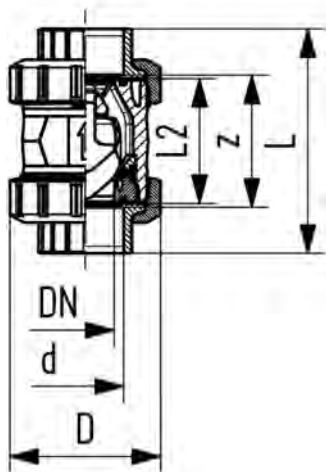
A



Check valve type 562 PROGEF Standard silicone free With fusion sockets metric

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1m
- 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
- Compact installation length, same as ball valve type 546



d (mm)	EPDM Part No.	FKM Part No.	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	* 167 562 201	* 167 562 211	50	93	56	67	¾
20	* 167 562 202	* 167 562 212	50	95	56	66	½
25	* 167 562 203	* 167 562 213	58	109	65	77	¾
32	* 167 562 204	* 167 562 214	68	119	71	83	1
40	* 167 562 205	* 167 562 215	84	135	85	99	1 ¼
50	* 167 562 206	* 167 562 216	97	147	89	105	1 ½
63	* 167 562 207	* 167 562 217	124	168	101	117	2
75	* 167 562 208	* 167 562 218	166	233	136	167	2 ½
90	* 167 562 209	* 167 562 219	200	254	141	180	3
110	* 167 562 210	* 167 562 220	238	301	164	215	4

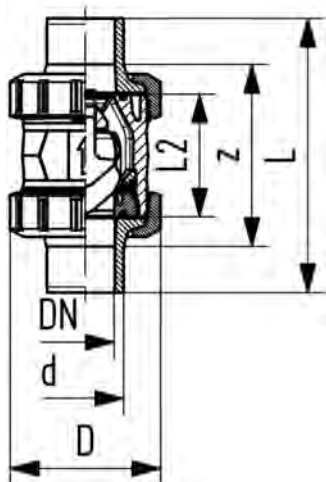
A



Check valve type 562 PROGEF Standard silicone free With butt fusion spigots metric

Model:

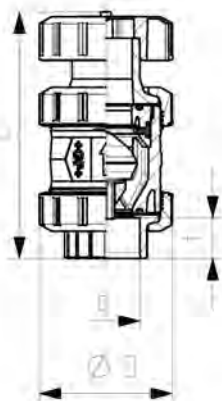
- For horizontal or vertical installation
- Sealing at a minimum water column of 1m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546



d (mm)	EPDM Part No.	FKM Part No.	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	* 167 562 242	* 167 562 252	50	130	56	1.9	¾
25	* 167 562 243	* 167 562 253	58	143	65	2.3	¾
32	* 167 562 244	* 167 562 254	68	150	71	3.0	1
40	* 167 562 245	* 167 562 255	84	171	85	3.7	1 ¼
50	* 167 562 246	* 167 562 256	97	191	89	4.6	1 ½
63	* 167 562 247	* 167 562 257	124	220	101	5.8	2
75	* 167 562 248	* 167 562 258	166	266	136	8.2	2 ½
90	* 167 562 249	* 167 562 259	200	264	141	9.9	3
110	* 167 562 250	* 167 562 260	238	301	164	12.0	4

A

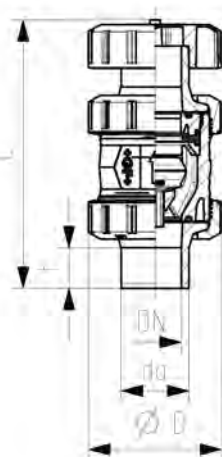
Type 591 PROGEF Standard
Ventilating and bleed valve
With fusion sockets metric



d (mm)	EPDM Part No.	FKM Part No.	USD weight (lb)	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	^ 167 591 001	^ 167 591 011	0.214	50	126	14	$\frac{3}{8}$
20	167 591 002	167 591 012	0.214	50	127	15	$\frac{1}{2}$
25	^ 167 591 003	^ 167 591 013	0.448	58	142	16	$\frac{3}{4}$
32	167 591 004	167 591 014	0.494	68	153	18	1
40	^ 167 591 005	^ 167 591 015	0.864	84	171	19	1 $\frac{1}{4}$
50	167 591 006	167 591 016	1.210	97	190	21	1 $\frac{1}{2}$
63	167 591 007	167 591 017	2.174	124	219	28	2
75	* 167 591 008	* 167 591 018	5.093	166	256	29	2 $\frac{1}{2}$
90	* 167 591 009	* 167 591 019	7.893	200	275	33	3
110	* 167 591 010	* 167 591 020	13.073	238	318	39	4

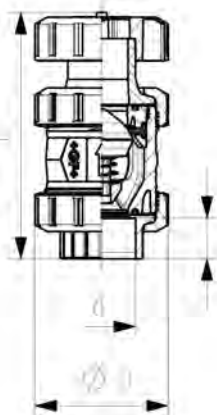
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Type 591 PROGEF Standard
Ventilating and bleed valve
With socket fusion spigots metric



d (mm)	EPDM Part No.	FKM Part No.	weight (lb)	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	^ 167 591 041	^ 167 591 051	0.214	50	135	13	$\frac{3}{8}$
20	167 591 042	167 591 052	0.236	50	140	14	$\frac{1}{2}$
25	^ 167 591 043	^ 167 591 053	0.470	58	157	16	$\frac{3}{4}$
32	167 591 044	167 591 054	0.516	68	168	18	1
40	^ 167 591 045	^ 167 591 055	0.886	84	189	20	1 $\frac{1}{4}$
50	167 591 046	167 591 056	1.276	97	211	23	1 $\frac{1}{2}$
63	167 591 047	167 591 057	2.328	124	245	27	2
75	* 167 591 048	* 167 591 058	5.225	166	280	48	2 $\frac{1}{2}$
90	* 167 591 049	* 167 591 059	8.267	200	296	49	3
110	* 167 591 050	* 167 591 060	13.184	238	336	54	4

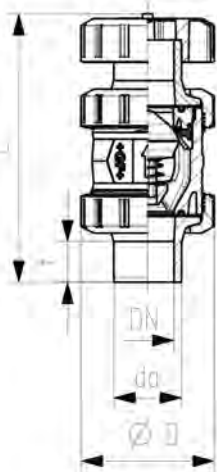
A



Type 595 PROGEF Standard
Ventilating valve
With fusion sockets metric

d (mm)	EPDM Part No.	USD	FKM Part No.	USD weight (lb)	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	^ 167 595 001		^ 167 595 011	0.214	50	126	14	3/8
20	167 595 002		167 595 012	0.214	50	127	15	1/2
25	^ 167 595 003		^ 167 595 013	0.448	58	142	16	3/4
32	167 595 004		167 595 014	0.494	68	153	18	1
40	^ 167 595 005		^ 167 595 015	0.864	84	171	19	1 1/4
50	167 595 006		167 595 016	1.210	97	190	21	1 1/2
63	167 595 007		167 595 017	2.174	124	219	28	2
75	* 167 595 008		* 167 595 018	5.093	166	256	29	2 1/2
90	* 167 595 009		* 167 595 019	7.893	200	275	33	3
110	* 167 595 010		* 167 595 020	13.073	238	318	39	4

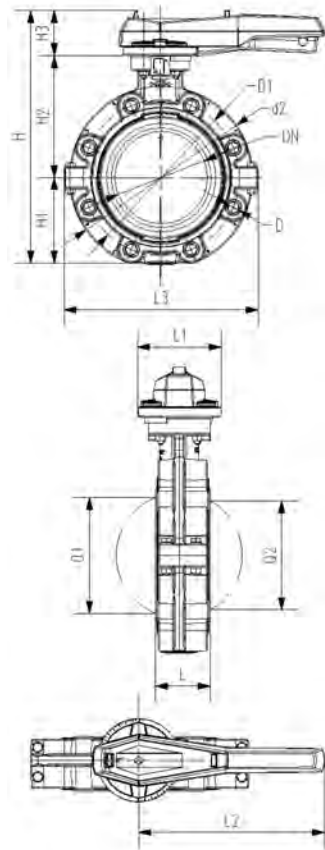
A



Type 595 PROGEF Standard
Ventilating valve
With socket fusion spigots metric

d (mm)	EPDM Part No.	USD	FKM Part No.	USD weight (lb)	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	^ 167 595 041		^ 167 595 051	0.214	50	135	13	3/8
20	167 595 042		167 595 052	0.236	50	140	14	1/2
25	^ 167 595 043		^ 167 595 053	0.470	58	157	16	3/4
32	167 595 044		167 595 054	0.516	68	168	18	1
40	^ 167 595 045		^ 167 595 055	0.886	84	189	20	1 1/4
50	167 595 046		167 595 056	1.276	97	211	23	1 1/2
63	167 595 047		167 595 057	2.328	124	245	27	2
75	* 167 595 048		* 167 595 058	5.225	166	280	48	2 1/2
90	* 167 595 049		* 167 595 059	8.267	200	296	49	3
110	* 167 595 050		* 167 595 060	13.184	238	336	54	4

A



PROGEF Standard
Lugstyle butterfly valve type 578
Hand lever with ratchet settings

Model:

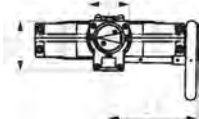
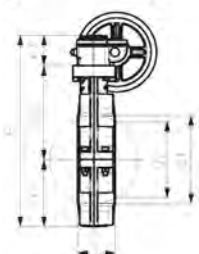
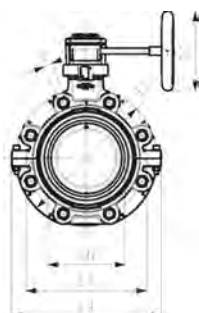
- Housing material: PP-GF30 with 316SS lug inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Optional accessory: Integrated position feedback with limit switches (sold separately)

Size (inch)	DN (mm)	PN (bar)	Cv-value (l/min)	EPDM Part No.	USD	FKM Part No.	weight (kg)
2	50	10	1470	167 578 102		167 578 122	1.800
2 ½	65	10	2200	167 578 103		167 578 123	1.895
3	80	10	3000	167 578 104		167 578 124	2.251
4	100	10	6500	167 578 105		167 578 125	3.146
5	125	10	11500	167 578 106		167 578 126	4.660
6	150	10	16600	167 578 107		167 578 127	6.430
8	200	10	39600	167 578 108		167 578 128	8.625
10	250	8	55200	167 578 109		167 578 129	19.528
12	300	8	80000	167 578 110		167 578 130	26.106

Size (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	160	UNC 5/8	120.6	265	77	134	54	45	106	205	165	40	
2 ½	180	UNC 5/8	139.7	277	83	140	54	46	106	205	182	54	35
3	195	UNC 5/8	152.4	289	89	146	54	49	106	205	210	67	50
4	226	UNC 5/8	190.5	326	106	167	55	56	106	255	240	88	74
5	258	UNC 3/4	215.9	357	121	181	55	64	106	255	272	113	97
6	284	UNC 3/4	241.3	377	133	189	55	72	106	255	300	139	123
8	341	UNC 3/4	298.4	436	159	210	67	73	140	408	360	178	169
10	412	UNC 7/8	362.0	536	205	264	67	113	140	408	440	210	207
12	482	UNC 7/8	431.8	586	234	285	67	113	140	408	510	256	253



PROGEF Standard
Lugstyle butterfly valve type 578
Reduction gear with handwheel

Model:

- Housing material: PP-GF30 with 316SS lug inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

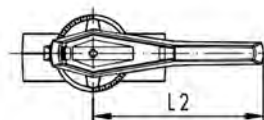
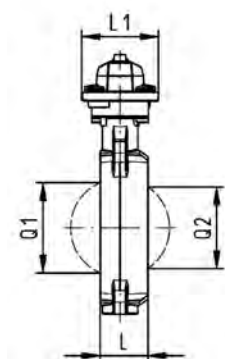
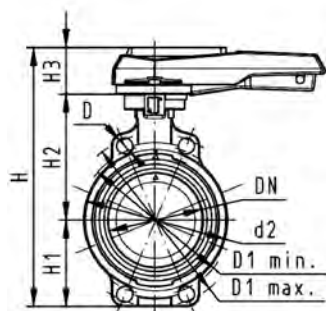
- Optional accessory: Integrated position feedback with limit switches (sold separately)

Size (inch)	DN (mm)	PN (bar)	Cv-value (l/min)	EPDM Part No.	FKM Part No.	weight (kg)
2	50	10	1470	167 578 142	167 578 162	3.447
2 ½	65	10	2200	167 578 143	167 578 163	3.585
3	80	10	3000	167 578 144	167 578 164	3.929
4	100	10	6500	167 578 145	167 578 165	4.834
5	125	10	11500	167 578 146	167 578 166	6.348
6	150	10	16600	167 578 147	167 578 167	8.109
8	200	10	39600	167 578 148	167 578 168	9.353
10	250	8	55200	167 578 149	167 578 169	21.210
12	300	8	80000	167 578 150	167 578 170	27.746

Size (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	160	UNC 5/8	120.6	160	273	77	134	62	45	78	112	179	165	40
2 ½	80	UNC 5/8	139.7	160	285	83	140	62	46	78	112	179	182	54
3	195	UNC 5/8	152.4	160	297	89	146	62	49	78	112	179	210	67
4	226	UNC 5/8	190.5	160	335	106	167	62	56	78	112	179	240	88
5	258	UNC 3/4	215.9	160	364	121	181	62	64	78	112	179	272	113
6	284	UNC 3/4	241.3	160	384	133	189	62	72	78	112	179	300	139
8	341	UNC 3/4	298.4	160	431	159	210	62	73	78	112	179	360	178
10	412	UNC 7/8	362.0	200	555	205	264	69	113	97	130	198	440	210
12	482	UNC 7/8	431.8	200	605	234	285	69	113	97	130	198	510	256

Size (inch)	Q2 (mm)
2	
2 ½	35
3	50
4	74
5	97
6	123
8	169
10	207
12	253

A

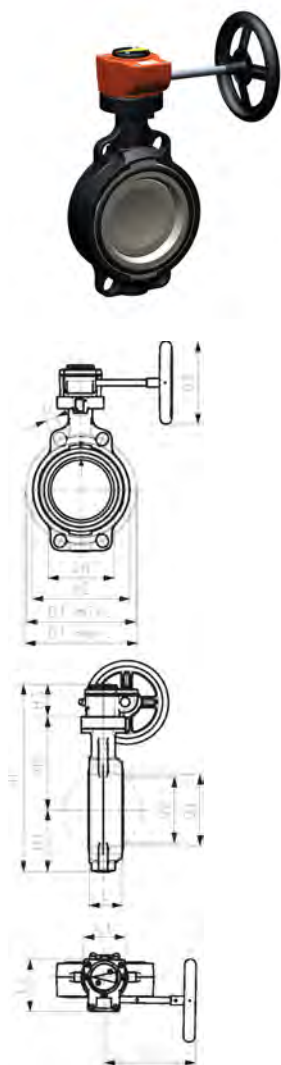


Type 567 Butterfly valve PROGEF Standard Hand lever with ratchet settings

d (mm)	Size (inch)	EPDM Part No.	FKM Part No.	weight (kg)
63	2	167 567 002	167 567 022	1.627
75	2 ½	167 567 003	167 567 023	1.061
90	3	167 567 004	167 567 024	1.404
110	4	167 567 005	167 567 025	1.998
140	5	167 567 006	167 567 026	2.429
160	6	167 567 007	167 567 027	3.246
225	8	167 567 008	167 567 028	5.609
280	10	167 567 009	167 567 029	11.841
315	12	167 567 010	167 567 030	13.245

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	125	104	264	77	134	54	45	106	205	40	
75	19	140	145	115	277	83	140	54	46	106	205	54	35
90	19	150	160	131	289	89	146	54	49	106	205	67	50
110	19	175	191	161	325	104	167	55	56	106	255	88	74
140	23	210	216	187	352	117	181	55	64	106	255	113	97
160	24	241	241	215	373	130	189	55	72	106	255	139	123
225	23	290	295	267	435	158	210	67	73	140	408	178	169
280	25	353	362	329	554	205	264	85	113	149	408	210	207
315	25	400	432	379	598	228	285	85	113	149	408	256	253

Type 567 Butterfly valve PROGEF Standard
Reduction gear with handwheel



Size (inch)	EPDM Part No.	FKM Part No.	weight (lb)
2	167 567 042	167 567 062	6.629
2 ½	167 567 043	167 567 063	6.832
3	167 567 044	167 567 064	7.119
4	167 567 045	167 567 065	8.247
5	167 567 046	167 567 066	9.354
6	167 567 047	167 567 067	11.107
8	167 567 048	167 567 068	14.416
10	167 567 049	167 567 069	28.823
12	167 567 050	167 567 070	35.419
14	* 167 567 051	* 167 567 071	88.185
16	* 167 567 052	* 167 567 072	110.231
18	* 167 567 053	* 167 567 073	154.324
20	* 167 567 054	* 167 567 074	198.416
24	* 167 567 055	* 167 567 075	275.578

D (inch)	D1 min. (inch)	D1 max. (inch)	d2 (inch)	D3 (inch)	H (inch)	H1 (inch)	H2 (inch)	H3 (inch)	L (inch)	L1 (inch)	L2 (inch)	L3 (inch)	Q1 (inch)	Q2 (inch)
1	5	5	4	6	11	3	5	2	2	3	4	7	2	
1	6	6	5	6	11	3	6	2	2	3	4	7	2	1
1	6	6	5	6	12	4	6	2	2	3	4	7	3	2
1	7	8	6	6	13	4	7	2	2	3	4	7	3	3
1	8	9	7	6	14	5	7	2	3	3	4	7	4	4
1	9	9	8	6	15	5	7	2	3	3	4	7	5	5
1	11	12	11	6	17	6	8	2	3	3	4	7	7	7
1	14	14	13	8	22	8	10	3	4	4	5	8	8	8
1	16	17	15	8	24	9	11	3	4	4	5	8	10	10
1	18	19	21	8		11	16	3	5	7	7	9	13	12
1	20	21	23	8		12	17	3	7	7	8	9	14	14
1	22	23	25	10		13	20	3	7	9	8	9	15	15
1	24	25	28	14		14	22	4	7	9	9	10	17	17
1	29	30	32	14		17	24	4	8	9	10	10	21	21



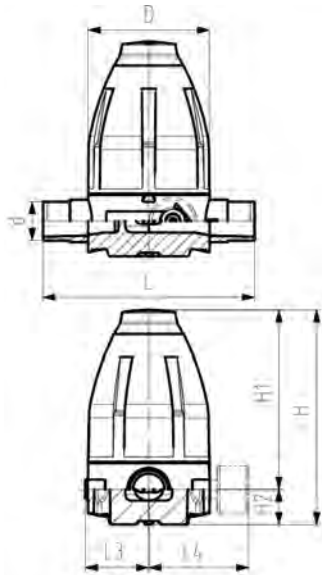
Type 582 Pressure Reducing Valve PROGEF Standard PP Butt fusion spigots SDR11 metric Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	PN (bar)	O-rings EPDM Part No.	weight (kg)	O-rings FKM Part No.
25	20	10	167 582 003	1.250	167 582 013
20	15	10	167 582 002	0.560	167 582 012
32	25	10	167 582 004	1.250	167 582 014
40	32	10	167 582 005	3.450	167 582 015
50	40	10	167 582 006	3.460	167 582 016
63	50	10	167 582 007	3.520	167 582 017

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
25	100	177	148	29	14	190	53	M6	3/4
20	79	132	111	21	14	150	42	M6	1/2
32	100	177	148	29	14	190	53	M6	1
40	147	251	207	44	21	240	76	M8	1 1/4
50	147	251	207	44	21	240	76	M8	1 1/2
63	147	251	207	44	21	260	76	M8	2



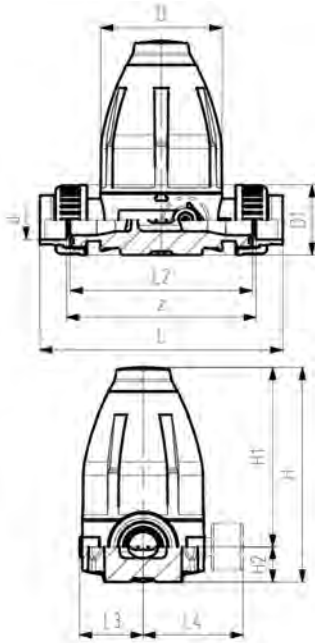
Type 582 Pressure Reducing Valve PROGEF Standard PP Unions with fusion sockets metric Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	PN (bar)	O-rings EPDM Part No.	USD weight (kg)	O-rings FKM Part No.
20	15	10	167 582 102	0.600	167 582 112
25	20	10	167 582 103	1.300	167 582 113
32	25	10	167 582 104	1.320	167 582 114
40	32	10	167 582 105	3.530	167 582 115
50	40	10	167 582 106	3.650	167 582 116
63	50	10	167 582 107	3.800	167 582 117

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
20	79	48	132	111	21	12	158	120	42	M6	126	½
25	100	58	177	148	29	14	192	150	53	M6	156	¾
32	100	65	177	148	29	14	196	150	53	M6	156	1
40	147	77	251	207	44	21	255	205	76	M8	211	1 ¼
50	147	84	251	207	44	21	261	205	76	M8	211	1 ½
63	147	111	251	207	44	21	269	205	76	M8	211	2



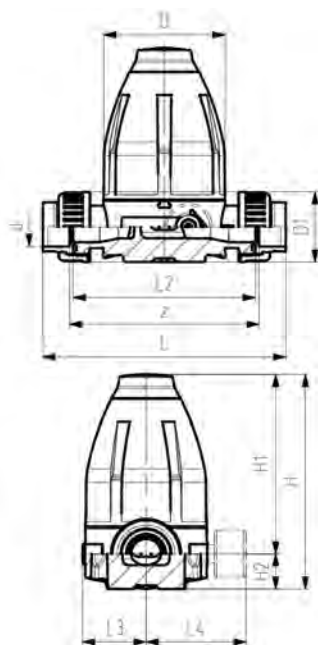
Type 582 Pressure Reducing Valve PROGEF Standard PP Unions with butt fusion spigots SDR11 metric Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	PN (bar)	O-rings EPDM Part No.	weight (kg)	O-rings FKM Part No.
20	15	10	167 582 502	0.640	167 582 512
25	20	10	167 582 503	1.350	167 582 513
32	25	10	167 582 504	1.370	167 582 514
40	32	10	167 582 505	3.660	167 582 515
50	40	10	167 582 506	3.710	167 582 516
63	50	10	167 582 507	3.860	167 582 517

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
20	79	48	132	111	21	12	158	120	42	M6	126	½
25	100	58	177	148	29	14	192	150	53	M6	156	¾
32	100	65	177	148	29	14	196	150	53	M6	156	1
40	147	77	251	207	44	21	255	205	76	M8	211	1 ¼
50	147	84	251	207	44	21	261	205	76	M8	211	1 ½
63	147	111	251	207	44	21	269	205	76	M8	211	2



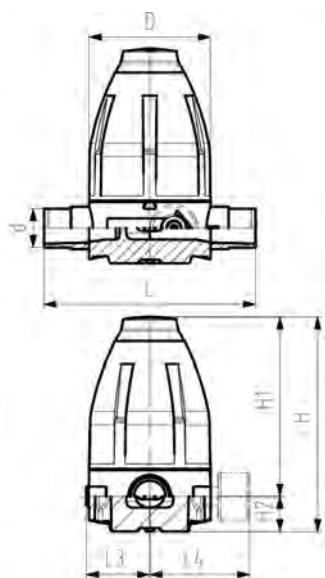
Type 586 Pressure Retaining Valve PROGEF Standard PP Butt fusion spigots SDR11 metric **Without manometer**

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	PN (bar)	O-rings EPDM Part No.	USD weight (kg)	O-rings FKM Part No.
20	15	10	167 586 002	0.550	167 586 012
25	20	10	167 586 003	1.260	167 586 013
32	25	10	167 586 004	1.260	167 586 014
40	32	10	167 586 005	3.460	167 586 015
50	40	10	167 586 006	3.470	167 586 016
63	50	10	167 586 007	3.540	167 586 017

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
20	79	132	111	21	14	150	42	M6	½
25	100	177	148	29	14	190	53	M6	¾
32	100	177	148	29	14	190	53	M6	1
40	147	251	207	44	21	240	76	M8	1 ¼
50	147	251	207	44	21	240	76	M8	1 ½
63	147	251	207	44	21	260	76	M8	2



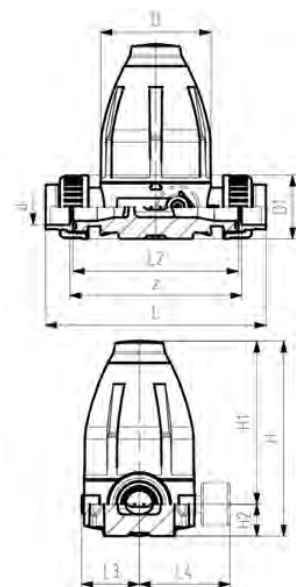
Type 586 Pressure Retaining Valve PROGEF Standard PP Union with fusion sockets metric **Without manometer**

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d (mm)	DN (mm)	PN (bar)	O-rings EPDM Part No.	USD weight (kg)	O-rings FKM Part No.
20	15	10	167 586 102	0.590	167 586 112
25	20	10	167 586 103	1.310	167 586 113
32	25	10	167 586 104	1.330	167 586 114
40	32	10	167 586 105	3.610	167 586 115
50	40	10	167 586 106	3.660	167 586 116
63	50	10	167 586 107	3.810	167 586 117

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
20	79	48	132	111	21	12	158	120	42	M6	126	½
25	100	58	177	148	29	14	192	150	53	M6	156	¾
32	100	65	177	148	29	14	196	150	53	M6	156	1
40	147	77	251	207	44	21	255	205	76	M8	211	1 ¼
50	147	84	251	207	44	21	261	205	76	M8	211	1 ½
63	147	111	251	207	44	21	269	205	76	M8	211	2



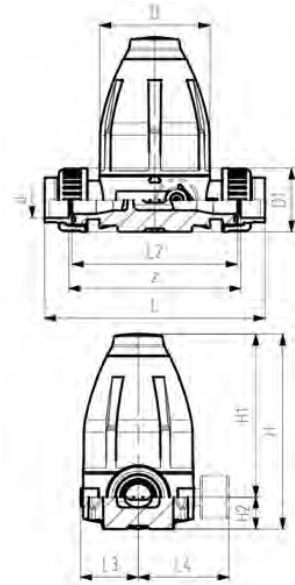
Type 586 Pressure Retaining Valve PROGEF Standard PP Union with butt fusion spigots SDR11 metric Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

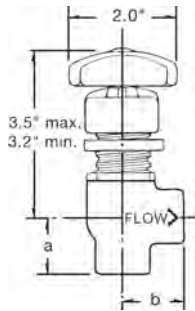
Manometer on request



d (mm)	DN (mm)	PN (bar)	O-rings EPDM Part No.	USD	weight (kg)	O-rings FKM Part No.
20	15	10	167 586 502		0.630	167 586 512
25	20	10	167 586 503		1.350	167 586 513
32	25	10	167 586 504		1.370	167 586 514
40	32	10	167 586 505		3.650	167 586 515
50	40	10	167 586 506		3.700	167 586 516
63	50	10	167 586 507		3.850	167 586 517

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
20	79	48	132	111	21	12	228	120	42	M6	126	1/2
25	100	58	177	148	29	14	264	150	53	M6	156	3/4
32	100	65	177	148	29	14	270	150	53	M6	156	1
40	147	77	251	207	44	21	331	205	76	M8	211	1 1/4
50	147	84	251	207	44	21	337	205	76	M8	211	1 1/2
63	147	111	251	207	44	21	343	205	76	M8	211	2

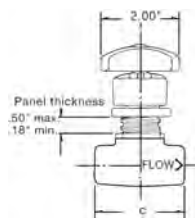
A



Type 522 Angle Body Needle Valve, PROGEF Standard

Size (inch)	Part No.	USD	a (mm)	b (mm)
1/2	157 522 581		28	31

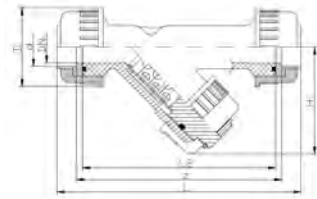
A



Type 522 Globe Body Needle Valve, PROGEF Standard

Size (inch)	Part No.	USD	weight (lb)	c (mm)
1/2	157 522 556		0.276	65

B



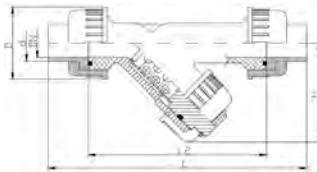
Line Strainer Type 305 PROGEF Standard Socket fusion

Model:

- Material: PP-H
- Protects valves, pumps, etc. from becoming damaged
- Easy dismantling to clean or replace the screen
- Screen perforation 0.5 mm
- For easy installation and removal
- Overall length according to EN 558

d (mm)	EPDM Part No.	USD	FKM Part No.	USD	D (mm)	H (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
20	* 167 305 000		* 167 305 049		52	75	168	130	140	½
25	* 167 305 050		* 167 305 099		62	80	192	150	160	¾
32	* 167 305 100		* 167 305 149		68	90	206	160	170	1
40	* 167 305 150		* 167 305 199		85	110	230	180	190	1 ¼
50	* 167 305 200		* 167 305 249		85	125	256	200	210	1 ½
63	* 167 305 250		* 167 305 299		102	150	294	230	240	2

B



Line Strainer Type 305 PROGEF Standard IR Plus fusion

Model:

- Material: PP-H
- Protects valves, pumps, etc. from becoming damaged
- Easy dismantling to clean or replace the screen
- Screen perforation 0.5 mm
- For easy installation and removal
- Overall length according to EN 558

d (mm)	EPDM Part No.	USD	FKM Part No.	USD	D (mm)	H (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	* 167 305 300		* 167 305 349		52	75	238	130	1.9	½
25	* 167 305 350		* 167 305 399		62	80	264	150	2.3	¾
32	* 167 305 400		* 167 305 449		68	90	280	160	3.0	1
40	* 167 305 450		* 167 305 499		85	110	306	180	3.7	1 ¼
50	* 167 305 500		* 167 305 549		85	125	332	200	4.6	1 ½
63	* 167 305 550		* 167 305 599		102	150	368	230	5.8	2

A



Stainless Steel Screen for Type 306 30 mesh, 1/64" hole

Model:

- Stainless Steel A4 Quality (AISI 316)
- For line strainers Type 306

d (mm)	Part No.	USD	D (mm)	L (mm)	closest inch (inch)
20	^ 161 486 100		14	39	½
25	^ 161 486 101		18	48	¾
32	^ 161 486 102		24	60	1
40	^ 161 486 103		30	71	1 ¼
50	^ 161 486 104		38	87	1 ½
63	^ 161 486 105		48	106	2
75	161 486 106		61	100	2 ½
90	^ 161 486 107		73	118	3