GF Piping Systems

Product Range International 2017

PP/PE Plastic Piping Systems

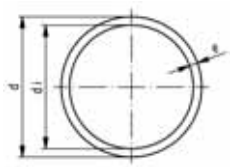
PROGEF Standard

– Pipes
– Socket Fusion System
– Butt Fusion System

PP-H Pipes

67 48 07

PROGEF Standard pipe S5/SDR11 (PN10)



Model:

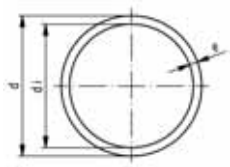
- Material: PP-H
- Dimension: DIN 8077
- Colour: RAL 7032 pebble grey
- Length: Lengths of 5 m

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

d [mm]	PN	Code	kg/m	e [mm]	di [mm]
16	10	**167 480 710**	0.080	1.8	12.4
* 20	10	**167 480 711**	0.107	1.9	16.2
* 25	10	**167 480 712**	0.164	2.3	20.4
32	10	**167 480 713**	0.261	2.9	26.2
40	10	**167 480 714**	0.412	3.7	32.6
50	10	**167 480 715**	0.638	4.6	40.8
63	10	**167 480 716**	1.010	5.8	51.4
75	10	**167 480 717**	1.410	6.8	61.4
90	10	**167 480 718**	2.030	8.2	73.6
110	10	**167 480 719**	3.010	10.0	90.0
125	10	**167 480 720**	3.910	11.4	102.2
140	10	**167 480 721**	4.870	12.7	114.6
160	10	**167 480 722**	6.380	14.6	130.8
180	10	**167 480 723**	8.070	16.4	147.2
200	10	**167 480 724**	9.950	18.2	163.6
225	10	**167 480 725**	12.600	20.5	184.0
250	10	**167 480 726**	15.500	22.7	204.6
280	10	**167 480 727**	19.400	25.4	229.2
315	10	**167 480 728**	24.600	28.6	257.8
355	10	**167 480 729**	31.200	32.2	290.6
400	10	**167 480 730**	39.600	36.3	327.4
450	10	**167 480 731**	50.200	40.9	368.2
500	10	**167 480 732**	63.300	45.4	409.2

67 48 10

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



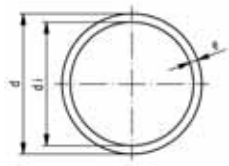
Model:

- Material: Polypropylene (PP-H) DIN 8078
- Dimension: DIN 8077
- Colour: RAL 7032 pebble grey
- Length: Lengths of 5 m
- for socket fusion without stiffeners

d [mm]	PN	Code	kg/m	e [mm]	di [mm]
16	16	**167 481 027**	0.095	2.2	11.6
20	16	**167 481 028**	0.148	2.8	14.4
25	16	**167 481 029**	0.230	3.5	18.0

67 48 06

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



Model:

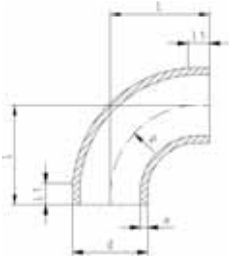
- Material: PP-H
- Dimension: DIN 8077
- Colour: RAL 7032 pebble grey
- Length: Lengths of 5 m

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

Butt fusion fittings

27 01 86

PROGEF Standard bend 90° S5/SDR11



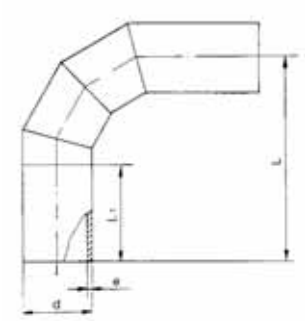
Model:

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

[1] Material: PP-R

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

Bend 90°, PP-H S5/SDR11



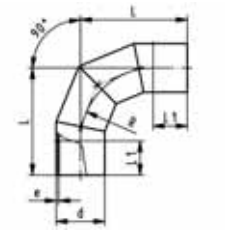
- For IR, butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

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

PROGEF Standard bend 90° S5/SDR11

Model:

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



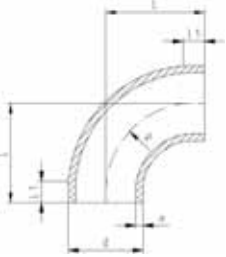
d [mm]	Code	kg	L [mm]	L1 [mm]	R [mm]	e [mm]
450	**727 018 576**	85.300	975	300	675	40,9
500	**727 018 577**	121.940	1100	350	750	45,4

PROGEF Standard bend 90° S8.3/SDR17.6

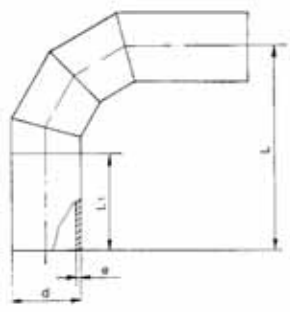
Model:

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

[1] Material: PP-R



d [mm]	FM	Code	kg	L [mm]	L1 [mm]	R [mm]	e [mm]
50	IR	**727 018 635**	0.050	58	21	37	2.9
63	IR	**727 018 636**	0.081	66	21	45	3.6
75	IR	**727 018 637**	0.164	100	20	90	4.3
90	IR	**727 018 638**	0.241	100	20	90	5.1
110	IR	**727 018 639**	0.484	141	25	130	6.3
125	IR	**727 018 440**	0.638	140	15	125	7.1
140	IR	**727 018 441**	1.065	155	15	140	8.0
160	IR	**727 018 442**	1.309	175	15	160	9.1
180	IR	**727 018 443**	2.138	195	15	180	10.2
200	IR	**727 018 444**	2.378	215	15	200	11.4
225	IR	**727 018 445**	3.298	245	20	225	12.8
250	--	**727 018 421**	4.359	256	48	232	14.2
280	--	**727 018 422**	6.696	286	48	262	15.9
315	--	**727 018 423**	8.580	321	48	297	17.9
[1] 355	--	**727 018 549**	13.300	355	15	355	20.1
[1] 400	--	**727 018 550**	18.615	400	25	400	22.7



Bend 90°, PP-H S8/SDR17.6

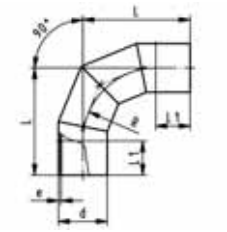
- For IR, butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

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

PROGEF Standard bend 90° S8.3/SDR17.6

Model:

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



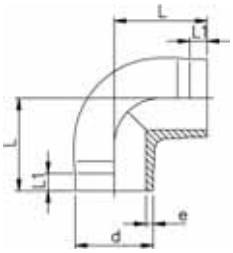
d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	R [mm]
450	**727 018 551**	55.400	975	300	25,5	675
500	**727 018 552**	77.400	1100	350	28,4	750

27 10 85

PROGEF Standard elbow 90° S5/SDR11

Model:

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



d [mm]	FM	Code	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

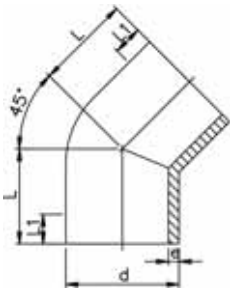
27 15 85

PROGEF Standard elbow 45° S5/SDR11

Model:

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

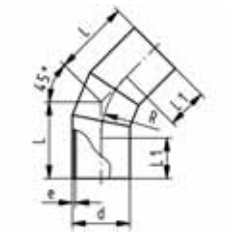
[1] Material: PP-R



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

27 15 85

PROGEF Standard bend 45° S5/SDR11



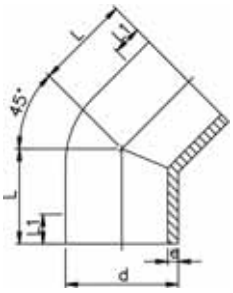
Model:

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

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

27 15 85

PROGEF Standard elbow 45° S8.3/SDR17.6

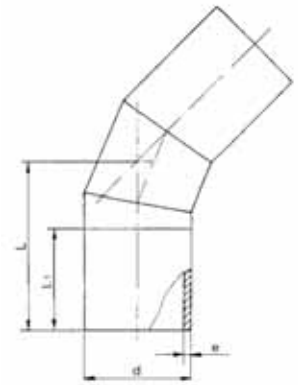


Model:

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

[1] Material: PP-R
*Machined from S5/SDR11

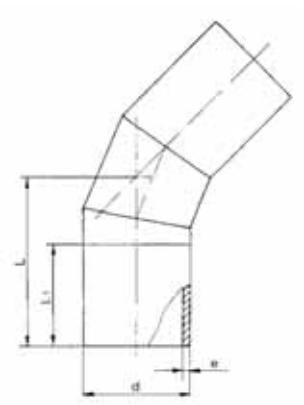
d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
* 50	IR	**727 158 535**	0.042	42	26	2,9
* 63	IR	**727 158 536**	0.081	47	29	3,6
75	IR	**727 158 412**	0.099	49	29	4,3
90	IR	**727 158 413**	0.164	57	34	5,1
110	IR	**727 158 414**	0.286	70	43	6,3
* 125	IR	**727 158 540**	0.570	79	48	7,1
* 140	IR	**727 158 541**	0.721	88	55	8,0
* 160	IR	**727 158 542**	1.107	100	60	9,1
* 200	IR	**727 158 544**	2.225	124	75	11,4
* 225	IR	**727 158 545**	3.194	140	85	12,8
[1] 250	--	**727 158 546**	4.970	225	133	14,2
[1] 280	--	**727 158 547**	7.130	235	143	15,9
[1] 315	--	**727 158 548**	9.600	255	154	17,9



Bend 45°, PP-H S5/SDR11

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

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



Bend 45°, PP-H S8/SDR17.6

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

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

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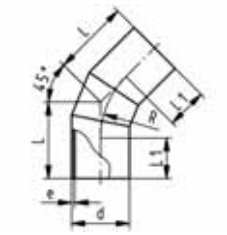
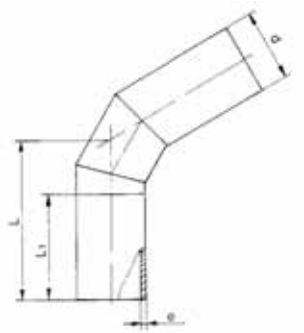
PROGEF Standard bend 45° S8.3/SDR17.6



Model:

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

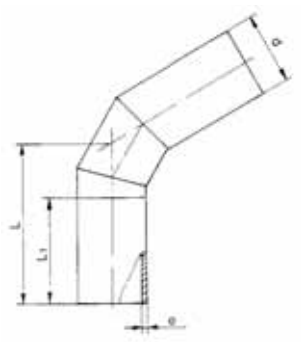
d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	R [mm]
355	**727 158 549**	21.000	520	300	20,1	532.5
400	**727 158 550**	28.100	548	300	22,7	600.0
450	**727 158 551**	37.400	580	300	25,5	675.0
500	**727 158 552**	52.600	665	350	28,4	750.0



Bend 60°, PP-H S5/SDR11

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

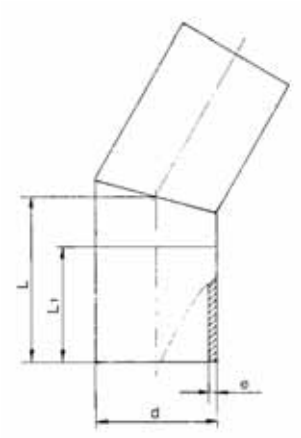
d [mm]	Code	L [mm]	L1 [mm]	e [mm]
110	**700 649 420**	245	150	10,0
125	**700 649 421**	258	150	11,4
140	**700 649 422**	271	150	12,8
160	**700 649 423**	288	150	14,6
180	**700 649 424**	305	150	16,4
200	**700 649 425**	323	150	18,2
225	**700 649 426**	345	150	20,5
250	**700 649 427**	466	250	22,8
280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



Bend 60°, PP-H S8/SDR17.6

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

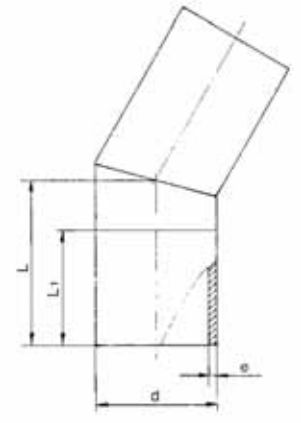
d [mm]	Code	L [mm]	L1 [mm]	e [mm]
110	**700 649 408**	245	150	6,3
125	**700 649 409**	258	150	7,1
140	**700 649 410**	271	150	8,0
160	**700 649 411**	288	150	9,1
180	**700 649 412**	305	150	10,2
200	**700 649 413**	323	150	11,4
225	**700 649 414**	345	150	12,8
250	**700 649 415**	466	250	14,2
280	**700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



Bend 30°, PP-H S5/SDR11

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

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



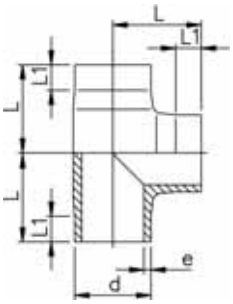
Bend 30°, PP-H S8/SDR17.6

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

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

27 20 85

PROGEF Standard tee 90° equal S5/SDR11



Model:

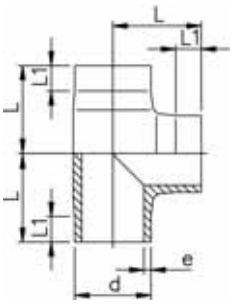
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

[1] Material: PP-R

d [mm]	FM	Code	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	22	3.7
50	IR	**727 208 510**	0.105	58	22	4.6
63	IR	**727 208 511**	0.186	66	21	5.8
75	IR	**727 208 512**	0.293	75	20	6.8
90	IR	**727 208 513**	0.521	90	20	8.2
110	IR	**727 208 514**	0.928	110	20	10.0
125	IR	**727 208 515**	1.347	125	25	11.4
140	IR	**727 208 516**	1.923	140	28	12.7
160	IR	**727 208 517**	2.844	160	28	14.6
180	IR	**727 208 568**	4.844	194	74	16.4
200	IR	**727 208 519**	5.579	200	35	18.2
225	IR	**727 208 520**	7.812	220	35	20.5
250	--	**727 208 571**	12.380	276	92	22.7
280	--	**727 208 572**	17.735	318	110	25.4
315	--	**727 208 573**	18.214	353	118	28.6
[1] 355	--	**727 208 574**	31.100	345	103	32.2
[1] 400	--	**727 208 575**	38.000	360	105	36.3
450	--	**727 208 576**	58.000	419	135	40.9
500	--	**727 208 577**	73.000	465	160	45.4

27 20 85

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

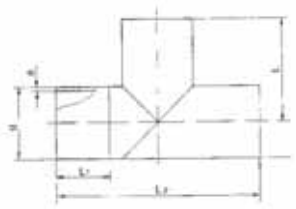


Model:

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

[1] Material: PP-R

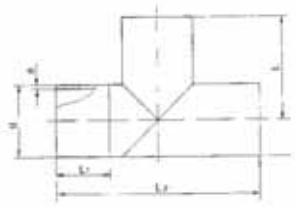
d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
50	IR	**727 208 535**	0.079	59	26	2,9
63	IR	**727 208 536**	0.178	73	31	3,6
75	IR	**727 208 412**	0.212	75	20	4,3
90	IR	**727 208 413**	2.200	90	20	5,1
110	IR	**727 208 414**	0.705	110	20	6,3
125	IR	**727 208 540**	1.077	125	30	7,1
140	IR	**727 208 541**	1.478	140	35	8,0
160	IR	**727 208 542**	2.264	160	43	9,1
180	IR	**727 208 543**	3.343	194	70	10,2
200	IR	**727 208 544**	4.902	210	70	11,4
225	IR	**727 208 545**	6.889	235	82	12,8
250	--	**727 208 546**	9.325	276	92	14,2
280	--	**727 208 547**	13.463	318	110	15,9
315	--	**727 208 548**	18.000	353	118	17,9
[1] 355	--	**727 208 549**	21.000	345	103	20,1
[1] 400	--	**727 208 550**	26.000	360	105	22,7
450	--	**727 208 551**	44.400	419	135	25,5
500	--	**727 208 552**	60.284	476	165	28,4



Tees 90°, equal, PP-H S5/SDR11

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

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



Tees 90°, equal, PP-H S8/SDR17.6

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

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

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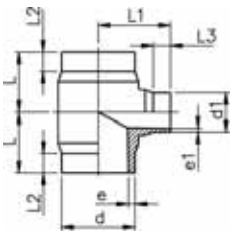
PROGEF Standard tee 90° reduced S5/SDR11



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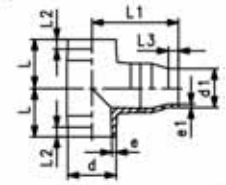


Model:

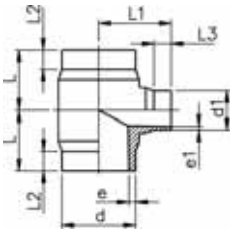
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

[1]with IR welded reducer

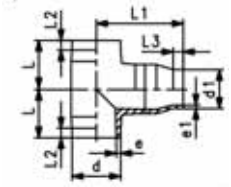
d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
63	32	IR	**727 208 351**	0.161	65	70	25	25	5.8	2.9
63	50	IR	**727 208 352**	0.170	65	70	25	25	5.8	4.6
75	32	IR	**727 208 353**	0.238	70	75	25	25	6.8	2.9
75	50	IR	**727 208 354**	0.249	70	75	25	25	6.8	4.6
75	63	IR	**727 208 355**	0.258	70	75	25	25	6.8	5.8
90	50	IR	**727 208 357**	0.420	80	85	25	25	8.2	4.6
90	63	IR	**727 208 358**	0.428	80	85	25	25	8.2	5.8
90	75	IR	**727 208 359**	0.430	80	85	25	25	8.2	6.8
110	32	IR	**727 208 360**	0.652	90	95	30	25	10.0	2.9
110	50	IR	**727 208 361**	0.659	90	95	30	25	10.0	4.6
110	63	IR	**727 208 362**	0.665	90	95	30	25	10.0	5.8
110	75	IR	**727 208 363**	0.681	90	95	30	25	10.0	6.8
110	90	IR	**727 208 364**	0.701	90	95	30	25	10.0	8.2
[1] 125	63	IR	**727 208 365**	1.680	125	232	25	16	11.4	5.8
[1] 125	90	IR	**727 208 366**	1.520	125	228	25	22	11.4	8.2
[1] 125	110	IR	**727 208 367**	1.700	125	220	25	30	11.4	10.0
[1] 140	75	IR	**727 208 368**	2.140	140	258	28	19	12.7	6.8
[1] 140	90	IR	**727 208 369**	2.150	140	250	28	22	12.7	8.2
[1] 140	110	IR	**727 208 370**	2.380	140	245	28	33	12.7	10.0
160	63	IR	**727 208 371**	2.130	142	135	50	30	14.6	5.8
160	75	IR	**727 208 372**	2.143	142	135	50	30	14.6	6.8
160	90	IR	**727 208 373**	2.148	142	135	50	30	14.6	8.2
160	110	IR	**727 208 374**	2.186	142	135	50	30	14.6	10.0
[1] 160	125	IR	**727 208 375**	3.500	160	279	28	32	14.6	11.4
[1] 200	160	IR	**727 208 385**	6.632	200	295	35	40	18.2	14.6
[1] 200	180	IR	**727 208 386**	6.200	200	345	35	45	18.2	16.4
225	90	IR	**727 208 388**	4.576	155	165	40	30	20.5	8.2
225	110	IR	**727 208 389**	4.624	155	165	40	30	20.5	10.0
225	160	IR	**727 208 391**	4.685	155	165	40	30	20.5	14.6
[1] 250	160		**727 208 393**	4.530	276	424	92	55	22.7	14.6

27 20 83

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



1

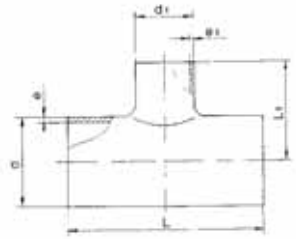


Model:

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

[1]with IR welded reducer
* Branch SDR11

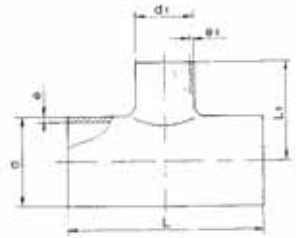
d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
* 63	32	IR	**727 208 301**	0.120	65	70	25	25	3,6	2,9
63	50	IR	**727 208 302**	0.124	65	70	25	25	3,6	2,9
* 75	32	IR	**727 208 303**	0.178	70	75	25	25	4,3	2,9
75	50	IR	**727 208 304**	0.182	70	75	25	25	4,3	2,9
75	63	IR	**727 208 305**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



Tee 90°, reduced, PP-H S5/SDR11

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

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



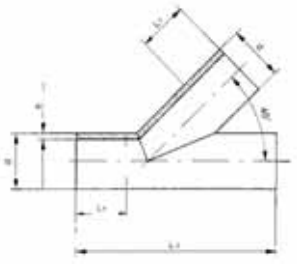
Tee 90°, reduced, PP-H S8/SDR17.6

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

d [mm]	d1 [mm]	Code	L [mm]	L1 [mm]	e [mm]	e1 [mm]
225	63	**700 649 541**	363	238	12,8	3,6
225	75	**700 649 542**	375	238	12,8	4,3
225	90	**700 649 543**	390	238	12,8	5,1
225	110	**700 649 544**	410	238	12,8	6,3
225	125	**700 649 545**	425	238	12,8	7,1
225	140	**700 649 546**	440	238	12,8	8,0

table continued next page

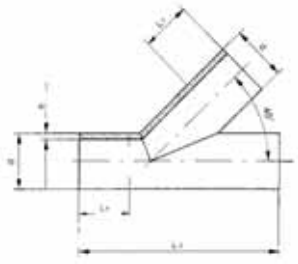
d [mm]	d1 [mm]	Code	L [mm]	L1 [mm]	e [mm]	e1 [mm]
225	160	**700 649 547**	460	238	12,8	9,1
250	75	**700 649 548**	475	250	14,2	4,3
250	90	**700 649 549**	490	250	14,2	5,1
250	110	**700 649 550**	510	250	14,2	6,3
250	125	**700 649 551**	525	250	14,2	7,1
250	140	**700 649 552**	540	250	14,2	8,0
250	160	**700 649 553**	560	250	14,2	9,1
250	180	**700 649 554**	580	275	14,2	10,2
280	75	**700 649 555**	475	265	15,9	4,3
280	90	**700 649 556**	490	265	15,9	5,1
280	110	**700 649 557**	510	265	15,9	6,3
280	125	**700 649 558**	525	265	15,9	7,1
280	140	**700 649 559**	540	265	15,9	8,0
280	160	**700 649 560**	560	265	15,9	9,1
280	180	**700 649 561**	580	290	15,9	10,2
280	200	**700 649 562**	600	290	15,9	11,4
315	90	**700 649 563**	490	283	17,9	5,1
315	110	**700 649 564**	510	283	17,9	6,3
315	125	**700 649 565**	525	283	17,9	7,1
315	140	**700 649 566**	540	283	17,9	8,0
315	160	**700 649 567**	560	283	17,9	9,1
315	180	**700 649 568**	580	308	17,9	10,2
315	200	**700 649 569**	600	308	17,9	11,4
315	225	**700 649 570**	625	308	17,9	12,8
355	110	**700 649 571**	510	303	20,1	6,3
355	125	**700 649 572**	525	303	20,1	7,1
355	140	**700 649 573**	540	303	20,1	8,0
355	160	**700 649 574**	560	303	20,1	9,1
355	180	**700 649 575**	580	328	20,1	10,2
355	200	**700 649 576**	600	328	20,1	11,4
355	225	**700 649 577**	625	328	20,1	12,8
355	250	**700 649 578**	650	378	20,1	14,2
400	110	**700 649 579**	510	325	22,7	6,3
400	125	**700 649 580**	525	325	22,7	7,1
400	140	**700 649 581**	540	325	22,7	8,0
400	160	**700 649 582**	560	325	22,7	9,1
400	180	**700 649 583**	580	350	22,7	10,2
400	200	**700 649 584**	600	350	22,7	11,4
400	225	**700 649 585**	625	350	22,7	12,8
400	250	**700 649 586**	650	400	22,7	14,2
400	280	**700 649 587**	680	400	22,7	15,9



Branch 45°, PP-H S5/SDR11

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

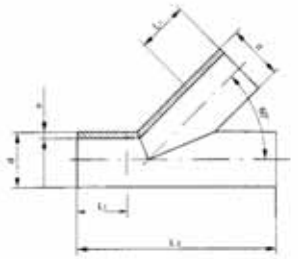
d [mm]	Code	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 636**	150	520	10,0
125	**700 649 637**	150	520	11,4
140	**700 649 638**	150	570	12,8
160	**700 649 639**	150	640	14,6
180	**700 649 640**	150	700	16,4
200	**700 649 641**	150	800	18,2
225	**700 649 642**	150	800	20,5
250	**700 649 643**	250	1000	22,8
280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



Branch 45°, PP-H S8/SDR17.6

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

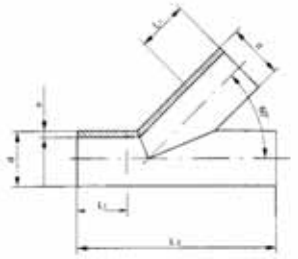
d [mm]	Code	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 648**	150	520	6,3
125	**700 649 649**	150	520	7,1
140	**700 649 650**	150	570	8,0
160	**700 649 651**	150	640	9,1
180	**700 649 652**	150	700	10,2
200	**700 649 653**	150	800	11,4
225	**700 649 654**	150	800	12,8
250	**700 649 655**	250	1000	14,2
280	**700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



Branch 60°, PP-H S5/SDR11

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

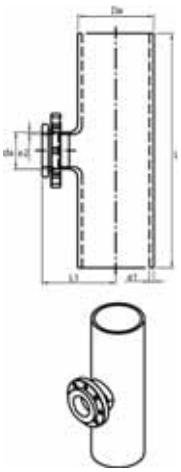
d [mm]	Code	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 660**	150	520	10,0
125	**700 649 661**	150	520	11,4
140	**700 649 662**	150	570	12,8
160	**700 649 663**	150	640	14,6
180	**700 649 664**	150	700	16,4
200	**700 649 665**	150	800	18,2
225	**700 649 666**	150	800	20,5
250	**700 649 667**	250	1000	22,8
280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



Branch 60°, PP-H S8/SDR17.6

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

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

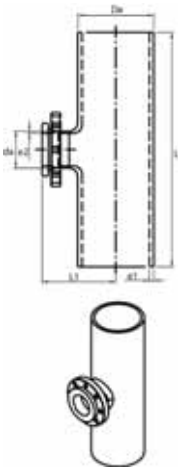


Revision Tees 90°, PP-H SDR11

Model:

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

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

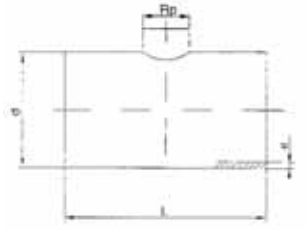


Revision Tees 90°, PP-H SDR17.6

Model:

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

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



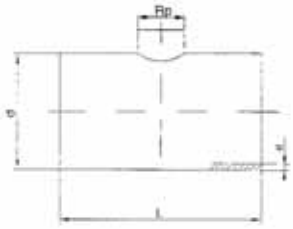
Saddle-Tee, PP-H S5/SDR11 Outlet with female thread Rp, welded

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

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

table continued next page

d [mm]	Thread 1 Code	Thread 11/4 Code	L [mm]	e [mm]
315	**700 649 597**	**700 649 609**	360	28,7
355	**700 649 598**	**700 649 610**	460	32,3
400	**700 649 599**	**700 649 611**	460	36,4



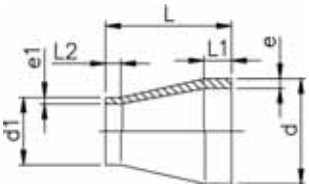
Saddle-Tee, PP-H S8/SDR17.6 Outlet with female thread Rp, welded

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

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

27 90 89

PROGEF Standard reducer S5/SDR11



Model:

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

[1] Material: PP-R

d [mm]	d1 [mm]	FM	Code	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	75	IR	**727 908 577**	0.215	90	28	18	10.0	6.8
110	90	IR	**727 908 576**	0.225	90	28	30	10.0	8.2
125	110	IR	**727 908 580**	0.335	100	32	30	11.4	10.0
140	110	IR	**727 908 585**	0.423	110	33	29	12.7	10.0
140	125	IR	**727 908 584**	0.462	110	34	30	12.7	11.4
160	110	IR	**727 908 590**	0.586	120	39	27	14.6	10.0
160	140	IR	**727 908 588**	0.647	120	40	35	14.6	12.7
180	90	IR	**727 908 978**	0.968	157	45	22	16.4	8.8
180	110	IR	**727 908 977**	0.987	157	45	28	16.4	10.0
180	125	IR	**727 908 976**	0.890	136	45	32	16.4	11.4
180	140	IR	**727 908 975**	0.917	136	45	35	16.4	12.7
180	160	IR	**727 908 974**	1.031	136	45	35	16.4	14.6
200	160	IR	**727 908 592**	1.149	145	50	40	18.2	14.6

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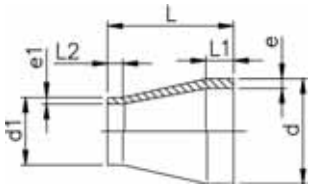
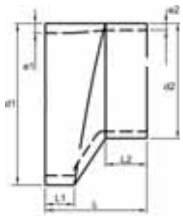


d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
200	180	IR	**727 908 979**	1.350	151	50	45	18.2	16.4
225	110	IR	**727 908 595**	1.485	160	55	35	20.5	10.0
225	160	IR	**727 908 596**	1.563	160	55	40	20.5	14.6
225	180	IR	**727 908 983**	1.893	171	55	45	20.5	16.4
225	200	IR	**727 908 597**	1.723	160	55	50	20.5	18.2
250	160	--	**727 908 990**	1.483	194	60	55	22.7	14.6
250	225	--	**727 908 987**	2.592	182	60	55	22.7	20.5
1 280	225	--	**727 908 992**	1.854	105	30	20	25.4	20.5
1 280	250	--	**727 908 991**	1.311	70	30	18	25.4	22.7
1 315	225	--	**727 908 997**	2.857	130	30	20	28.6	20.5
1 315	250	--	**727 908 996**	3.500	100	30	20	28.6	22.7
1 315	280	--	**727 908 995**	1.577	63	30	18	28.6	25.4
1 355	250	--	**727 908 963**	5.490	245	90	60	32.3	22.7
1 355	280	--	**727 908 962**	5.462	245	90	70	32.2	25.4
1 355	315	--	**727 908 961**	3.700	245	90	80	32.2	28.6
1 400	315	--	**727 908 966**	5.300	260	95	80	36.3	28.6
1 400	355	--	**727 908 965**	4.800	260	95	90	36.3	32.2
450	280	--	**727 908 960**	9.000	230	60	70	40.9	25.4
450	315	--	**727 908 948**	8.000	230	60	80	40.9	28.6
450	355	--	**727 908 950**	7.400	230	60	90	40.9	32.2
450	400	--	**727 908 951**	6.000	230	60	95	40.9	36.3
500	315	--	**727 908 953**	12.000	230	60	80	45.4	28.6
500	355	--	**727 908 954**	10.800	230	60	90	45.4	32.2
500	400	--	**727 908 956**	10.000	230	60	95	45.4	36.3
500	450	--	**727 908 964**	8.300	230	60	60	45.4	40.9



Reducing Bushes eccentric, PP-H SDR11

Model:

- Conventional butt fusion according to DVS2207
- Machined

d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
63	50	10	**700 647 700**	1.000	120	35	35	5,8	4,6
75	50	10	**700 647 701**	1.000	120	40	35	6,8	4,6
75	63	10	**700 647 702**	1.000	120	40	35	6,8	5,8
90	63	10	**700 647 703**	0.253	140	50	50	8,2	5,8
90	75	10	**700 647 704**	1.000	140	50	50	8,2	6,8
110	75	10	**700 647 705**	0.378	140	50	50	10	6,8
110	90	10	**700 647 706**	1.000	140	50	50	10	8,2
125	90	10	**700 647 707**	1.000	140	50	50	11,4	5,1
125	110	10	**700 647 708**	1.000	140	50	50	11,4	10
140	90	10	**700 647 709**	1.000	140	50	50	12,7	8,2
140	110	10	**700 647 710**	1.000	140	50	50	12,7	10
160	90	10	**700 647 711**	1.000	140	50	54	14,6	8,2
160	110	10	**700 647 712**	1.000	120	40	45	14,6	10
160	125	10	**700 647 713**	1.000	110	40	44	14,6	11,4
160	140	10	**700 647 714**	1.000	90	40	33	14,6	12,7
180	125	10	**700 647 715**	1.000	130	40	52	16,4	11,4
180	140	10	**700 647 716**	1.000	110	40	41	16,4	12,7
180	160	10	**700 647 717**	1.000	90	40	33	16,4	16,4
200	140	10	**700 647 718**	1.000	140	40	50	18,2	12,7
200	160	10	**700 647 719**	1.000	120	40	41	18,2	14,6
200	180	10	**700 647 720**	1.000	100	40	43	18,2	16,4
225	160	10	**700 647 721**	1.000	140	40	57	20,5	14,6
225	180	10	**700 647 722**	1.000	120	40	48	20,5	16,4
225	200	10	**700 647 723**	1.000	100	40	40	20,5	18,2
250	180	10	**700 647 724**	1.000	150	40	54	22,7	16,4
250	200	10	**700 647 725**	1.000	130	40	55	22,7	18,2
250	225	10	**700 647 726**	1.000	110	40	40	22,7	20,5
280	200	10	**700 647 727**	1.000	160	40	58	25,4	18,2
280	225	10	**700 647 728**	1.000	130	40	52	25,4	20,5
280	250	10	**700 647 729**	1.000	110	40	47	25,4	22,7
315	225	10	**700 647 730**	1.000	160	40	62	28,6	20,5
315	250	10	**700 647 731**	1.000	140	40	57	28,6	22,7
315	280	10	**700 647 732**	1.000	120	40	54	28,6	25,4

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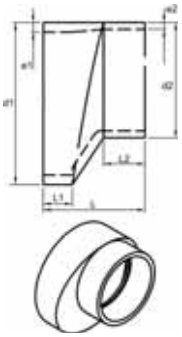
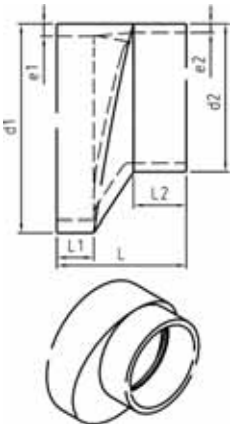


d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
355	250	10	**700 647 733**	1.000	180	40	74	32,2	22,7
355	280	10	**700 647 734**	1.000	150	40	61	32,2	25,4
355	315	10	**700 647 735**	1.000	120	40	51	32,2	28,6
400	280	10	**700 647 736**	1.000	200	40	85	36,3	25,4
400	315	10	**700 647 737**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



Reducing Bushes eccentric, PP-H SDR17.6

Model:

- Conventional butt fusion according to DVS2207
- Machined

d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
63	50	6	**700 647 750**	1.000	120	35	35	3,6	2,9
75	50	6	**700 647 751**	1.000	120	40	35	4,3	2,9
75	63	6	**700 647 752**	1.000	120	40	35	4,3	3,6
90	63	6	**700 647 753**	1.000	140	50	50	5,1	3,6
90	75	6	**700 647 754**	1.000	140	50	50	5,1	4,3
110	75	6	**700 647 755**	0.300	140	50	50	6,3	4,3
110	90	6	**700 647 756**	1.000	140	50	50	6,3	5,1
125	90	6	**700 647 757**	1.000	140	50	50	7,1	5,1
125	110	6	**700 647 758**	1.000	140	50	50	7,1	6,3
140	90	6	**700 647 759**	1.000	140	50	50	8,0	5,1
140	110	6	**700 647 760**	1.000	140	50	50	8,0	6,3
160	90	6	**700 647 761**	1.000	140	50	54	9,5	5,4
160	90	6	**700 647 762**	1.000	120	40	45	9,5	6,6
160	125	6	**700 647 763**	1.000	110	40	44	9,5	7,4
160	140	6	**700 647 764**	1.000	90	40	33	9,5	8,3
180	125	6	**700 647 765**	1.000	130	40	52	10,7	7,4
180	140	6	**700 647 766**	1.000	110	40	41	10,7	8,3
180	160	6	**700 647 767**	1.000	90	40	33	10,7	9,5
200	140	6	**700 647 768**	1.000	140	40	50	11,9	8,3
200	160	6	**700 647 769**	1.000	120	40	41	11,9	9,5
200	180	6	**700 647 770**	1.000	100	40	43	11,9	10,7
225	160	6	**700 647 771**	1.000	140	40	57	13,4	9,5
225	180	6	**700 647 772**	1.000	120	40	48	13,4	10,7
225	200	6	**700 647 773**	1.000	100	40	40	13,4	11,9
250	180	6	**700 647 774**	1.000	150	40	54	14,8	10,7
250	200	6	**700 647 775**	1.000	130	40	55	14,8	11,9
250	225	6	**700 647 776**	1.000	110	40	40	14,8	13,4
280	200	6	**700 647 777**	1.000	160	40	58	16,6	11,9
280	225	6	**700 647 778**	1.000	130	40	52	16,6	13,4
280	250	6	**700 647 779**	1.000	110	40	47	16,6	14,8
315	225	6	**700 647 780**	1.000	160	40	62	18,7	13,4
315	250	6	**700 647 781**	1.000	140	40	57	18,7	14,8
315	280	6	**700 647 782**	1.000	120	40	54	18,7	16,6
355	250	6	**700 647 783**	1.000	180	40	74	21,1	14,8
355	280	6	**700 647 784**	1.000	150	40	61	21,1	16,6
355	315	6	**700 647 785**	1.000	120	40	51	21,1	18,7
400	280	6	**700 647 786**	1.000	200	40	85	23,7	16,6
400	315	6	**700 647 787**	1.000	170	40	75	23,7	18,7
400	355	6	**700 647 788**	1.000	130	40	58	23,7	21,1
450	315	6	**700 647 789**	1.000	210	40	86	26,7	18,7

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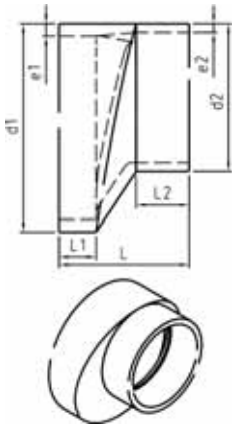
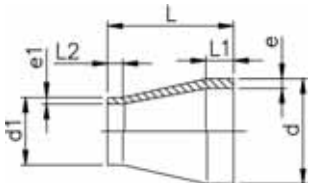


d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
450	355	6	**700 647 790**	1.000	180	40	79	26,7	21,1
450	400	6	**700 647 791**	1.000	140	40	65	26,7	23,7
500	315	6	**700 647 792**	1.000	260	40	107	29,7	18,7
500	355	6	**700 647 793**	1.000	220	40	91	29,7	21,1
500	400	6	**700 647 794**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

27 90 89

PROGEF Standard reducer S8.3/SDR17.6



Model:

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

[1] Material: PP-R

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

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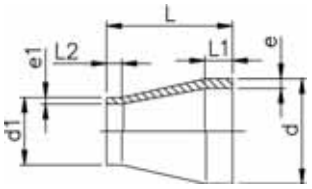
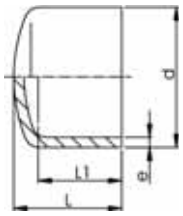


d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
500	355	--	**727 908 994**	7.300	230	60	95	28,4	20,1
500	400	--	**727 908 998**	6.700	230	60	95	28,4	22,7
500	450	--	**727 908 999**	5.500	230	60	60	28,4	25,5

27 96 89

PROGEF Standard end cap S5/SDR11



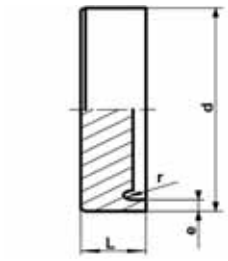
Model:

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

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
20	IR	**727 968 931**	0.005	42	30	1.9
25	IR	**727 968 932**	0.005	50	35	2.3
32	IR	**727 968 933**	0.013	55	40	2.9
40	IR	**727 968 934**	0.018	65	45	3.7
50	IR	**727 968 935**	0.043	70	50	4.6
63	IR	**727 968 936**	0.080	80	55	5.8
75	IR	**727 968 937**	0.126	90	60	6.8
90	IR	**727 968 938**	0.107	105	70	8.2
110	IR	**727 968 939**	0.384	120	80	10.0
125	IR	**727 968 940**	0.237	50	25	11.4
140	IR	**727 968 941**	0.350	60	30	12.7
160	IR	**727 968 942**	0.684	76	40	14.6
180	IR	**727 968 943**	1.103	125	88	16.4
200	IR	**727 968 944**	1.089	100	50	18.2
225	IR	**727 968 945**	1.531	103	60	20.5

27 96 89

PROGEF Standard end cap S5/SDR11



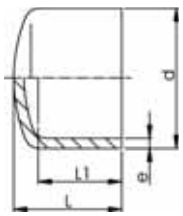
Model:

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

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

27 96 89

PROGEF Standard end cap S8.3/SDR17.6



Model:

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

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

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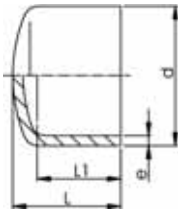


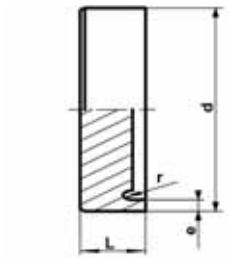
d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
180	IR	**727 968 918**	0.769	125	88	10,2
200	IR	**727 968 919**	0.751	100	50	11,4
225	IR	**727 968 920**	1.060	103	60	12,8

27 96 89

PROGEF Standard end cap S8.3/SDR17.6

Model:

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

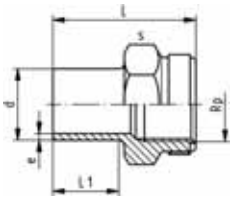


d [mm]	Code	kg	L [mm]	e [mm]
250	**727 968 821**	1.600	55	14,2
280	**727 968 822**	2.100	60	15,9
315	**727 968 823**	3.000	65	17,9
355	**727 968 824**	4.200	70	20,1
400	**727 968 825**	6.000	75	22,7
450	**727 968 826**	8.600	85	25,5
500	**727 968 827**	11.600	90	28,3

Adaptor fittings for butt fusion

27 91 02

PROGEF Standard adaptor socket metric Rp



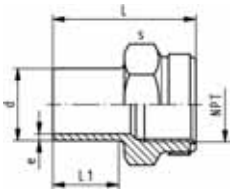
Model:

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

d [mm]	Rp [inch]	PN	FM	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	10	IR	**727 910 266**	0.017	49	23	32	1,9
25	¾	10	IR	**727 910 267**	0.022	50	23	36	2,3
32	1	10	IR	**727 910 268**	0.038	54	23	46	2,9
40	1 ¼	10	IR	**727 910 269**	0.066	56	23	55	3,7
50	1 ½	10	IR	**727 910 270**	0.090	60	23	65	4,6
63	2	10	IR	**727 910 271**	0.123	62	23	80	5,8

27 91 43

PROGEF Standard adaptor socket metric NPT



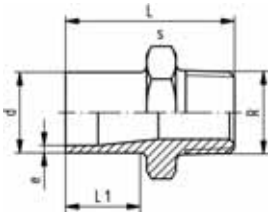
Model:

- 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]	PN	FM	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	10	IR	**727 914 356**	0.017	49	23	32	1.9
25	¾	10	IR	**727 914 357**	0.022	51	23	36	2.3
32	1	10	IR	**727 914 358**	0.039	54	23	46	2.9
40	1 ¼	10	IR	**727 914 359**	0.057	56	23	55	3.7
50	1 ½	10	IR	**727 914 360**	0.085	60	23	65	4.6
63	2	10	IR	**727 914 361**	0.122	62	23	80	5.8

27 91 05

PROGEF Standard adaptor nipple metric R



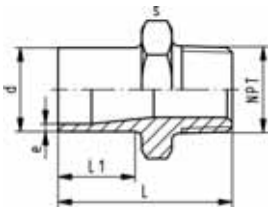
Model:

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

d [mm]	R [inch]	PN	FM	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	10	IR	**727 910 556**	0.013	51	23	32	1,9
25	¾	10	IR	**727 910 557**	0.014	52	23	36	2,3
32	1	10	IR	**727 910 558**	0.027	55	23	46	2,9
40	1 ¼	10	IR	**727 910 559**	0.041	58	23	55	3,7
50	1 ½	10	IR	**727 910 560**	0.062	60	23	65	4,6
63	2	10	IR	**727 910 561**	0.096	67	26	80	5,8

27 91 46

PROGEF Standard adaptor nipple metric NPT



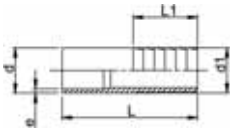
Model:

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

d [mm]	NPT [inch]	PN	FM	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	10	IR	**727 914 656**	0.013	51	23	32	1.9
25	¾	10	IR	**727 914 657**	0.026	52	23	36	2.3
32	1	10	IR	**727 914 658**	0.026	55	23	46	2.9
40	1 ¼	10	IR	**727 914 659**	0.041	58	24	55	3.7
50	1 ½	10	IR	**727 914 660**	0.062	60	23	65	4.6
63	2	10	IR	**727 914 661**	0.097	67	26	80	5.8

27 96 86

PROGEF Standard hose connector metric

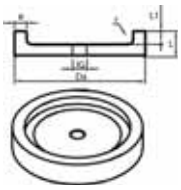


Model:

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

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

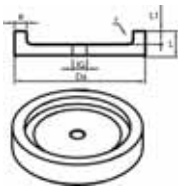
End Cap PP-H, SDR11 with female thread



Model:

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

d [mm]	Rp [inch]	PN	Code	kg	L [mm]	L1 [mm]	e [mm]	r [mm]
63	½	10	**700 647 924**	1.000	35	10	5,8	5
75	½	10	**700 647 925**	1.000	35	10	6,8	5
90	½	10	**700 647 926**	1.000	35	10	8,2	5
110	½	10	**700 647 927**	1.000	35	10	10	5
125	½	10	**700 647 928**	1.000	36	10	11,4	5
140	½	10	**700 647 929**	1.000	38	10	12,7	5
160	½	10	**700 647 930**	1.000	40	10	14,6	6
180	½	10	**700 647 931**	1.000	41	10	16,4	6
200	½	10	**700 647 932**	1.000	45	11	18,2	6
225	½	10	**700 647 933**	1.000	52	12	20,5	10
250	½	10	**700 647 934**	1.000	57	14	22,7	11
280	½	10	**700 647 935**	1.000	63	15	25,4	13
315	½	10	**700 647 936**	1.000	72	17	28,6	14
355	½	10	**700 647 937**	1.000	80	19	32,2	16
400	½	10	**700 647 938**	1.000	90	22	36,3	18
450	½	10	**700 647 939**	1.000	102	25	40,9	20
500	½	10	**700 647 940**	1.000	113	27	45,4	23
560	½	10	**700 647 941**	1.000	127	30	50,8	25
630	½	10	**700 647 942**	1.000	143	34	57,2	29

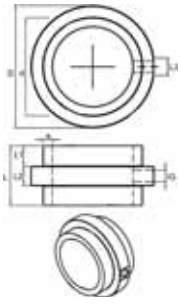


End Cap PP-H, SDR17.6 with female thread

Model:

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

d [mm]	Rp [inch]	PN	Code	kg	L [mm]	L1 [mm]	e [mm]	r [mm]
63	½	6	**700 665 127**	1.000	35	10	3,6	5
75	½	6	**700 665 128**	1.000	35	10	4,3	5
90	½	6	**700 665 129**	1.000	35	10	5,1	5
110	½	6	**700 665 130**	1.000	35	10	6,3	5
125	½	6	**700 665 131**	1.000	35	10	7,1	5
140	½	6	**700 665 132**	1.000	35	10	8,0	5
160	½	6	**700 665 133**	1.000	35	10	9,1	6
180	½	6	**700 665 134**	1.000	35	10	10,2	6
200	½	6	**700 665 135**	1.000	35	10	11,4	6
225	½	6	**700 665 136**	1.000	35	10	12,8	8
250	½	6	**700 665 137**	1.000	35	10	14,2	8
280	½	6	**700 665 138**	1.000	40	10	15,9	8
315	½	6	**700 665 139**	1.000	45	11	17,9	8
355	½	6	**700 665 140**	1.000	50	12	20,1	8
400	½	6	**700 665 141**	1.000	57	14	22,7	10
450	½	6	**700 665 142**	1.000	67	16	26,7	10
500	½	6	**700 665 143**	1.000	75	18	29,7	10
560	½	6	**700 665 144**	1.000	83	20	33,2	10
630	½	6	**700 665 145**	1.000	93	22	37,2	10



Instrument Installation Fittings PP-H, SDR11 with female thread

Model:

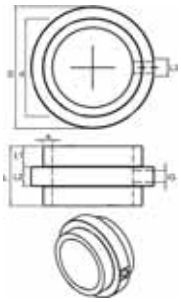
- Conventional butt fusion according to DVS2207
- Machined
- metric - Rp
- other thread-dimensions and NPT-thread available on request

d [mm]	Rp [inch]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	D [mm]	e [mm]
63	½	10	**700 665 351**	1.000	90	30	30	90	5,8
75	½	10	**700 665 352**	1.000	90	30	30	110	6,8
90	½	10	**700 665 353**	1.000	100	30	40	125	8,2
110	½	10	**700 665 354**	1.000	100	30	40	140	10
125	½	10	**700 665 355**	1.000	110	35	40	160	11,4
140	½	10	**700 665 356**	1.000	125	40	45	180	12,7
160	½	10	**700 665 357**	1.000	125	40	45	200	14,6
180	½	10	**700 665 358**	1.000	135	45	45	225	16,4
200	½	10	**700 665 359**	1.000	135	45	45	250	18,2
225	½	10	**700 665 360**	1.000	135	45	45	280	20,5
250	½	10	**700 665 361**	1.000	145	50	45	280	22,7
280	½	10	**700 665 362**	1.000	155	50	55	315	25,4
315	½	10	**700 665 363**	1.000	155	50	55	355	28,6
355	½	10	**700 665 364**	1.000	115	30	55	400	32,2
400	½	10	**700 665 365**	1.000	130	30	70	450	36,3

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

Model:

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

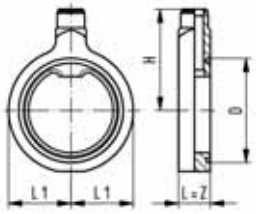


d [mm]	Rp [inch]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	D [mm]	e [mm]
63	½	6	**700 665 388**	1.000	90	30	30	90	3,6
75	½	6	**700 665 389**	1.000	90	30	30	110	4,3
90	½	6	**700 665 390**	1.000	100	30	40	125	5,1
110	½	6	**700 665 391**	1.000	100	30	40	140	6,3
125	½	6	**700 665 392**	1.000	110	35	40	160	7,1
140	½	6	**700 665 393**	1.000	125	40	45	180	8,0
160	½	6	**700 665 394**	1.000	125	40	45	200	9,1
180	½	6	**700 665 395**	1.000	135	45	45	225	10,2
200	½	6	**700 665 396**	1.000	135	45	45	250	11,4
225	½	6	**700 665 397**	1.000	135	45	45	280	12,8
250	½	6	**700 665 398**	1.000	145	50	45	280	14,2
280	½	6	**700 665 399**	1.000	155	50	55	315	15,9
315	½	6	**700 665 400**	1.000	155	50	55	355	17,9
355	½	6	**700 665 401**	1.000	115	30	55	400	20,1
400	½	6	**700 665 402**	1.000	130	30	70	450	22,7

SIGNET Sensor installation fittings

27 31 10

PROGEF Standard installation fitting type 311



Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Suitable for backing flanges metric and inch
- Suitable for SDR 11 - SDR 17.6
- Delivered with profile O-ring

Range of use:

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

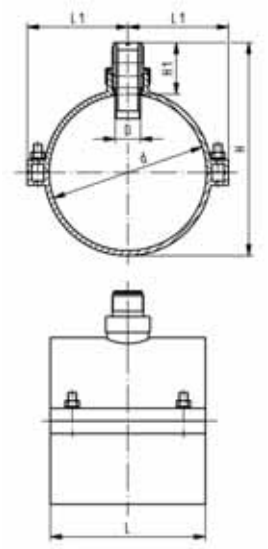
Attention:

- sensor length depends on installation fitting

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

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

PROGEF Standard installation fitting type 312 metric



Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Top saddle with EPDM gasket
- Stainless steel bolts and nuts

Range of use:

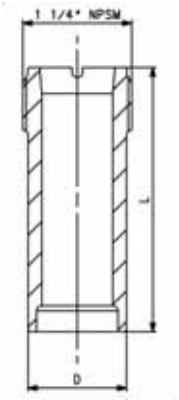
- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

Attention:

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

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

PROGEF Standard installation fitting type 314



Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- for conventional hot gas back welding according to DVS 2207 part 3

Range of use:

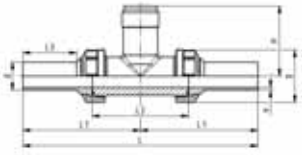
- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

Attention:

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

d [mm]	DN	PN* [bar]	Code	kg	D [mm]	L [mm]	Sensor Type
75 - 180	65 - 150	-	**727 314 000**	0.050	37.5	68	flow X0, pH XX
200 - 355	200 - 350	-	**727 314 001**	0.057	37.5	102	flow X1
400 - 630	350 - 600	-	**727 314 002**	0.885	37.5	178	flow X2

27 31 80



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

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Union end with butt fusion spigot PP-H

Range of use:

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

Attention:

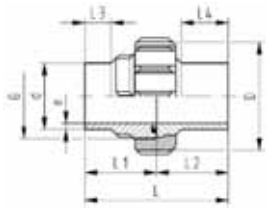
- sensor length depends on installation fitting

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

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

Unions for butt fusion

EPDM 27 51 85
FPM 27 52 85



PROGEF Standard union S5/SDR11

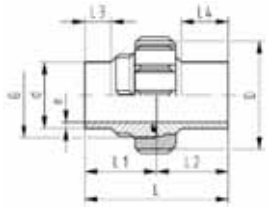
Model:

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

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

d [mm]	D [mm]	G [inch]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	e [mm]
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

EPDM 27 51 84
FPM 27 52 84



PROGEF Standard union S8.3/SDR17.6

Model:

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

d [mm]	PN	FM	EPDM Code	FPM Code	kg
75	6	IR	**727 518 412**	**727 528 412**	0.476
90	6	IR	**727 518 413**	**727 528 413**	0.483
110	6	IR	**727 518 414**	**727 528 414**	0.664

d [mm]	D [mm]	G [inch]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
75	135	S107,5x3,6	132	66.0	66.0	4,3
90	135	S107,5x3,6	131	65.5	65.5	5,1
110	158	S127,5x3,6	131	65.5	65.5	6,3

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

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

Caution

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

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

Tip

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

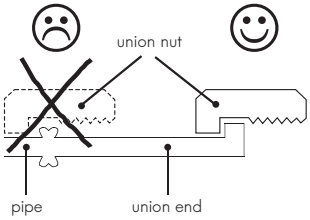


Fig. 1

② For the dimensions d 90 and d 110 we advise fusing the complete union, if possible (or slide the union nut to the collar of the union end) because after fusion the union nut cannot be slid over the fusion bead. (Fig. 1)

③ For design reasons, it is theoretically possible to combine different nominal diameters of union ends and nuts. To make sure combinations are technically correct, you can find the code numbers of the single parts and spare parts for each union in the Tables 1-3.

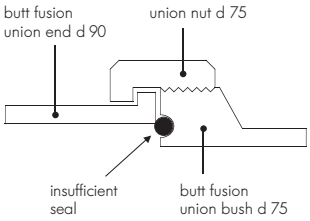


Fig. 2

Caution

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

A butt fusion union bush d 75 may not be combined with a butt fusion union end d 90 to form a reducer because this can cause leakage, as illustrated to the left. (Fig. 2)

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

SF/MS 75	specified for socket fusion d 75
BF/ST 75–90	specified for butt fusion d 75–75 and d 90–90
SF/MS 90	specified socket fusion d 90
BF/ST 110	specified butt fusion d 110
110	specified for socket fusion d 110

Tip

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

Selection tables for single parts and spare parts

Butt fusion

Socket fusion

Table 1

Single parts for **PP-H** unions d 75, d 90 and d 110

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

Table 2

Single parts for **PE 100** unions d 75, d 90 and d 110

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

Table 3

O-Rings for PP-H, PE 100

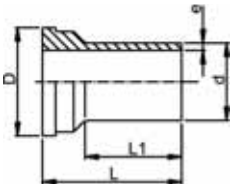
d	BF/ST	SF/MS	SDR	PN	Code O-Ring EPDM[1]	Code O-Ring FPM[1]
75				16	748 410 013	749 410 013
				16	748 410 014	749 410 014
90				16	748 410 014	749 410 014
				16	748 410 015	749 410 015
110				16	748 410 015	749 410 015
				16	748 410 016	749 410 016

* Union nuts overlap several dimensions

[1] Flange adaptor O-rings, one size smaller in nominal dimensions, are used for the d 75–110 butt-fusion unions

27 60 85

PROGEF Standard union end IR plus SDR11



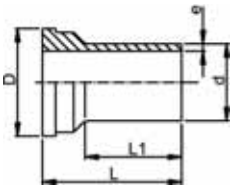
Model:

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

d [mm]	PN	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	e [mm]
20	10	IR	**727 508 506**	0.009	30	54	38	1.9
25	10	IR	**727 508 507**	0.017	39	57	42	2.3
32	10	IR	**727 508 508**	0.026	45	60	41	2.9
40	10	IR	**727 508 509**	0.043	57	63	42	3.7
50	10	IR	**727 508 510**	0.058	63	66	44	4.6
63	10	IR	**727 508 511**	0.095	78	69	45	5.8
75	10	IR	**727 508 512**	0.146	101	66	34	6.8
90	10	IR	**727 508 513**	0.158	101	66	45	8.2
110	10	IR	**727 508 514**	0.233	121	66	40	10.0

27 60 84

PROGEF Standard union end IR plus SDR17.6



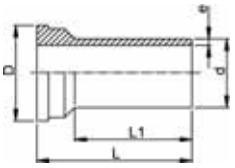
Model:

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

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

27 60 85

PROGEF Standard union end long SDR11



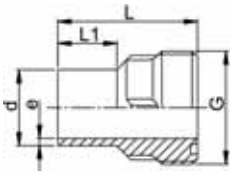
Model:

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

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

27 64 85

PROGEF Standard union bush SDR11

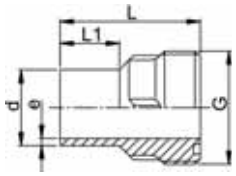


Model:

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

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

table continued next page

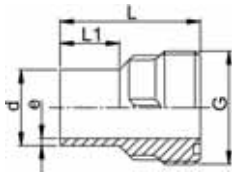


d [mm]	PN	FM	Code	kg	G [inch]	L [mm]	L1 [mm]	e [mm]
75	10	IR	**727 848 512**	0.172	S107.5x3.6	66	24	6.8
90	10	IR	**727 848 513**	0.182	S107.5x3.6	66	24	8.2
110	10	IR	**727 848 514**	0.258	S127.5x3.6	66	25	10.0

Union Bushes, PP-H SDR17,6

Model:

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



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

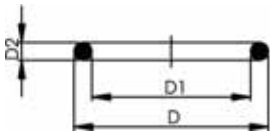
EPDM 48 41 00
FPM 49 41 00

O-Ring gasket

Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C

* for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

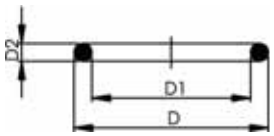


d [mm]	DN [mm]	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	D2 [mm]
10 - 12	8	**748 410 004**	**749 410 004**	0.001	18	12	2.62
16	10	**748 410 005**	**749 410 005**	0.001	21	16	2.62
20	15	**748 410 006**	**749 410 006**	0.001	27	20	3.53
25	20	**748 410 007**	**749 410 007**	0.002	35	28	3.53
32	25	**748 410 008**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

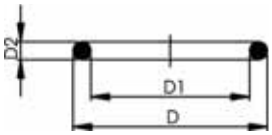
O-Ring Gasket, FPM black

Model:

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



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



O-Ring Gaskets

Model:

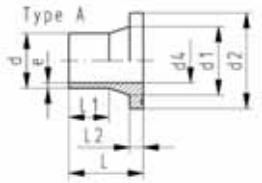
- For unions and adaptor unions
- Hardness approx. 75° Shore
- FFPM minimum temperature -20°C

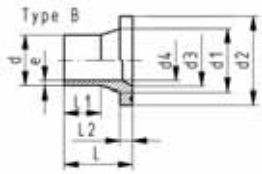
d [mm]	DN [mm]	FFPM Code	kg	D [mm]	D1 [mm]	D2 [mm]
20	15	**700 245 481**	0.002	27	20	4
25	20	**700 245 482**	0.002	35	28	4
32	25	**700 245 483**	0.002	40	33	4
40	32	**700 245 484**	0.006	51	41	5
50	40	**700 245 485**	0.007	58	47	5
63	50	**700 245 486**	0.010	70	60	5

Flange Adaptors, Flanges and Gaskets for Butt Fusion

27 79 87

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





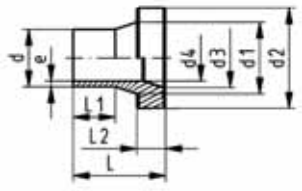
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric **(from d110 also to ANSI/ASME B16.5)**
- Up to d315, suitable for butterfly valve type 567/568
  Above use PROGEF Standard Adaptor for butterfly valves SDR11 (d355-d500)
- Up to d280, suitable for butterfly valve type 037/038/039
  Above use PROGEF Standard Adaptor for butterfly valves SDR11 (d315-d500)
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Type A without chamfer, Type B with chamfer

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

277986

PROGEF Standard adaptor for butterfly valves SDR11
Jointing face flat metric



Model:

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

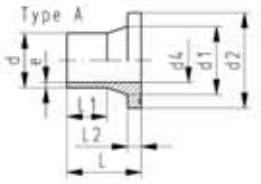
Note:

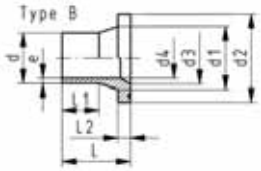
* available starting Q1 2013

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

Type A

Type B





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

Model:

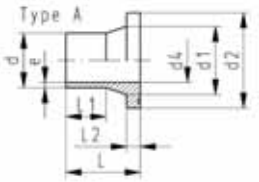
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to **ANSI/ASME B 16.5**
- Up to d280, suitable for butterfly valve type 567/568 and 037/038/039
- Gasket: Profile flange gasket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

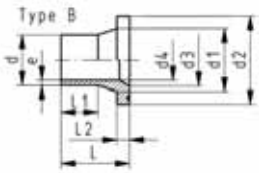
*** Type B with chamfer**

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

Type A

Type B





PROGEF Standard flange adaptor S8.3/SDR17.6
Combined jointing face: flat and serrated

Model:

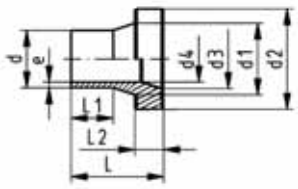
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric **(from d110 also to ANSI/ASME B16.5)**
- Up to d315, suitable for butterfly valve type 567/568
  Above use PROGEF Standard Adaptor for butterfly valves SDR17.6 (d355-d500)
- Up to d280, suitable for butterfly valve type 037/038/039
  Above use PROGEF Standard Adaptor for butterfly valves SDR17.6 (d315-d500)
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Type A without chamfer, Type B with chamfer

d [mm]	DN [mm]	FM	Code	kg
50	40	IR	**727 798 785**	0.077
63	50	IR	**727 798 786**	0.116
75	65	IR	**727 798 787**	0.204
90	80	IR	**727 798 788**	0.273
110	100	IR	**727 798 789**	0.361
125	100	IR	**727 798 790**	0.356
140	125	IR	**727 798 791**	0.526
160	150	IR	**727 798 792**	0.761
180	150	IR	**727 798 793**	0.630
200	200	IR	**727 798 794**	1.462
225	200	IR	**727 798 795**	1.330
250	250		**727 798 796**	1.800
280	250		**727 798 797**	1.785
315	300		**727 798 798**	2.499
355	350		**727 798 799**	5.251
400	400		**727 798 800**	7.700
450	500		**727 798 801**	10.200
500	500		**727 798 802**	9.300

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

277986

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



Model:

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

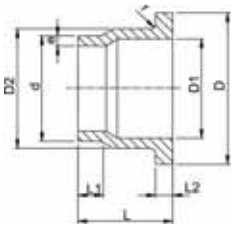
Note:

* available starting Q1 2013

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

27 80 80

PROGEF Standard outlet flange adaptor S5/SDR11



Model:

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

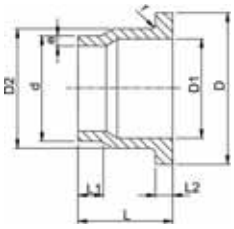
Attention:

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

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

27 80 80

PROGEF Standard outlet flange adaptor S8.3/SDR17.6



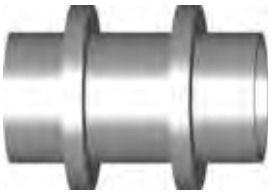
Model:

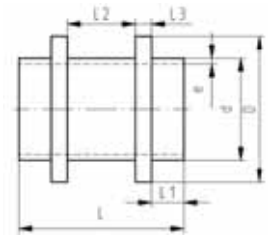
- Material: Polypropylene, PP-R
- Conventional butt-welding according to DVS 2207 part 11
- To wafer check valves Type 369

Attention:

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

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



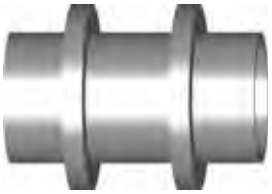


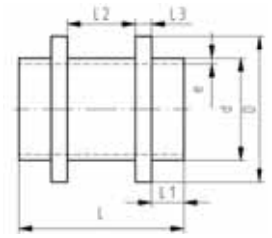
PROGEF Standard fixed point fitting S5/SDR11

Model:

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

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





PROGEF Standard fixed point fitting S8 3/SDR17 6

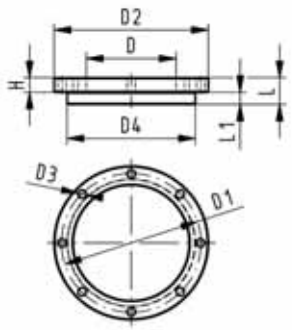
Model:

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

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

27 70 06

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



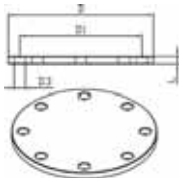
Model:

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

AL: number of holes
L: length of the End Blank

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

Blanking Flanges PP-H



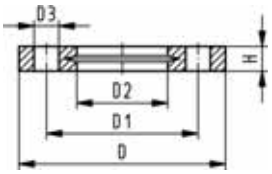
Model:

- made out of sheet material
- **Bolt circle PN 10**

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

27 70 04
27 70 05

Backing flange PP-V
For butt fusion systems metric



Model:

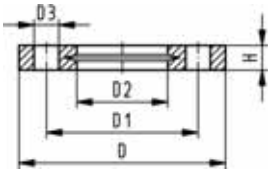
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN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

* Combined version, metric-ANSI
AL: number of holes
¹) Suitable for socket- and butt fusion systems (no pictograph on flange)

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
¹) 20	15	16	**727 700 406**	0.093	95	65.0	28	14	16	4	M12
¹) 25	20	16	**727 700 407**	0.120	105	75.0	34	14	17	4	M12
¹) 32	25	16	**727 700 408**	0.151	115	85.0	42	14	18	4	M12
¹) 40	32	16	**727 700 409**	0.244	140	100.0	51	18	20	4	M16
¹) 50	40	16	**727 700 410**	0.297	150	110.0	62	18	22	4	M16
¹) 63	50	16	**727 700 411**	0.362	165	125.0	78	18	24	4	M16
¹) 75	65	16	**727 700 412**	0.487	185	145.0	92	18	26	4	M16
90	80	16	**727 700 513**	0.544	200	160.0	108	18	27	8	M16
110	100	16	**727 700 514**	0.643	220	180.0	128	18	28	8	M16
125	100	16	**727 700 515**	0.635	220	180.0	135	18	28	8	M16
140	125	16	**727 700 516**	0.842	250	210.0	158	18	30	8	M16
180	150	16	**727 700 518**	1.200	285	240.0	188	22	32	8	M20
250	250	16	**727 700 521**	2.052	395	350.0	288	22	38	12	M20
280	250	16	**727 700 522**	1.700	395	350.0	294	22	38	12	M20
315	300	16	**727 700 523**	2.400	445	400.0	338	22	42	12	M20
355	350	10	**727 700 524**	4.440	515	460.0	376	22	46	16	M20
400	400	10	**727 700 525**	5.624	574	515.0	430	26	50	16	M24

27 70 04
27 70 05

Backing flange PP-V
For socket systems metric



Model:

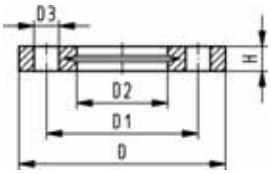
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN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

* Combined version, metric-ANSI
AL: number of holes
¹) Suitable for socket- and butt fusion systems (no pictograph on flange)

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

27 70 14
27 70 15

Backing flange PP-V
For butt fusion systems Inch ANSI



Model:

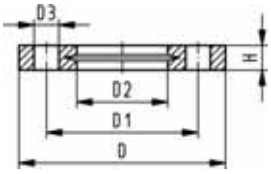
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes
* Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1 ½	15	20	16	**727 701 406**	0.091	95	60.0	28	16	16	4	M12
1 ¾	20	25	16	**727 701 407**	0.120	105	70.0	34	16	17	4	M12
1	25	32	16	**727 701 408**	0.147	115	79.0	42	16	18	4	M12
1 1 ¼	32	40	16	**727 701 409**	0.246	140	89.0	51	16	20	4	M16
1 1 ½	40	50	16	**727 701 410**	0.299	150	98.0	62	16	22	4	M16
2	50	63	16	**727 701 411**	0.361	165	121.0	78	19	24	4	M16
2 ½	65	75	16	**727 701 412**	0.492	185	140.0	92	19	26	4	M16
3	80	90	16	**727 701 513**	0.607	200	152.0	108	19	27	4	M16
4	100	110	16	**727 701 514**	0.736	229	190.0	128	19	28	8	M16
10	250	250	16	**727 701 521**	2.241	406	362.0	288	26	38	12	M20
10	250	280	16	**727 701 522**	2.173	406	362.0	294	26	38	12	M20
12	300	315	16	**727 701 523**	3.627	483	432.0	338	26	42	12	M20

27 70 14
27 70 15

Backing flange PP-V
For socket systems Inch ANSI



Model:

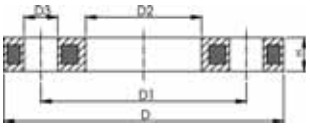
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- 727701414, 727700417, 727700419: only for use with original metric flange adaptors

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes
* Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
1 ½	15	20	16	**727 701 406**	0.091	95	60.0	28	16	16	4	M12
1 ¾	20	25	16	**727 701 407**	0.120	105	70.0	34	16	17	4	M12
1	25	32	16	**727 701 408**	0.147	115	79.0	42	16	18	4	M12
1 1 ¼	32	40	16	**727 701 409**	0.246	140	89.0	51	16	20	4	M16
1 1 ½	40	50	16	**727 701 410**	0.299	150	98.0	62	16	22	4	M16
2	50	63	16	**727 701 411**	0.361	165	121.0	78	19	24	4	M16
2 ½	65	75	16	**727 701 412**	0.492	185	140.0	92	19	26	4	M16
3	80	90	16	**727 701 413**	0.605	200	152.0	110	19	27	4	M16
4	100	110	16	**727 701 414**	0.704	229	190.0	133	19	28	8	M16

27 70 02
27 70 03

Backing flange PP-Steel
For butt fusion systems metric



Model:

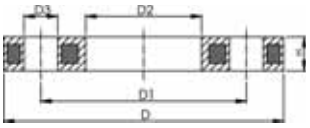
- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20	15	16	**727 700 206**	0.216	95	65	28	14	12	4	M12
25	20	16	**727 700 207**	0.279	105	75	34	14	12	4	M12
32	25	16	**727 700 208**	0.429	115	85	42	14	16	4	M12
40	32	16	**727 700 209**	0.621	140	100	51	18	16	4	M16
50	40	16	**727 700 210**	0.722	150	110	62	18	20	4	M16
63	50	16	**727 700 211**	1.084	165	125	78	18	20	4	M16
75	65	16	**727 700 212**	1.349	185	145	92	18	20	4	M16
90	80	16	**727 700 313**	1.390	200	160	108	18	20	8	M16
110	100	16	**727 700 314**	1.407	220	180	128	18	20	8	M16
125	100	16	**727 700 315**	1.408	220	180	135	18	20	8	M16
140	125	16	**727 700 316**	2.318	250	210	158	18	24	8	M16
180	150	16	**727 700 318**	3.108	285	240	188	22	24	8	M20
200	200	16	**727 700 319**	5.600	340	295	235	22	27	8	M20
225	200	16	**727 700 320**	5.533	340	295	238	22	27	8	M20
250	250	16	**727 700 321**	6.632	395	350	288	22	30	12	M20
280	250	16	**727 700 322**	6.573	395	350	294	22	30	12	M20
315	300	16	**727 700 323**	7.903	445	400	338	22	34	12	M20
355	350	16	**727 700 324**	14.587	515	460	376	22	40	16	M20
400	400	16	**727 700 325**	20.034	574	515	430	26	40	16	M24

27 70 12

Backing flange PP-Steel
For butt fusion systems Inch ANSI



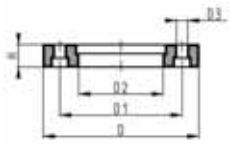
Model:

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

AL: number of holes

d [inch]	DN [mm]	d [mm]	PN	Code	kg	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	SC
½	15	20	16	**727 701 206**	0.213	60	28	16	95	12	4	M12
¾	20	25	16	**727 701 207**	0.260	70	34	16	105	12	4	M12
1	25	32	16	**727 701 208**	0.416	79	42	16	115	16	4	M12
1 ¼	32	40	16	**727 701 209**	0.730	89	51	16	140	16	4	M16
1 ½	40	50	16	**727 701 210**	0.809	98	62	16	150	18	4	M16
2	50	63	16	**727 701 211**	0.866	121	78	19	165	18	4	M16
2 ½	65	75	16	**727 701 212**	1.117	140	92	19	185	18	4	M16
3	80	90	16	**727 701 313**	1.499	152	108	19	200	20	4	M16
4	100	110	16	**727 701 314**	1.739	190	128	19	229	20	8	M16
8	200	200	16	**727 701 319**	5.440	298	235	22	340	27	8	M20
8	200	225	16	**727 701 320**	5.621	298	238	22	340	27	8	M20

24 70 04



Profiled backing flange PP/Steel
For butt fusion systems metric

Model:

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

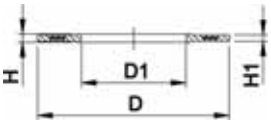
Note:

flat side = bolt side
profiled side = flange adaptor side

AL: number of holes
* Galvanized steel, suitable for underground laying

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

EPDM 48 44 07
FPM 49 44 07



Profile flange gasket metric

Model:

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

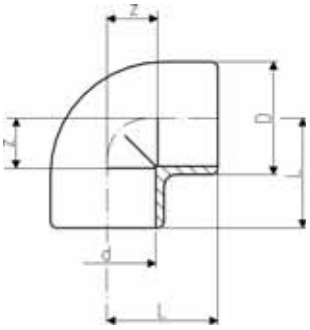
di FA are the suitable inner diameters of flange adaptors

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

Fittings for Socket Fusion

27 10 01

PROGEF Standard elbow 90°



Model:

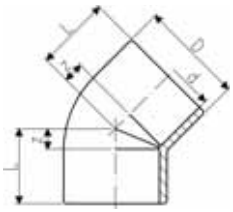
- Material: PP-H

* use pipe SDR 7.4

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

27 15 01

PROGEF Standard elbow 45°



Model:

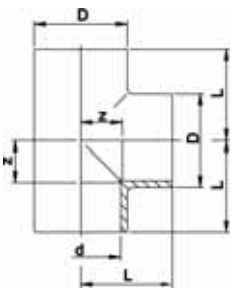
- Material: PP-H

* use pipe SDR 7.4

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

27 20 01

PROGEF Standard tee 90° equal



Model:

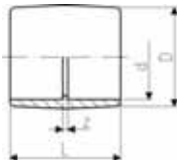
- Material: PP-H

* use pipe SDR 7.4

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

27 91 01

PROGEF Standard socket equal



Model:

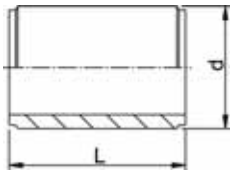
- Material: PP-H

* use pipe SDR 7.4

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

27 91 09

PROGEF Standard barrel nipple



Model:

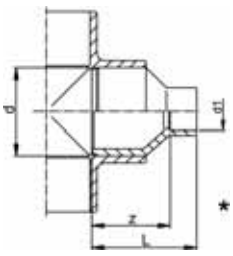
- Material: PP-H
- With fusion sockets on both sides
- For the shortest possible distance between fittings
- Overall length L = 2 x fusion length

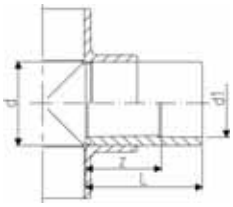
* In these two sizes, stiffeners Code No. 727 900 006 (20 x 1.9) and 727 900 007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

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

27 91 03

PROGEF Standard reducer





Model:

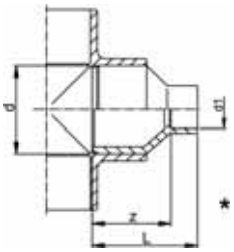
- Material: PP-H

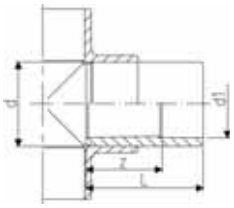
Note:

* Fusion spigot and socket

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

table continued next page





d [mm]	d1 [mm]	PN	Code	kg	L [mm]	z [mm]
* 90	63	10	**727 910 371**	0.170	88	61
90	75	10	**727 910 370**	0.142	70	39
110	90	10	**727 910 376**	0.235	81	46

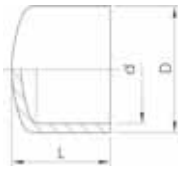
27 96 01

PROGEF Standard end cap

Model:

- Material: PP-H

* use pipe SDR 7.4



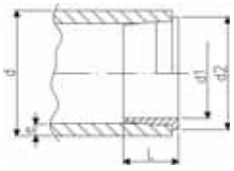
d [mm]	PN	Code	kg	D [mm]	L [mm]
* 16	10	**727 960 105**	0.006	25	20
20	10	**727 960 106**	0.009	30	27
25	10	**727 960 107**	0.015	36	30
32	10	**727 960 108**	0.023	44	34
40	10	**727 960 109**	0.035	53	38
50	10	**727 960 110**	0.061	65	44
63	10	**727 960 111**	0.102	80	51
75	10	**727 960 112**	0.149	91	65
90	10	**727 960 113**	0.277	111	77
110	10	**727 960 114**	0.411	137	93

27 90 00

PROGEF Standard stiffener

Model:

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

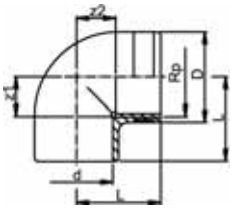


d [mm]	e [mm]	Code	kg	L [mm]	d1 [mm]	d2 [mm]
20	1,9	**727 900 006**	0.001	10	14	18
25	2,3	**727 900 007**	0.004	11	18	23

Adaptor fittings for socket fusion

27 10 02

PROGEF Standard elbow 90° metric Rp



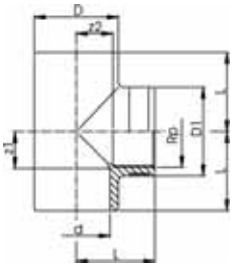
Model:

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

d [mm]	Rp [inch]	PN	Code	kg	D [mm]	L [mm]	z1 [mm]	z2 [mm]
20	½	10	**727 100 206**	0.022	30	28	14	14
25	¾	10	**727 100 207**	0.035	35	32	16	16
32	1	10	**727 100 208**	0.057	44	38	20	20
40	1 ¼	10	**727 100 209**	0.087	54	44	24	24

27 20 02

PROGEF Standard tee 90° metric Rp



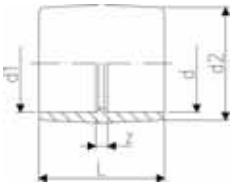
Model:

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

d [mm]	Rp [inch]	PN	Code	kg	D [mm]	D1 [mm]	L [mm]	z1 [mm]	z2 [mm]
20	½	10	**727 200 206**	0.030	31	30	28	14	14
25	¾	10	**727 200 207**	0.042	36	35	32	16	16
32	1	10	**727 200 208**	0.071	44	45	38	20	20
40	1 ¼	10	**727 200 209**	0.107	54	55	44	24	24

27 91 30

PROGEF Standard adaptor socket Metric Inch BS



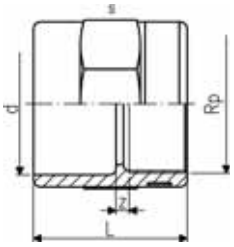
Model:

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

d [mm]	d1 [inch]	PN	Code	kg	d2 [mm]	L [mm]	z [mm]
20	½	10	**727 913 006**	0.014	31	35	7
25	¾	10	**727 913 007**	0.019	36	39	7
32	1	10	**727 913 008**	0.025	44	43	7
40	1 ¼	10	**727 913 009**	0.040	54	48	8
50	1 ½	10	**727 913 010**	0.100	66	54	8
63	2	10	**727 913 011**	0.130	82	62	8
90	3	10	**727 913 013**	0.260	112	81	10
110	4	10	**727 913 014**	0.389	134	96	12

27 91 02

PROGEF Standard adaptor socket metric Rp



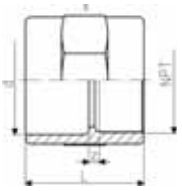
Model:

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

d [mm]	Rp [inch]	PN	Code	kg	L [mm]	s [mm]	z [mm]
20	⅜	10	**727 910 205**	0.017	35	32	7
20	½	10	**727 910 206**	0.018	40	32	7
25	¾	10	**727 910 207**	0.025	42	36	7
32	1	10	**727 910 208**	0.040	48	46	7
40	1 ¼	10	**727 910 209**	0.064	53	55	7
50	1 ½	10	**727 910 210**	0.089	54	65	9
63	2	10	**727 910 211**	0.144	62	80	9

27 91 42

Adaptor Sockets, PP-H metric - NPT



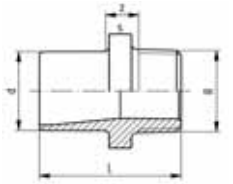
Model:

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

d [mm]	NPT [inch]	PN	Code	kg	L [mm]	s [mm]	z [mm]
20	½	10	**727 914 266**	0.018	40	32	7
25	¾	10	**727 914 267**	0.023	42	36	7
32	1	10	**727 914 268**	0.039	48	46	7
40	1 ¼	10	**727 914 269**	0.056	53	55	7
50	1 ½	10	**727 914 270**	0.095	54	65	9
63	2	10	**727 914 271**	0.145	62	80	9

27 91 05

PROGEF Standard adaptor nipple metric R



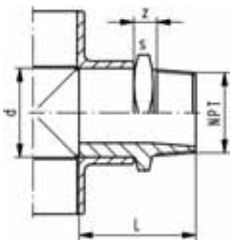
Model:

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

d [mm]	R [inch]	PN	Code	kg	L [mm]	s [mm]	z [mm]
16	⅜	10	**727 910 505**	0.008	37	27	13
20	½	10	**727 910 506**	0.011	42	32	13
25	¾	10	**727 910 507**	0.015	46	36	13
32	1	10	**727 910 508**	0.027	52	46	12
40	1 ¼	10	**727 910 509**	0.040	56	55	14
50	1 ½	10	**727 910 510**	0.061	60	65	15
63	2	10	**727 910 511**	0.100	69	80	16

27 91 45

PROGEF Standard adaptor nipple metric NPT



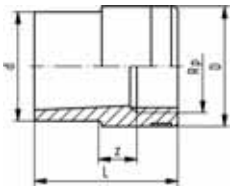
Model:

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

d [mm]	NPT [inch]	PN	Code	kg	s [mm]	L [mm]	z [mm]
16	⅜	10	**727 914 555**	0.008	27	37	13
20	½	10	**727 914 556**	0.013	32	42	13
25	¾	10	**727 914 557**	0.015	36	46	13
32	1	10	**727 914 558**	0.026	46	52	12
40	1 ¼	10	**727 914 559**	0.041	55	56	14
50	1 ½	10	**727 914 560**	0.061	65	60	15
63	2	10	**727 914 561**	0.185	80	69	16

27 91 04

PROGEF Standard reducing bush metric Rp



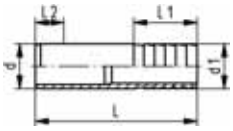
Model:

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

d [mm]	Rp [inch]	PN	Code	kg	L [mm]	z [mm]
20	¼	10	**727 910 433**	0.011	36	7
20	⅜	10	**727 910 434**	0.011	36	7
25	½	10	**727 910 437**	0.015	45	6
32	¾	10	**727 910 441**	0.022	47	8
40	1	10	**727 910 446**	0.039	53	9
50	1 ¼	10	**727 910 452**	0.061	55	10

27 96 04

PROGEF Standard hose connector metric

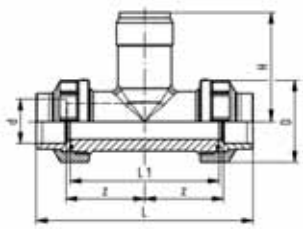


Model:

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

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

27 31 00



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

Model:

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

Range of use:

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

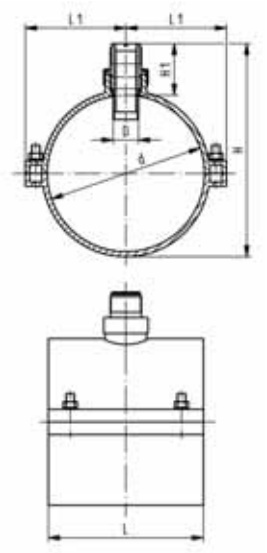
Attention:

- sensor length depends on installation fitting

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

d [mm]	D [mm]	z [mm]	L [mm]	L1 [mm]	H [mm]	Sensor Type
20	48	50	128	90	76	flow X0, pH XX
25	58	55	142	100	78	flow X0, pH XX
32	65	60	156	110	81	flow X0, pH XX
40	79	60	160	110	85	flow X0, pH XX
50	91	65	176	120	89	flow X0, pH XX
63	105	70	194	130	95	flow X0, pH XX

27 31 20



PROGEF Standard installation fitting type 312 metric

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Top saddle with EPDM gasket
- Stainless steel bolts and nuts

Range of use:

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

Attention:

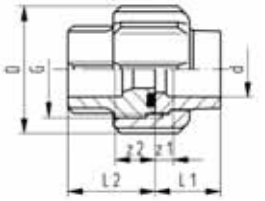
- sensor length depends on installation fitting
- working temperature max. +40°C (water)

d [mm]	DN [mm]	PN	Code	kg	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	Sensor Type
75	65	8	**727 312 072**	0.488	34	78	62	172	88	flow X1
90	80	8	**727 312 073**	0.514	34	86	69	186	87	flow X1
110	100	8	**727 312 074**	0.602	34	98	79	206	86	flow X1

Unions for socket fusion

EPDM 27 51 01
FPM 27 52 01

PROGEF Standard union metric



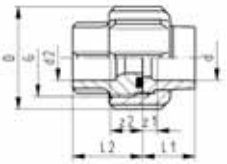
Model:

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

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

27 51 30

PROGEF Standard adapter union metric BS Inch / ASTM



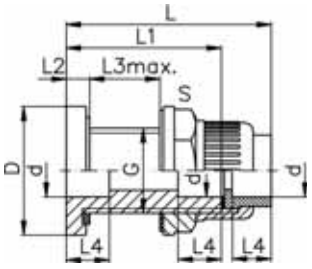
Model:

- Material: PP-H
- Fusion socket metric
- Jointing face: With O-ring groove

d [mm]	d2	PN	Code	kg	D [mm]	G [inch]	L1 [mm]	L2 [mm]	z1 [mm]	z2 [mm]
20	½	10	**727 513 006**	0.041	48	1	19	26	5	12
25	¾	10	**727 513 007**	0.061	58	1 1/4	21	28	5	12
32	1	10	**727 513 008**	0.028	65	1 1/2	23	30	5	12
40	1 ¼	10	**727 513 009**	0.108	79	2	25	34	5	14
50	1 ½	10	**727 513 010**	0.133	91	2 1/4	28	39	5	16
63	2	10	**727 513 011**	0.252	111	2 3/4	32	47	5	20

67 05 02

PROGEF Standard tank adaptor



Model:

- Material: PP-H
- End connection: Union with fusion socket metric
- Gasket: flat gasket EPDM

d [mm]	Code	kg	G [inch]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 max [mm]	L4 [mm]	s [mm]	Diameter of bore in tank side [mm]
20	**167 050 226**	0.098	1	56	89	67	11	30	16	38	35
25	**167 050 227**	0.153	1 ¼	65	96	72	12	32	18	47	43
32	**167 050 228**	0.185	1 ½	70	100	75	12	33	20	53	49
40	**167 050 229**	0.292	2	95	106	78	12	32	22	75	61
50	**167 050 230**	0.308	2 ¼	95	112	82	13	32	25	75	67
63	**167 050 231**	0.493	2 ¾	115	112	87	13	33	29	101	83

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

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

Caution

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

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

Tip

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

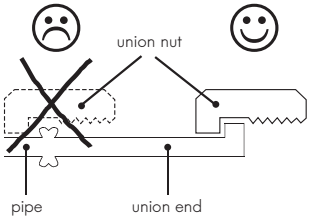


Fig. 1

② For the dimensions d 90 and d 110 we advise fusing the complete union, if possible (or slide the union nut to the collar of the union end) because after fusion the union nut cannot be slid over the fusion bead. (Fig. 1)

③ For design reasons, it is theoretically possible to combine different nominal diameters of union ends and nuts. To make sure combinations are technically correct, you can find the code numbers of the single parts and spare parts for each union in the Tables 1-3.

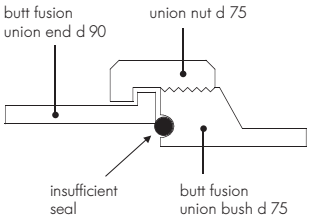


Fig. 2

Caution

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

A butt fusion union bush d 75 may not be combined with a butt fusion union end d 90 to form a reducer because this can cause leakage, as illustrated to the left. (Fig. 2)

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

SF/MS 75	specified for socket fusion d 75
BF/ST 75–90	specified for butt fusion d 75–75 and d 90–90
SF/MS 90	specified socket fusion d 90
BF/ST 110	specified butt fusion d 110
110	specified for socket fusion d 110

Tip

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

Selection tables for single parts and spare parts

Butt fusion

Socket fusion

Table 1

Single parts for **PP-H** unions d 75, d 90 and d 110

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

Table 2

Single parts for **PE 100** unions d 75, d 90 and d 110

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

Table 3

O-Rings for PP-H, PE 100

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

* Union nuts overlap several dimensions

[1] Flange adaptor O-rings, one size smaller in nominal dimensions, are used for the d 75–110 butt-fusion unions

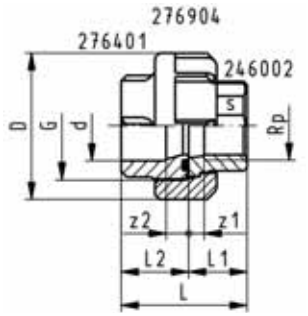
Adaptor Unions for Socket Fusion

27 53 03

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

Model:

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



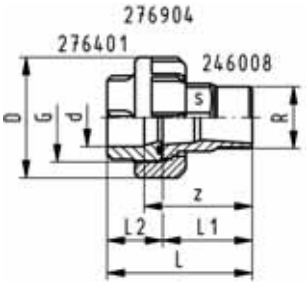
d [mm]	Rp [inch]	PN	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	z1 [mm]	z2 [mm]	G [inch]	s [mm]
20	½	10	**727 530 306**	0.073	43	48	22	26	9	10	1	25
25	¾	10	**727 530 307**	0.118	51	50	22	28	7	10	1 1/4	31
32	1	10	**727 530 308**	0.199	58	56	26	30	9	10	1 1/2	38
40	1 ¼	10	**727 530 309**	0.276	72	65	31	34	12	12	2	48
50	1 ½	10	**727 530 310**	0.317	83	72	33	39	14	14	2 1/4	54
63	2	10	**727 530 311**	0.579	100	82	35	47	11	18	2 3/4	67

27 53 08

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

Model:

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



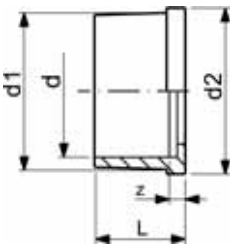
d [mm]	R [inch]	PN	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	G [inch]	s [mm]
20	½	10	**727 530 806**	0.112	43	66	40	26	50	1	25
25	¾	10	**727 530 807**	0.171	51	71	43	28	53	1 1/4	31
32	1	10	**727 530 808**	0.236	58	78	48	30	58	1 1/2	38
40	1 ¼	10	**727 530 809**	0.379	72	91	57	34	69	2	48
50	1 ½	10	**727 530 810**	0.512	83	98	59	39	73	2 1/4	54
63	2	10	**727 530 811**	0.763	100	109	62	47	80	2 3/4	67

34 60 01

Union Ends, PE80

Model:

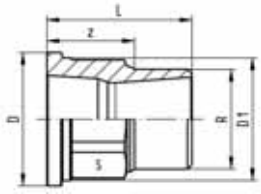
- With fusion socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514



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

24 60 08

Union end malleable iron galvanized R



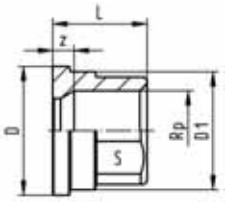
Model:

- Union End: Malleable iron with taper male thread R

d [mm]	R [inch]	Code	kg	D [mm]	D1 [mm]	L [mm]	z [mm]	s [mm]
20	½	**724 600 806**	0.069	30	27	40	25	23
25	¾	**724 600 807**	0.115	39	36	43	27	30
32	1	**724 600 808**	0.161	44	41	48	29	36
40	1 ¼	**724 600 809**	0.294	56	52	57	36	48
50	1 ½	**724 600 810**	0.353	62	58	59	37	54
63	2	**724 600 811**	0.570	78	73	62	36	66

24 60 02

Union end malleable iron galvanized Rp



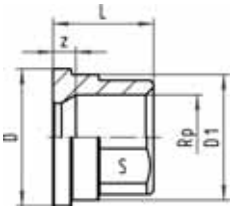
Model:

- Union End: malleable iron with parallel female thread Rp

d [mm]	Rp [inch]	PN	Code	kg	D [mm]	D1 [mm]	L [mm]	z [mm]	s [mm]
20	½	16	**724 600 206**	0.037	30	27	22	9	25
25	¾	16	**724 600 207**	0.072	39	36	22	7	31
32	1	16	**724 600 208**	0.088	44	41	26	9	38
40	1 ¼	16	**724 600 209**	0.172	56	52	31	12	48
50	1 ½	16	**724 600 210**	0.210	62	58	33	14	54
63	2	16	**724 600 211**	0.331	78	73	35	11	67

20 60 02

Union end brass Rp



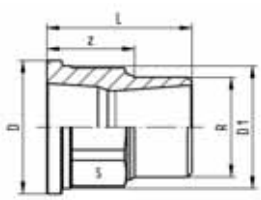
Model:

- Union End: Brass with parallel female thread Rp

d [mm]	Rp [inch]	Code	kg	D [mm]	D1 [mm]	z [mm]	L [mm]	s [mm]
20	½	**720 600 236**	0.059	30	28	5	22	25
25	¾	**720 600 237**	0.100	39	36	6	25	30
32	1	**720 600 238**	0.128	45	42	6	27	36
40	1 ¼	**720 600 239**	0.211	56	53	7	31	46
50	1 ½	**720 600 240**	0.324	62	59	7	35	55
63	2	**720 600 241**	0.510	78	74	8	40	65
75	2 ½	**720 600 242**	0.893	100	92	10	47	85
90	3	**720 600 243**	1.395	121	110	11	52	95

20 60 02

Union end brass R



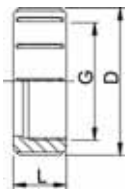
Model:

- Union End: Brass with taper male thread R

d [mm]	R [inch]	Code	kg	D [mm]	D1 [mm]	L [mm]	z [mm]	s [mm]
20	½	**720 600 246**	0.092	30	28	37	22	25
25	¾	**720 600 247**	0.151	39	36	42	25	30
32	1	**720 600 248**	0.216	45	42	46	28	36
40	1 ¼	**720 600 249**	0.408	56	53	52	32	46
50	1 ½	**720 600 250**	0.538	62	59	56	36	55
63	2	**720 600 251**	0.859	78	74	67	42	65
75	2 ½	**720 600 252**	1.446	100	92	77	49	85
90	3	**720 600 253**	2.063	121	110	86	54	95

27 69 04

Union Nut, PP-GF



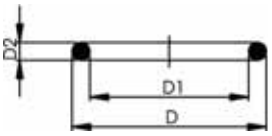
Model:

- Material: PP glass-fibre reinforced

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

EPDM 48 41 00
FPM 49 41 00

O-Ring gasket



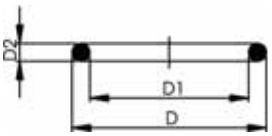
Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C

* for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

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

O-Ring Gaskets



Model:

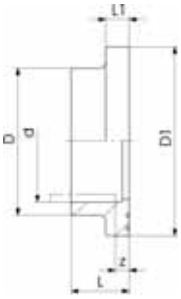
- For unions and adaptor unions
- Hardness approx. 75° Shore
- FFPM minimum temperature -20°C

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

Flange Adaptors, Flanges and Gaskets for Socket Fusion

27 79 02

PROGEF Standard flange adaptor Jointing face flat/serrated



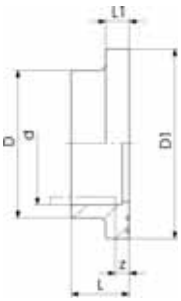
Model:

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

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

27 79 02

PROGEF Standard flange adaptor Jointing face serrated ANSI

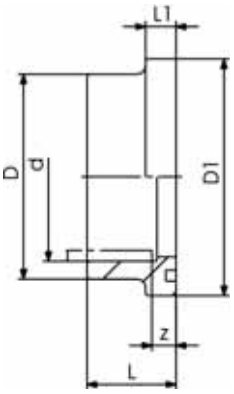


Model:

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

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

27 81 01



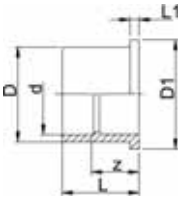
PROGEF Standard flange adaptor
Jointing face with o-ring groove

Model:

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

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

27 80 00



PROGEF Standard outlet flange adaptor
Jointing face flat

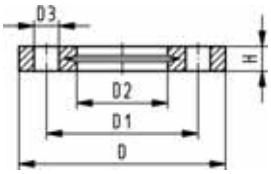
Model:

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

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

27 70 04
27 70 05

Backing Flanges, PP-V
For socket systems metric



Model:

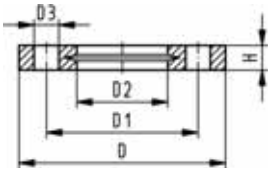
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN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

* Combined version, metric-ANSI
AL: number of holes
[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)

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

27 70 14
27 70 15

Backing Flanges, PP-V
For socket systems Inch ANSI



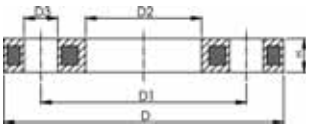
Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- 727701414, 727700417, 727700419: only for use with original metric flange adaptors

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes
* Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1] ½	15	20	16	**727 701 406**	0.091	95	60.0	28	16	16	4	M12
[1] ¾	20	25	16	**727 701 407**	0.120	105	70.0	34	16	17	4	M12
[1] 1	25	32	16	**727 701 408**	0.147	115	79.0	42	16	18	4	M12
[1] 1 ¼	32	40	16	**727 701 409**	0.246	140	89.0	51	16	20	4	M16
[1] 1 ½	40	50	16	**727 701 410**	0.299	150	98.0	62	16	22	4	M16
[1] 2	50	63	16	**727 701 411**	0.361	165	121.0	78	19	24	4	M16
[1] 2 ½	65	75	16	**727 701 412**	0.492	185	140.0	92	19	26	4	M16
3	80	90	16	**727 701 413**	0.605	200	152.0	110	19	27	4	M16
4	100	110	16	**727 701 414**	0.704	229	190.0	133	19	28	8	M16

27 70 02



Backing Flanges, PP/Steel
For socket systems metric

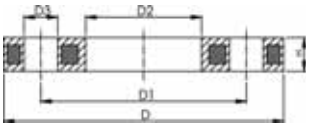
Model:

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

[1] Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100
[2] Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250
AL: number of holes

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

27 70 12



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

Model:

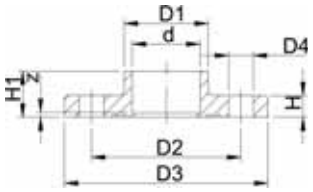
- For Flange Adaptors BS/ANSI
- Material: PP (30 % glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- 727701214, 727700217: only for use with original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

AL: number of holes

d [inch]	DN [mm]	d [mm]	PN	Code	kg	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	SC
½	15	20	16	**727 701 206**	0.213	60	28	16	95	12	4	M12
¾	20	25	16	**727 701 207**	0.260	70	34	16	105	12	4	M12
1	25	32	16	**727 701 208**	0.416	79	42	16	115	16	4	M12
1 ¼	32	40	16	**727 701 209**	0.730	89	51	16	140	16	4	M16
1 ½	40	50	16	**727 701 210**	0.809	98	62	16	150	18	4	M16
2	50	63	16	**727 701 211**	0.866	121	78	19	165	18	4	M16
2 ½	65	75	16	**727 701 212**	1.117	140	92	19	185	18	4	M16
3	80	90	16	**727 701 213**	1.492	152	110	19	200	20	4	M16
4	100	110	16	**727 701 214**	1.695	190	133	19	229	20	8	M16

27 30 10
27 40 10

Fixed Flanges, PP-H metric
Jointing face flat



Model:

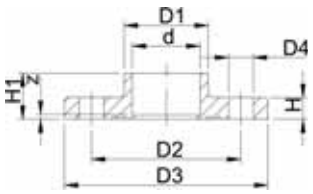
- Material: PP-H
- With fusion socket metric
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

AL: number of holes

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

27 30 10
27 40 10

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



Model:

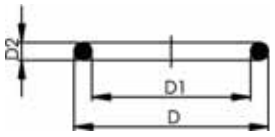
- Material: PP-H
- With fusion socket metric
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

AL: number of holes

d [mm]	DN [mm]	Inch	PN	Code	kg	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	AL	z [mm]
20	15	1/2	10	**727 740 106**	0.065	27	65	94	14	12	19	4	5
25	20	3/4	10	**727 740 107**	0.074	33	75	103	14	13	21	4	5
32	25	1	10	**727 740 108**	0.115	40	85	115	14	14	23	4	5
40	32	11/4	10	**727 740 109**	0.175	50	100	138	18	15	25	4	5
50	40	11/2	10	**727 740 110**	0.210	61	110	148	18	16	27	4	5
63	50	2	10	**727 740 111**	0.286	76	125	163	18	18	31	4	5

EPDM 48 41 01
FPM 49 41 01

O-Ring gasket

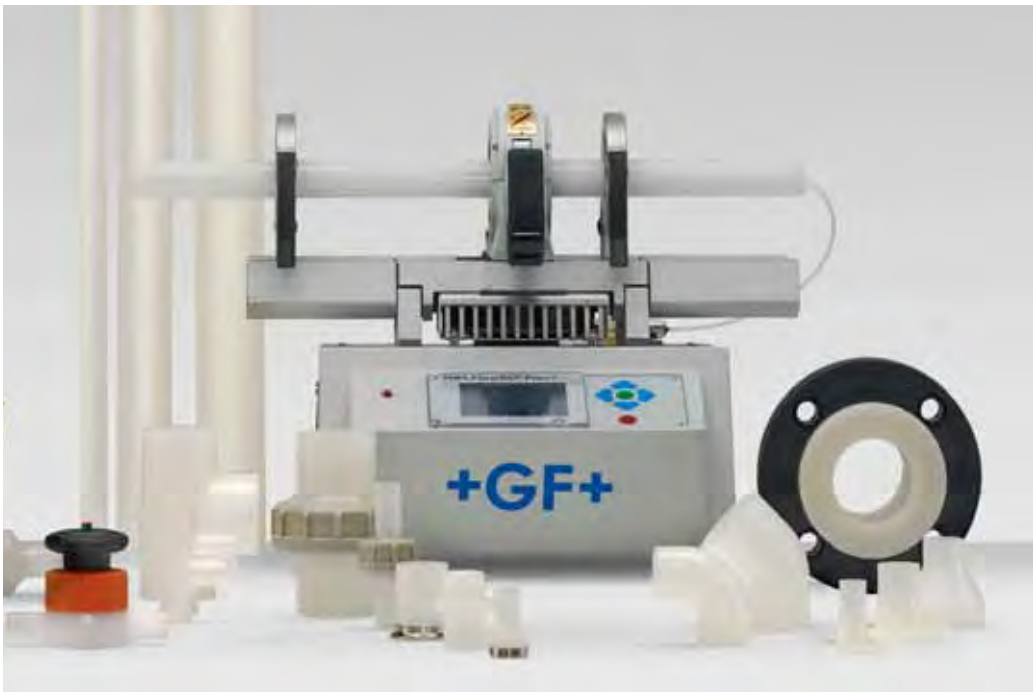


Model:

- For Flange Adaptors
- Hardness approx. 65° Shore

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

PROGEF® Natural



– Pipes
– Butt Fusion System

PROGEF® Natural (natural)

Pressure/temperature diagram for PP

PROGEF® Natural

The following pressure/temperature diagram for PROGEF® Natural pipes and fittings is valid for a lifetime of 25 years.

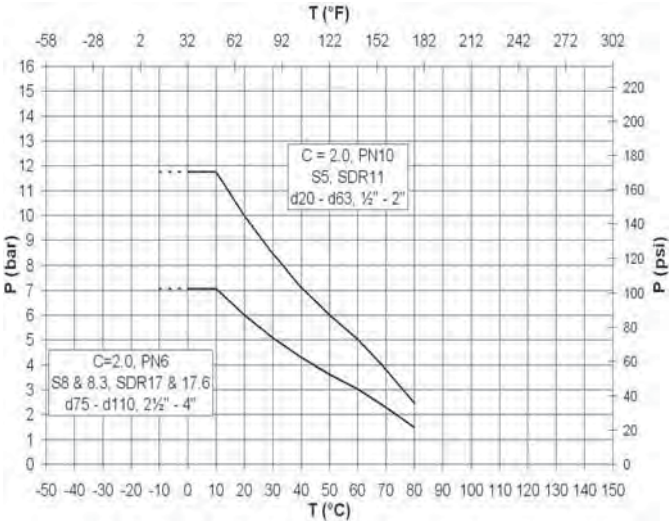
The design factor of 2.0 recommended by GF is incorporated.

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

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

Remark: Using PROGEF® Natural at higher temperatures can lead to a discoloration of the material.

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

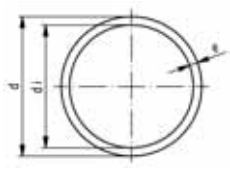


P Permissible pressure in bar, psi
T Temperature in °C, °F

Pipes

68 48 01

PROGEF Natural S5/SDR11 (PN10)



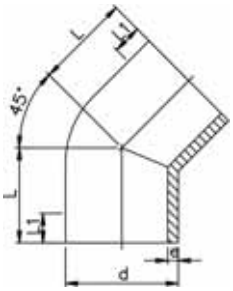
Model:

- Material: PP-R unpigmented
- Colour: natural
- Length: Lengths of 5 m
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11

d [mm]	Code	kg/m	e [mm]	di [mm]
20	**168 480 151**	0.107	1.9	16.2
25	**168 480 152**	0.164	2.3	20.4
32	**168 480 153**	0.261	2.9	26.2
40	**168 480 154**	0.412	3.7	32.6
50	**168 480 155**	0.638	4.6	40.8
63	**168 480 156**	1.010	5.8	51.4

Fittings for Butt Fusion

PROGEF Natural elbow 45° S5/SDR11

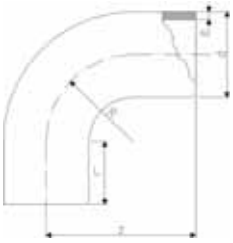


Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
20	BCF, IR	**728 158 506**	0.007	32	24	1.9
25	BCF, IR	**728 158 507**	0.002	34	25	2.3
32	BCF, IR	**728 158 508**	0.019	36	25	2.9
40	BCF, IR	**728 158 509**	0.037	39	25	3.7
50	BCF, IR	**728 158 510**	0.054	42	26	4.6
63	BCF, IR	**728 158 511**	0.097	47	29	5.8

PROGEF Natural bend 90° S5/SDR11 - 0.75d

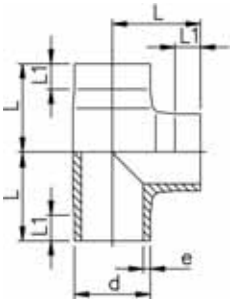


Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11

d [mm]	FM	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
20	IR, BCF	**728 018 606**	0.007	38	23	15	1.9
25	IR, BCF	**728 018 607**	0.012	42	23	19	2.3
32	IR, BCF	**728 018 608**	0.026	46	22	24	2.9
40	IR, BCF	**728 018 609**	0.038	51	21	30	3.7
50	IR, BCF	**728 018 610**	0.065	58	21	37	4.6
63	IR, BCF	**728 018 611**	0.115	66	21	45	5.8

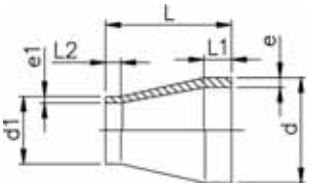
PROGEF Natural tee 90° equal S5/SDR11



Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
20	BCF, IR	**728 208 506**	0.011	38	24	1.9
25	BCF, IR	**728 208 507**	0.019	42	26	2.3
32	BCF, IR	**728 208 508**	0.032	46	26	2.9
40	BCF, IR	**728 208 509**	0.059	51	23	3.7
50	BCF, IR	**728 208 510**	0.101	58	22	4.6
63	BCF, IR	**728 208 511**	0.182	66	20	5.8



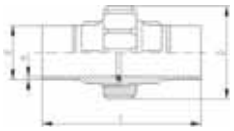
PROGEF Natural reducer S5/SDR11

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11

d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
25	20	BCF, IR	**728 908 537**	0.007	50	20	20	2.3	1.9
32	20	BCF, IR	**728 908 542**	0.010	50	20	20	3.0	1.9
32	25	BCF, IR	**728 908 541**	0.011	50	20	20	3.0	2.3
40	20	BCF, IR	**728 908 548**	0.015	58	20	23	3.7	1.9
40	25	BCF, IR	**728 908 547**	0.016	55	20	20	3.7	2.3
40	32	BCF, IR	**728 908 546**	0.019	55	20	20	3.7	2.9
50	25	BCF, IR	**728 908 554**	0.025	60	20	20	4.6	2.3
50	32	BCF, IR	**728 908 553**	0.027	60	20	20	4.6	2.9
50	40	BCF, IR	**728 908 552**	0.030	60	20	20	4.6	3.7
63	32	BCF, IR	**728 908 560**	0.043	65	20	20	5.8	2.9
63	40	BCF, IR	**728 908 559**	0.047	65	20	20	5.8	3.7
63	50	BCF, IR	**728 908 558**	0.052	65	20	20	5.8	4.6

EPDM 28 51 85
FPM 28 52 85



PROGEF Natural sanitary union S5/SDR11

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11
- Only EPDM codes meet FDA compliance.

d [mm]	FM	EPDM Code	FPM Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
20	BCF, IR	**728 518 526**	**728 528 526**	0.048	48	107	53	25	1.9
25	BCF, IR	**728 518 527**	**728 528 527**	0.076	58	113	56	25	2.3
32	BCF, IR	**728 518 528**	**728 528 528**	0.106	65	119	59	25	2.9
40	BCF, IR	**728 518 529**	**728 528 529**	0.147	79	126	63	25	3.7
50	BCF, IR	**728 518 530**	**728 528 530**	0.194	91	131	65	25	4.6
63	BCF, IR	**728 518 531**	**728 528 531**	0.343	111	137	68	25	5.8

PROGEF Natural union bush S5/SDR11

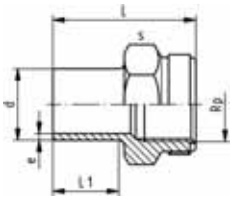
Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207 part 11

d [mm]	PN	FM	Code	kg	G [inch]	L [mm]	L1 [mm]	e [mm]
20	10	BCF, IR	**728 648 526**	0.012	1	54	26	1.9
25	10	BCF, IR	**728 648 527**	0.020	1 1/4	57	26	2.3
32	10	BCF, IR	**728 648 528**	0.029	1 1/2	60	25	2.9
40	10	BCF, IR	**728 648 529**	0.047	2	63	25	3.7
50	10	BCF, IR	**728 648 530**	0.072	2 1/4	66	25	4.6
63	10	BCF, IR	**728 648 531**	0.104	2 3/4	69	25	5.8

Adaptor fittings for butt fusion

PROGEF Natural adaptor socket metric Rp

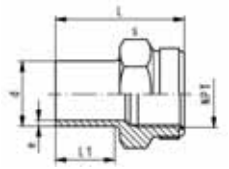


Model:

- Material: PP-R unpigmented
- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP

d [mm]	FM	Rp [inch]	PN	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	BCF, IR	½	10	**728 918 056**	0.014	49	28	32	1,9
25	BCF, IR	¾	10	**728 918 057**	0.022	51	28	36	2,3
32	BCF, IR	1	10	**728 918 058**	0.039	54	28	46	2,9
40	BCF, IR	1 ¼	10	**728 918 059**	0.057	56	28	55	3,7
50	BCF, IR	1 ½	10	**728 918 060**	0.085	60	28	64	4,6
63	BCF, IR	2	10	**728 918 061**	0.140	62	28	80	5,8

PROGEF Natural adaptor socket metric NPT

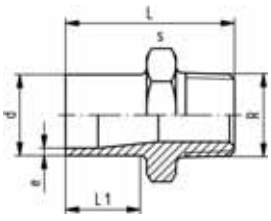


Model:

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

d [mm]	FM	NPT [inch]	PN	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	BCF, IR	½	10	**728 914 056**	0.016	49	28	32	1.9
25	BCF, IR	¾	10	**728 914 057**	0.019	51	28	36	2.3
32	BCF, IR	1	10	**728 914 058**	0.039	54	28	46	2.9
40	BCF, IR	1 ¼	10	**728 914 059**	0.052	56	28	55	3.7
50	BCF, IR	1 ½	10	**728 914 060**	0.085	60	28	64	4.6
63	BCF, IR	2	10	**728 914 061**	0.140	62	28	80	5.8

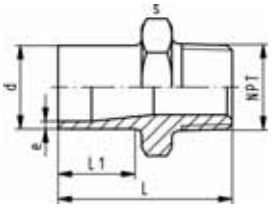
PROGEF Natural adaptor nipple metric R



Model:

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

d [mm]	FM	R [inch]	PN	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	BCF, IR	½	10	**728 918 106**	0.013	51	28	32	1,9
25	BCF, IR	¾	10	**728 918 107**	0.017	52	28	36	2,3
32	BCF, IR	1	10	**728 918 108**	0.027	55	28	46	2,9
40	BCF, IR	1 ¼	10	**728 918 109**	0.037	58	28	55	3,7
50	BCF, IR	1 ½	10	**728 918 110**	0.052	60	28	65	4,6
63	BCF, IR	2	10	**728 918 111**	0.092	67	28	80	5,8

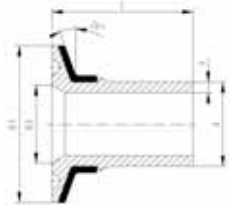


PROGEF Natural adaptor nipple metric NPT

Model:

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

d [mm]	NPT [inch]	PN	FM	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	10	BCF, IR	**728 914 106**	0.013	51	28	32	1.9
25	¾	10	BCF, IR	**728 914 107**	0.017	52	28	36	2.3
32	1	10	BCF, IR	**728 914 108**	0.027	55	28	46	2.9
40	1 ¼	10	BCF, IR	**728 914 109**	0.039	58	28	55	3.7
50	1 ½	10	BCF, IR	**728 914 110**	0.054	60	28	65	4.6
63	2	10	BCF, IR	**728 914 111**	0.093	67	28	80	5.8



PROGEF Natural sanitary adaptor Connection to ISO 1127

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainless steel reinforcement ring

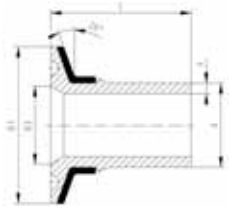
d [mm]	FM	DN [mm]	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
20	BCF, IR	15	10	**728 598 006**	0.031	50	18	49.0	1,9
25	BCF, IR	20	10	**728 598 008**	0.029	50	23	49.5	2,3
25	BCF, IR	25	10	**728 598 009**	0.029	50	29	49.5	2,3
32	BCF, IR	25	10	**728 598 010**	0.030	50	29	53.0	2,9
40	BCF, IR	32	10	**728 598 014**	0.054	64	38	54.0	3,7
50	BCF, IR	40	10	**728 598 016**	0.064	64	44	61.0	4,6
63	BCF, IR	50	10	**728 598 018**	0.097	77	56	67.0	5,8

PROGEF Natural sanitary adaptor Connection to DIN 32676

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainless steel reinforcement ring

d [mm]	FM	DN [mm]	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
20	BCF, IR	15	10	**728 598 056**	0.013	34	16	49.0	1,9
20	BCF, IR	20	10	**728 598 057**	0.013	34	20	49.0	1,9
25	BCF, IR	25	10	**728 598 059**	0.032	50	26	49.5	2,3
32	BCF, IR	32	10	**728 598 062**	0.031	50	32	53.0	2,9
40	BCF, IR	40	10	**728 598 065**	0.036	50	38	54.0	3,7
50	BCF, IR	50	10	**728 598 067**	0.060	64	50	61.0	4,6

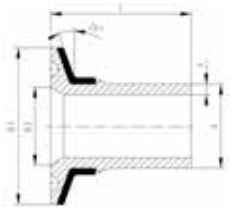


PROGEF Natural sanitary adaptor Connection to DIN 3017

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainless steel reinforcement ring

d [mm]	FM	DN [mm]	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
25	BCF, IR	25	10	**728 598 259**	0.031	50	22	49.5	2,3
32	BCF, IR	32	10	**728 598 262**	0.031	50	32	53.0	2,9
40	BCF, IR	40	10	**728 598 265**	0.033	50	35	54.0	3,7
50	BCF, IR	50	10	**728 598 267**	0.061	64	49	61.0	4,6
63	BCF, IR	65	10	**728 598 269**	0.093	78	60	67.0	5,8

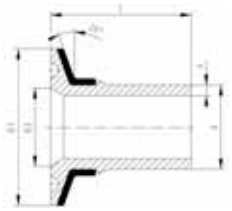


PROGEF Natural sanitary adaptor Connection to ISO 2852

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainless steel reinforcement ring

d [mm]	FM	DN [mm]	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
25	BCF, IR	25	10	**728 598 309**	0.027	51	22	50	2,3
32	BCF, IR	32	10	**728 598 312**	0.031	51	32	53	2,9
40	BCF, IR	40	10	**728 598 315**	0.033	51	35	54	3,7
50	BCF, IR	50	10	**728 598 317**	0.061	64	49	61	4,6
63	BCF, IR	65	10	**728 598 319**	0.093	78	60	67	5,8



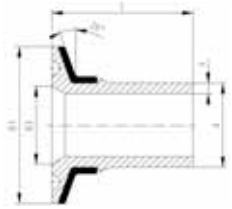
PROGEF Natural sanitary adaptor Connection to ASME BPE

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainless steel reinforcement ring

* Without stainless steel reinforcement ring

d [mm]	FM	Inch	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
* 20	BCF, IR	3/4	10	**728 598 357**	0.005	25	16	49	1.9
25	BCF, IR	1	10	**728 598 359**	0.029	51	22	50	2.3
32	BCF, IR	1 1/4	10	**728 598 362**	0.030	51	35	53	2.9
40	BCF, IR	1 1/2	10	**728 598 365**	0.037	51	35	54	3.7
50	BCF, IR	2	10	**728 598 367**	0.063	64	48	61	4.6
63	BCF, IR	2 1/2	10	**728 598 369**	0.096	78	60	67	5.8

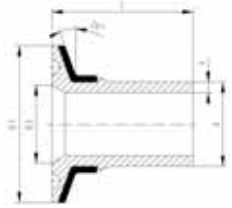


PROGEF Natural sanitary adaptor Connection to JIS G3447

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainless steel reinforcement ring

d [mm]	FM	DN	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
20	BCF, IR	15 A	10	**728 598 406**	0.014	34	18	49.0	1,9
25	BCF, IR	1 S	10	**728 598 408**	0.032	50	23	49.5	2,3
32	BCF, IR	1 1/4 S	10	**728 598 410**	0.033	50	30	53.0	2,9
40	BCF, IR	1 1/2 S	10	**728 598 414**	0.033	50	35	54.0	3,7
50	BCF, IR	2 S	10	**728 598 416**	0.061	64	48	61.0	4,6
63	BCF, IR	2 1/2 S	10	**728 598 418**	0.093	78	60	67.0	5,8



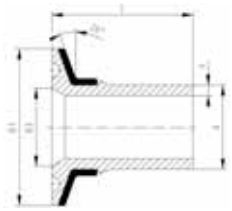
PROGEF Natural sanitary adaptor Connection to 3A standard

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainless steel reinforcement ring

* Without stainless steel reinforcement ring

d [mm]	FM	Inch	PN	Code	kg	D1 [mm]	D3 [mm]	L [mm]	e [mm]
* 20	BCF, IR	3/4	10	**728 598 207**	0.006	25	16	49.0	1,9
25	BCF, IR	1	10	**728 598 209**	0.031	50	22	49.5	2,3
32	BCF, IR	1 1/2	10	**728 598 213**	0.032	50	35	53.0	2,9
40	BCF, IR	1 1/2	10	**728 598 215**	0.033	50	35	54.0	3,7
50	BCF, IR	2	10	**728 598 217**	0.062	64	48	61.0	4,6
63	BCF, IR	2 1/2	10	**728 598 219**	0.093	78	60	67.0	5,8



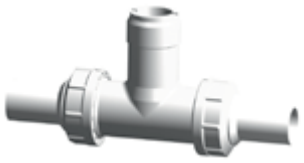
PROGEF Natural sanitary adaptor Connection to membrane manometer

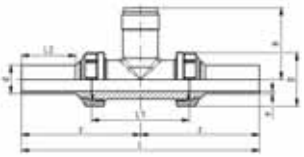
Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainless steel reinforcement ring

d [mm]	FM	DN [mm]	PN	Code	kg	e [mm]	D1 [mm]	D3 [mm]	L [mm]
20	BCF, IR	15	10	**728 598 516**	0.029	1,9	50	34	49
25	BCF, IR	20	10	**728 598 518**	0.027	2,3	50	34	50
32	BCF, IR	25	10	**728 598 520**	0.032	2,9	50	34	53

28 31 81





PROGEF Natural installation fitting type 318 For butt fusion systems metric

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Union end with butt fusion spigot PP-R

Range of use:

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

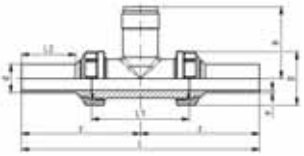
Attention:

- sensor length depends on installation fitting

d [mm]	DN [mm]	PN	FM	EPDM Code	FPM Code	kg
20	15	10	BCF, IR	**728 318 106**	**728 318 136**	0.250
25	20	10	BCF, IR	**728 318 107**	**728 318 137**	0.190
32	25	10	BCF, IR	**728 318 108**	**728 318 138**	0.250
40	32	10	BCF, IR	**728 318 109**	**728 318 139**	0.356
50	40	10	BCF, IR	**728 318 110**	**728 318 140**	0.510
63	50	10	BCF, IR	**728 318 111**	**728 318 141**	0.800

d [mm]	D [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	e [mm]	Sensor Type
20	45	99	198	90	38	76	1.9	flow X0, pH XX
25	55	107	214	100	42	78	2.3	flow X0, pH XX
32	62	115	230	110	41	81	2.9	flow X0, pH XX
40	75	118	236	110	42	85	3.7	flow X0, pH XX
50	84	126	252	120	44	89	4.6	flow X0, pH XX
63	101	134	268	130	45	95	5.8	flow X0, pH XX

27 31 80



PROGEF Natural installation fitting type 318 For butt fusion systems metric

Model:

- Body and union nut PVDF
- Threaded outlet 1 ¼" NPSM
- Union end with butt fusion spigot PP-R

Range of use:

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

Attention:

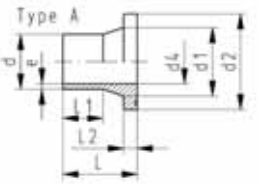
- sensor length depends on installation fitting

d [mm]	DN [mm]	PN	FM	EPDM Code	FPM Code	kg
20	15	10	BCF, IR	**728 318 006**	**728 318 036**	0.250
25	20	10	BCF, IR	**728 318 007**	**728 318 037**	0.355
32	25	10	BCF, IR	**728 318 008**	**728 318 038**	0.427
40	32	10	BCF, IR	**728 318 009**	**728 318 039**	0.700
50	40	10	BCF, IR	**728 318 010**	**728 318 040**	0.850
63	50	10	BCF, IR	**728 318 011**	**728 318 041**	1.182

d [mm]	D [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	e [mm]	Sensor Type
20	45	99	198	90	38	76	1.9	flow X0, pH XX
25	55	107	214	100	42	78	2.3	flow X0, pH XX
32	62	115	230	110	41	81	2.9	flow X0, pH XX
40	75	118	236	110	42	85	3.7	flow X0, pH XX
50	84	126	252	120	44	89	4.6	flow X0, pH XX
63	101	134	268	130	45	95	5.8	flow X0, pH XX

Flange Adaptors, Flanges and Gaskets for Butt Fusion

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

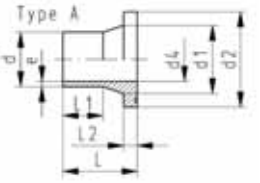


Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

d [mm]	DN [mm]	FM	Code	kg	d1 [mm]	d2 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
20	15	WNF/IR	**728 798 706**	0.015	27	45	16	50	29	7	1.9
25	20	WNF/IR	**728 798 707**	0.028	33	58	20	52	27	9	2.3
32	25	WNF/IR	**728 798 708**	0.042	40	68	26	54	28	10	3.0
40	32	WNF/IR	**728 798 709**	0.064	50	78	32	56	25	11	3.7
50	40	WNF/IR	**728 798 710**	0.092	61	88	40	62	32	12	4.6
63	50	WNF/IR	**728 798 711**	0.142	75	102	51	68	38	14	5.8

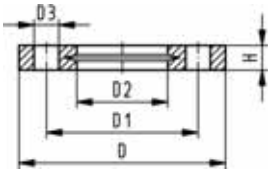
Flange Adapter - ANSI Serrated, PN 10, Natural PP



d [mm]	FM	Code	kg	e [mm]	d1 [mm]	d2 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]
20	WNF/IR	**728 798 706**	0.015	1.9	27	45	16	50	29	7
25	BCF, IR	**728 798 657**	0.028	2.3	33	54	20	52	27	9
32	BCF, IR	**728 798 658**	0.042	3.0	40	63	26	54	28	10
40	BCF, IR	**728 798 659**	0.064	3.7	50	73	32	56	25	11
50	BCF, IR	**728 798 660**	0.091	4.6	61	82	40	62	32	12
63	WNF/IR	**728 798 711**	0.142	5.8	75	102	51	68	38	14
75	IR	**728 798 787**	0.202	4.5	89	122	66	70	16	
90	IR	**728 798 788**	0.271	5.4	105	138	79	79	17	
110	IR	**728 798 789**	0.354	6.6	125	158	96	82	18	

27 70 04
27 70 05

Backing flange PP-V
For butt fusion systems metric



Model:

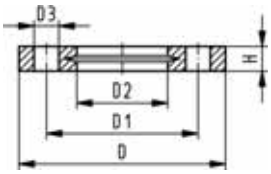
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN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

* Combined version, metric-ANSI
AL: number of holes
[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1]) 20	15	16	**727 700 406**	0.093	95	65.0	28	14	16	4	M12
[1]) 25	20	16	**727 700 407**	0.120	105	75.0	34	14	17	4	M12
[1]) 32	25	16	**727 700 408**	0.151	115	85.0	42	14	18	4	M12
[1]) 40	32	16	**727 700 409**	0.244	140	100.0	51	18	20	4	M16
[1]) 50	40	16	**727 700 410**	0.297	150	110.0	62	18	22	4	M16
[1]) 63	50	16	**727 700 411**	0.362	165	125.0	78	18	24	4	M16

27 70 14
27 70 15

Backing flange PP-V
For butt fusion systems Inch ANSI



Model:

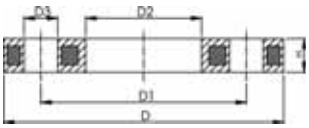
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes
* Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1] ½	15	20	16	**727 701 406**	0.091	95	60.0	28	16	16	4	M12
[1] ¾	20	25	16	**727 701 407**	0.120	105	70.0	34	16	17	4	M12
[1] 1	25	32	16	**727 701 408**	0.147	115	79.0	42	16	18	4	M12
[1] 1 ¼	32	40	16	**727 701 409**	0.246	140	89.0	51	16	20	4	M16
[1] 1 ½	40	50	16	**727 701 410**	0.299	150	98.0	62	16	22	4	M16
[1] 2	50	63	16	**727 701 411**	0.361	165	121.0	78	19	24	4	M16
[1] 2 ½	65	75	16	**727 701 412**	0.492	185	140.0	92	19	26	4	M16
3	80	90	16	**727 701 513**	0.607	200	152.0	108	19	27	4	M16
4	100	110	16	**727 701 514**	0.736	229	190.0	128	19	28	8	M16
10	250	250	16	**727 701 521**	2.241	406	362.0	288	26	38	12	M20
10	250	280	16	**727 701 522**	2.173	406	362.0	294	26	38	12	M20
12	300	315	16	**727 701 523**	3.627	483	432.0	338	26	42	12	M20

27 70 02
27 70 03

Backing flange PP-Steel
For butt fusion systems metric



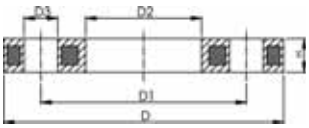
Model:

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

AL: number of holes

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20	15	16	**727 700 206**	0.216	95	65	28	14	12	4	M12
25	20	16	**727 700 207**	0.279	105	75	34	14	12	4	M12
32	25	16	**727 700 208**	0.429	115	85	42	14	16	4	M12
40	32	16	**727 700 209**	0.621	140	100	51	18	16	4	M16
50	40	16	**727 700 210**	0.722	150	110	62	18	20	4	M16
63	50	16	**727 700 211**	1.084	165	125	78	18	20	4	M16

27 70 12



Backing flange PP-Steel
For butt fusion systems Inch ANSI

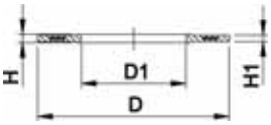
Model:

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

AL: number of holes

d [inch]	DN [mm]	d [mm]	PN	Code	kg	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	SC
½	15	20	16	**727 701 206**	0.213	60	28	16	95	12	4	M12
¾	20	25	16	**727 701 207**	0.260	70	34	16	105	12	4	M12
1	25	32	16	**727 701 208**	0.416	79	42	16	115	16	4	M12
1 ¼	32	40	16	**727 701 209**	0.730	89	51	16	140	16	4	M16
1 ½	40	50	16	**727 701 210**	0.809	98	62	16	150	18	4	M16
2	50	63	16	**727 701 211**	0.866	121	78	19	165	18	4	M16
2 ½	65	75	16	**727 701 212**	1.117	140	92	19	185	18	4	M16
3	80	90	16	**727 701 313**	1.499	152	108	19	200	20	4	M16
4	100	110	16	**727 701 314**	1.739	190	128	19	229	20	8	M16
8	200	200	16	**727 701 319**	5.440	298	235	22	340	27	8	M20
8	200	225	16	**727 701 320**	5.621	298	238	22	340	27	8	M20

EPDM 48 44 07
FPM 49 44 07



Profile flange gasket metric

Model:

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

di FA are the suitable inner diameters of flange adaptors

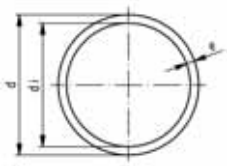
d [mm]	DN [mm]	PN	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
20	15	16	**748 440 706**	**749 440 706**	0.013	51	20	4	3	10 - 20
25	20	16	**748 440 707**	**749 440 707**	0.014	61	22	4	3	12 - 22
32	25	16	**748 440 708**	**749 440 708**	0.019	71	28	4	3	18 - 28
40	32	16	**748 440 709**	**749 440 709**	0.026	82	40	4	3	30 - 40
50	40	16	**748 440 710**	**749 440 710**	0.039	92	46	4	3	36 - 46
63	50	16	**748 440 711**	**749 440 711**	0.050	107	58	5	4	48 - 58

PROGEF® Plus General Information

– Pipes
– Butt Fusion System

Pipes

PROGEF Plus S5/SDR11 (PN10)



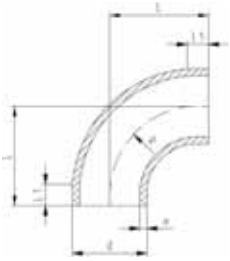
Model:

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

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

Fittings for Butt Fusion

PROGEF Plus bend 90° S5/SDR11

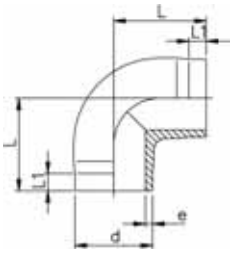


Model:

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

d [mm]	FM	Code	L [mm]	L1 [mm]	R [mm]	e [mm]
20	IR	**727 018 681**	38	23	15	1,9
25	IR	**727 018 682**	42	23	19	2,3
32	IR	**727 018 683**	46	22	24	2,9
40	IR	**727 018 684**	51	21	30	3,7
50	IR	**727 018 685**	58	21	37	4,6
63	IR	**727 018 686**	66	21	45	5,8
75	IR	**727 018 662**	100	20	90	6,8
90	IR	**727 018 663**	100	20	90	8,2
110	IR	**727 018 664**	141	25	130	10,0
125	IR	**727 018 475**	140	15	125	11,4
140	IR	**727 018 476**	155	15	140	12,7
160	IR	**727 018 477**	175	15	160	14,6
180	IR	**727 018 478**	195	15	180	16,4
200	IR	**727 018 479**	215	15	200	18,2
225	IR	**727 018 480**	245	20	225	20,5
250	--	**727 018 450**	256	49	232	22,7
280	--	**727 018 451**	286	44	262	25,4
315	--	**727 018 452**	321	51	297	28,6

PROGEF Plus elbow 90° S5/SDR11

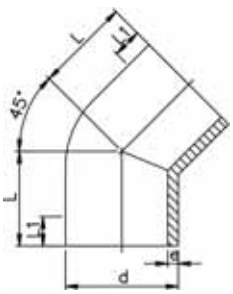


Model:

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

d [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
20	IR	**727 108 581**	38	25	1,9
25	IR	**727 108 582**	42	26	2,3
32	IR	**727 108 583**	46	27	2,9
40	IR	**727 108 584**	51	22	3,7
50	IR	**727 108 585**	58	23	4,6
63	IR	**727 108 586**	66	21	5,8

PROGEF Plus elbow 45° S5/SDR11



Model:

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

[1] Material: PP-R

d [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
20	IR	**727 158 581**	32	24	1,9
25	IR	**727 158 582**	34	25	2,3
32	IR	**727 158 583**	36	25	2,9
40	IR	**727 158 584**	39	25	3,7
50	IR	**727 158 585**	42	26	4,6
63	IR	**727 158 586**	47	29	5,8
75	IR	**727 158 587**	49	29	6,8
90	IR	**727 158 588**	57	34	8,2

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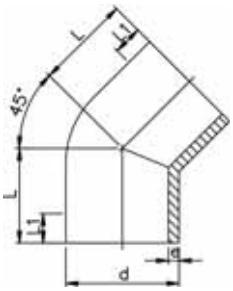
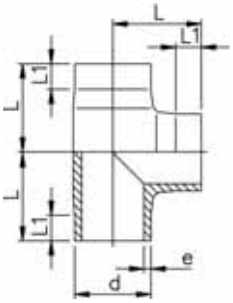


d [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
110	IR	**727 158 589**	70	43	10,0
125	IR	**727 158 590**	79	48	11,4
140	IR	**727 158 591**	88	55	12,7
160	IR	**727 158 592**	100	60	14,6
200	IR	**727 158 594**	124	75	18,2
225	IR	**727 158 595**	140	85	20,5
1 250	--	**727 158 596**	225	133	22,7
1 280	--	**727 158 597**	235	143	25,4
1 315	--	**727 158 598**	255	154	28,6

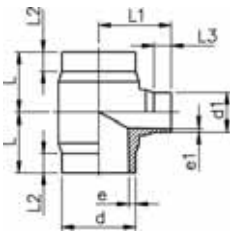


PROGEF Plus tee 90° equal S5/SDR11

Model:

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

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



Tee 90° reducing, S5/SDR11

Model:

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

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

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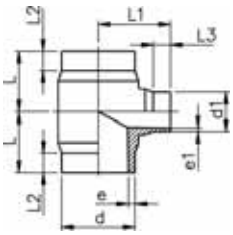


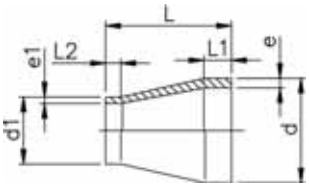
d [mm]	d1 [mm]	FM	Code	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
225	90	IR	**727 208 288**	155	165	40	30	20,5	8,2
225	110	IR	**727 208 289**	155	165	40	30	20,5	10,0
225	160	IR	**727 208 291**	155	165	40	30	20,5	14,6

Reducers, S5/SDR11

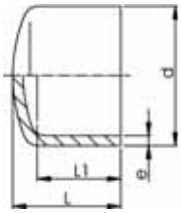
Model:

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

[1] Material: PP-R



d [mm]	d1 [mm]	FM	Code	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
25	20	IR	**727 908 637**	50	20	20	2,3	1,9
32	20	IR	**727 908 642**	50	20	20	2,9	1,9
32	25	IR	**727 908 641**	50	20	20	2,9	2,3
40	20	IR	**727 908 648**	58	20	23	3,7	1,9
40	25	IR	**727 908 647**	55	20	20	3,7	2,3
40	32	IR	**727 908 646**	55	20	20	3,7	2,9
50	25	IR	**727 908 654**	60	20	20	4,6	2,3
50	32	IR	**727 908 653**	60	20	20	4,6	2,9
50	40	IR	**727 908 652**	60	20	20	4,6	3,7
63	32	IR	**727 908 660**	65	20	20	5,8	2,9
63	40	IR	**727 908 659**	65	20	20	5,8	3,7
63	50	IR	**727 908 658**	65	20	20	5,8	4,6
75	40	IR	**727 908 666**	68	20	20	6,8	3,7
75	50	IR	**727 908 665**	65	20	20	6,8	4,6
75	63	IR	**727 908 664**	65	20	20	6,8	5,8
90	63	IR	**727 908 671**	75	22	19	8,2	5,8
90	75	IR	**727 908 670**	75	21	19	8,2	6,8
110	75	IR	**727 908 677**	90	28	18	10,0	6,8
110	90	IR	**727 908 676**	90	28	20	10,0	8,2
125	110	IR	**727 908 680**	100	31	30	11,4	10,0
140	110	IR	**727 908 685**	110	33	29	12,7	10,0
140	125	IR	**727 908 684**	110	34	30	12,7	11,4
160	110	IR	**727 908 690**	120	38	27	14,6	10,0
160	140	IR	**727 908 688**	120	40	35	14,6	12,7
180	90	IR	**727 908 691**	157	45	22	16,4	8,2
180	110	IR	**727 908 955**	157	45	28	16,4	10,0
180	125	IR	**727 908 698**	136	45	32	16,4	11,4
180	140	IR	**727 908 699**	136	45	35	16,4	12,7
180	160	IR	**727 908 952**	136	45	40	16,4	14,6
200	160	IR	**727 908 692**	145	50	40	18,2	14,6
200	180	IR	**727 908 693**	151	50	45	18,2	16,4
225	110	IR	**727 908 695**	160	55	35	20,5	10,0
225	160	IR	**727 908 696**	160	55	40	20,5	14,6
225	180	IR	**727 908 694**	171	55	45	20,5	16,4
225	200	IR	**727 908 697**	160	55	50	20,5	18,2
250	160	--	**727 908 700**	194	60	40	22,7	14,6
250	225	--	**727 908 701**	182	60	55	22,7	20,5
[1] 280	225	--	**727 908 702**	200	85	80	25,4	20,5
[1] 280	250	--	**727 908 703**	200	85	90	25,4	22,7
[1] 315	225	--	**727 908 704**	230	95	88	28,6	20,5
[1] 315	250	--	**727 908 705**	230	95	95	28,6	22,7
[1] 315	280	--	**727 908 706**	230	95	107	28,6	25,4



End Caps, S5/SDR11

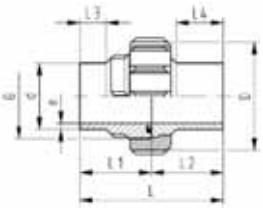
Model:

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

d [mm]	FM	Code	L [mm]	L1 [mm]	e [mm]
20	IR	**727 968 981**	45	35	1,9
25	IR	**727 968 982**	52	40	2,3
32	IR	**727 968 983**	58	44	2,9
40	IR	**727 968 984**	67	50	3,7
50	IR	**727 968 985**	75	55	4,6
63	IR	**727 968 986**	85	62	5,8
75	IR	**727 968 987**	95	63	6,8
90	IR	**727 968 988**	110	79	8,2
110	IR	**727 968 989**	127	88	10,0
125	IR	**727 968 990**	138	102	11,4
140	IR	**727 968 991**	144	106	12,7
160	IR	**727 968 992**	154	109	14,6
180	IR	**727 968 993**	191	141	16,4
200	IR	**727 968 994**	181	127	18,2
225	IR	**727 968 995**	211	141	20,5

Unions for Butt Fusion

EPDM 27 51 86
FPM 27 52 86



PROGEF Plus union S5/SDR11

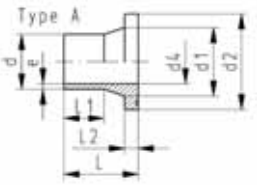
Model:

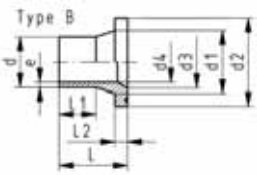
- Material: PP-H
- With butt fusion ends
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Cleaned and double bagged

d [mm]	PN	D [mm]	FM	EPDM Code	FPM Code
20	10	48	IR	**727 518 606**	**727 528 606**
25	10	58	IR	**727 518 607**	**727 528 607**
32	10	65	IR	**727 518 608**	**727 528 608**
40	10	79	IR	**727 518 609**	**727 528 609**
50	10	91	IR	**727 518 610**	**727 528 610**
63	10	111	IR	**727 518 611**	**727 528 611**
75	10	135	IR	**727 518 612**	**727 528 612**
90	10	135	IR	**727 518 613**	**727 528 613**
110	10	158	IR	**727 518 614**	**727 528 614**

d [mm]	G [inch]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	O-Ring EPDM	O-Ring FPM	Size
20	1	107	54	53	26	1,9	748.413.006	749.413.006	20,22 x 3,53
25	1 1/4	113	57	56	26	2,3	748.413.007	749.413.007	28,17 x 3,53
32	1 1/2	119	60	59	26	2,9	748.413.008	749.413.008	32,93 x 3,53
40	2	126	63	63	26	3,7	748.413.009	749.413.009	40,65 x 5,34
50	2 1/4	131	66	66	26	4,6	748.413.010	749.413.010	47,00 x 5,34
63	2 3/4	137	69	68	26	5,8	748.413.011	749.413.011	59,69 x 5,34
75	S107,5x3,6	132	66	66	24	6,8	748.413.013	749.413.013	69,22 x 5,34
90	S107,5x3,6	131	66	66	24	8,2	748.413.014	749.413.014	81,92 x 5,34
110	S127,5x3,6	131	66	66	25	10,0	748.413.015	749.413.015	101,00 x 5,34

Flange Adaptors, Flanges and Gaskets for Butt Fusion





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

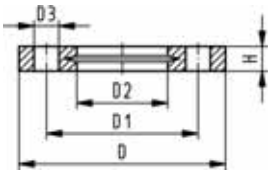
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H
- Suitable for flange connections to metric **(from d110 also to ANSI/ASME B16.5)**
- Up to d315, suitable for butterfly valve type 567/568
- Up to d280, suitable for butterfly valve type 037/038/039
- Gasket: Profile flange gasket EPDM No. 48 44 17, FPM No. 49 44 17
- Cleaned and double bagged

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

27 70 14
27 70 15

Backing flange PP-V
For butt fusion systems Inch ANSI



Model:

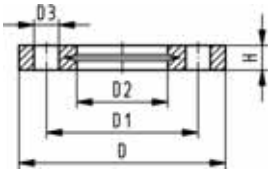
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes
* Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1] ½	15	20	16	**727 701 406**	95	60.0	28	16	16	4	M12
[1] ¾	20	25	16	**727 701 407**	105	70.0	34	16	17	4	M12
[1] 1	25	32	16	**727 701 408**	115	79.0	42	16	18	4	M12
[1] 1 ¼	32	40	16	**727 701 409**	140	89.0	51	16	20	4	M16
[1] 1 ½	40	50	16	**727 701 410**	150	98.0	62	16	22	4	M16
[1] 2	50	63	16	**727 701 411**	165	121.0	78	19	24	4	M16
[1] 2 ½	65	75	16	**727 701 412**	185	140.0	92	19	26	4	M16
3	80	90	16	**727 701 513**	200	152.0	108	19	27	4	M16
4	100	110	16	**727 701 514**	229	190.0	128	19	28	8	M16
10	250	250	16	**727 701 521**	406	362.0	288	26	38	12	M20
10	250	280	16	**727 701 522**	406	362.0	294	26	38	12	M20
12	300	315	16	**727 701 523**	483	432.0	338	26	42	12	M20

27 70 04
27 70 05

Backing flange PP-V
For butt fusion systems metric



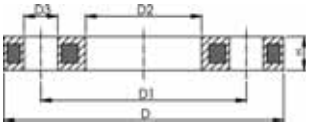
Model:

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

* Combined version, metric-ANSI
AL: number of holes
[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)

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

27 70 12



Backing flange PP-Steel
For butt fusion systems Inch ANSI

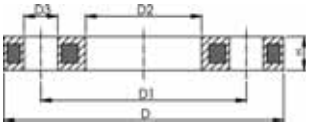
Model:

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

AL: number of holes

d [inch]	DN [mm]	d [mm]	PN	Code	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	SC
½	15	20	16	**727 701 206**	60	28	16	95	12	4	M12
¾	20	25	16	**727 701 207**	70	34	16	105	12	4	M12
1	25	32	16	**727 701 208**	79	42	16	115	16	4	M12
1 ¼	32	40	16	**727 701 209**	89	51	16	140	16	4	M16
1 ½	40	50	16	**727 701 210**	98	62	16	150	18	4	M16
2	50	63	16	**727 701 211**	121	78	19	165	18	4	M16
2 ½	65	75	16	**727 701 212**	140	92	19	185	18	4	M16
3	80	90	16	**727 701 313**	152	108	19	200	20	4	M16
4	100	110	16	**727 701 314**	190	128	19	229	20	8	M16
8	200	200	16	**727 701 319**	298	235	22	340	27	8	M20
8	200	225	16	**727 701 320**	298	238	22	340	27	8	M20

27 70 02
27 70 03



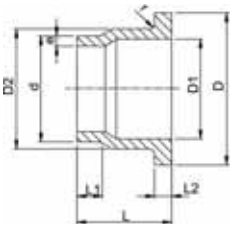
Backing flange PP-Steel
For butt fusion systems metric

Model:

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

AL: number of holes

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



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

Model:

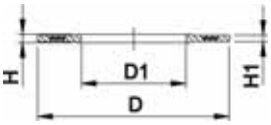
- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207 part 11
- To wafer check valves Type 369
- Cleaned and double bagged

Attention:

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

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

EPDM 48 44 17
FPM 49 44 17



Profile flange gasket silicone free

Model:

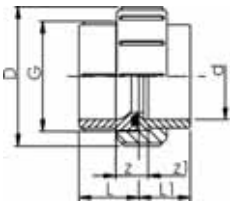
- Silicone free / paint-compatible
- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**

di FA are the suitable inner diameters of flange adaptors

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

Unions for Socket Fusion

EPDM 27 51 02
FPM 27 52 02



PROGEF Plus union

Model:

- Material: PP-H
- Fusion socket metric
- D75-110 with new thread geometry, now rated PN10 up to d110
- Jointing face: with O-Ring
- Cleaned and double bagged

d [mm]	PN	EPDM Code	FPM Code
16	10	**727 510 255**	**727 520 255**
20	10	**727 510 256**	**727 520 256**
25	10	**727 510 257**	**727 520 257**
32	10	**727 510 258**	**727 520 258**
40	10	**727 510 259**	**727 520 259**
50	10	**727 510 260**	**727 520 260**
63	10	**727 510 261**	**727 520 261**
75	10	**727 510 272**	**727 520 272**
90	10	**727 510 273**	**727 520 273**
110	10	**727 510 274**	**727 520 274**

d [mm]	D [mm]	G [inch]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	O-Ring EPDM	O-Ring FPM	Size
16	35	3/4	24	18	5	11	748.413.005	749.413.005	15,54 x 2,62
20	48	1	26	19	5	12	748.413.006	749.413.006	20,22 x 3,53
25	58	1 1/4	28	21	5	12	748.413.007	749.413.007	28,17 x 3,53
32	65	1 1/2	30	23	5	12	748.413.008	749.413.008	32,93 x 3,53
40	79	2	34	25	5	14	748.413.009	749.413.009	40,65 x 5,54
50	91	2 1/4	39	28	5	16	748.413.010	749.413.010	47,00 x 5,34
63	111	2 3/4	47	32	5	20	748.413.011	749.413.011	59,69 x 5,34
75	135	S107,5x3,6	51	36	5	20	748.413.014	749.413.014	81,92 x 5,34
90	158	S127,5x3,6	55	42	7	20	748.413.015	749.413.015	101,00 x 5,34
110	188	S152,5x3,6	54	49	7	12	748.413.016	748.413.016	120,00 x 6,99

PE 100

– Pipes
– Socket Fusion Fittings
– Butt Fusion Fittings
– Electrofusion Fittings

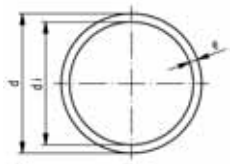
Pressure Ratings for PE-Fittings and PE-Pipes

		SDR11	SDR17.6
PE 80	C = 1.25	PN12.5	PN7.5
PE 80	C = 1.6	PN10	PN6
PE 100	C = 1.25	PN16	PN10
PE 100	C = 1.6	PN12.5	PN7.5

PE100 pipes

93 01 71

Pipe PE100 S5/SDR11



Model:

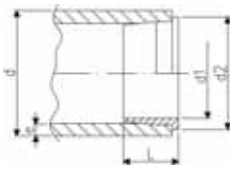
- Material: PE 100, Polyethylene
- Colour: RAL 9011 graphite black
- Dimension: DIN 8074
- Pipe length: 5m, with plain ends

* In these two sizes, stiffeners Code No. 733 900 006 (20 x 1,9) and 733 900 007 (25 x 2.3) must be used with socket fusion joints.

d [mm]	PN	Code	kg/m	e [mm]	di [mm]
* 20	16	**193 017 156**	0.113	1,9	16.2
* 25	16	**193 017 157**	0.173	2,3	20.4
32	16	**193 017 158**	0.274	2,9	26.2
40	16	**193 017 159**	0.434	3,7	32.6
50	16	**193 017 160**	0.673	4,6	40.8
63	16	**193 017 161**	1.060	5,8	51.4
75	16	**193 017 162**	1.480	6,8	61.4
90	16	**193 017 163**	2.140	8,2	73.6
110	16	**193 017 164**	3.180	10,0	90.0
125	16	**193 017 165**	4.120	11,4	102.8
140	16	**193 017 166**	5.130	12,7	114.6
160	16	**193 017 167**	6.740	14,6	130.8
180	16	**193 017 168**	8.510	16,4	147.2
200	16	**193 017 169**	10.500	18,2	163.6
225	16	**193 017 170**	13.300	20,5	184.0
250	16	**193 017 171**	16.300	22,7	204.6
280	16	**193 017 172**	20.500	25,4	229.2
315	16	**193 017 173**	25.900	28,6	257.8
355	16	**193 017 174**	32.900	32,2	290.6
400	16	**193 017 175**	41.700	36,3	327.4

33 90 00

Stiffener PE100



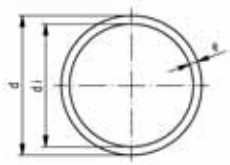
Model:

- Material: PE100
- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing suring the heating and jointing process.

d [mm]	Code	L [mm]	e [mm]	d1 [mm]	D2 [mm]	d2 [mm]
20	**733 900 006**	10	1,9	14	18	18
25	**733 900 007**	11	2,3	18	22	23

93 01 72

Pipe PE100 S3.2/SDR7.4



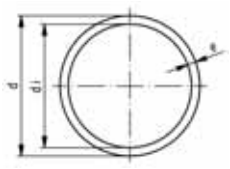
Model:

- Dimension: DIN 8074
- Colour: RAL 9011 graphite black
- Length: 5 m
- for socket fusion without stiffeners
- Not suitable for butt fusion

d [mm]	Code	kg/m	e [mm]	di [mm]
20	**193 017 206**	0.156	2,8	14.4
25	**193 017 207**	0.243	3,5	18.0

93 01 71

Pipe PE100 S8.3/SDR17.6



Model:

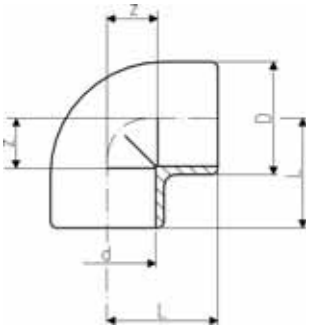
- Material: PE 100, Polyethylene
- Colour: RAL 9011 graphite black
- Dimension: DIN 8074
- Pipe length: 5m, with plain ends

d [mm]	PN	Code	kg/m	e [mm]	di [mm]
50	10	**193 017 110**	0.445	2,9	44.2
63	10	**193 017 111**	0.695	3,6	55.8
75	10	**193 017 112**	0.987	4,3	66.4
90	10	**193 017 113**	1.400	5,1	79.8
110	10	**193 017 114**	2.100	6,3	97.4
125	10	**193 017 115**	2.690	7,1	110.8
140	10	**193 017 116**	3.370	8,0	124.0
160	10	**193 017 117**	4.400	9,1	141.8
180	10	**193 017 118**	5.540	10,2	159.6
200	10	**193 017 119**	6.860	11,4	177.2
225	10	**193 017 120**	8.640	12,8	199.4
250	10	**193 017 121**	10.700	14,2	221.6
280	10	**193 017 122**	13.300	15,9	248.2
315	10	**193 017 123**	16.900	17,9	279.2
355	10	**193 017 124**	21.400	20,1	314.8
400	10	**193 017 125**	27.200	22,7	354.6
450	10	**193 017 126**	34.300	25,5	400.0
500	10	**193 017 127**	42.500	28,4	443.2

Fittings for Socket Fusion

33 10 01

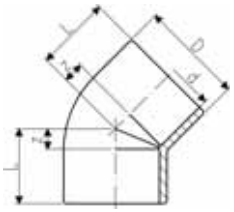
Elbow 90° PE80



d [mm]	PN	Code	kg	kg/m	D [mm]	L [mm]	z [mm]
20	10	**733 100 106**	0.022	0.022	31	28	14
25	10	**733 100 107**	0.031	0.031	36	32	16
32	10	**733 100 108**	0.048	0.048	44	38	20
40	10	**733 100 109**	0.078	0.078	54	44	24
50	10	**733 100 110**	0.129	0.129	66	51	28
63	10	**733 100 111**	0.228	0.228	82	62	35
75	10	**733 100 112**	0.311	0.311	93	76	45
90	10	**733 100 113**	0.498	0.498	110	88	53
110	10	**733 100 114**	0.864	0.864	134	106	65

33 15 01

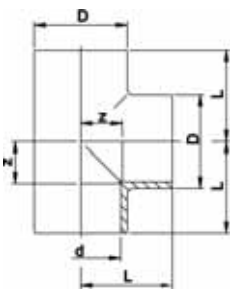
Elbow 45° PE80



d [mm]	PN	Code	kg	kg/m	D [mm]	L [mm]	z [mm]
20	10	**733 150 106**	0.018	0.018	31	21	7
25	10	**733 150 107**	0.026	0.026	36	24	8
32	10	**733 150 108**	0.043	0.043	44	28	10
40	10	**733 150 109**	0.061	0.061	53	33	13
50	10	**733 150 110**	0.087	0.087	64	36	13
63	10	**733 150 111**	0.184	0.184	82	43	16
75	10	**733 150 112**	0.229	0.229	93	51	20
90	10	**733 150 113**	0.357	0.357	114	58	23
110	10	**733 150 114**	0.653	0.653	134	68	27

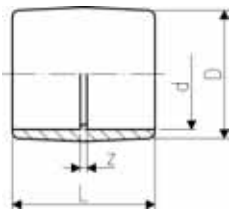
33 20 01

Tee 90° equal PE80



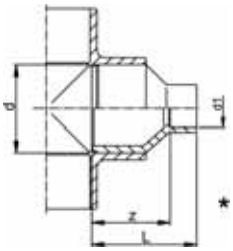
d [mm]	PN	Code	kg	kg/m	D [mm]	L [mm]	z [mm]
20	10	**733 200 106**	0.028	0.028	31	28	14
25	10	**733 200 107**	0.041	0.041	36	32	16
32	10	**733 200 108**	0.060	0.060	44	38	20
40	10	**733 200 109**	0.100	0.100	54	44	24
50	10	**733 200 110**	0.166	0.166	66	51	28
63	10	**733 200 111**	0.298	0.298	82	62	35
75	10	**733 200 112**	0.409	0.409	93	76	45
90	10	**733 200 113**	0.749	0.749	114	88	53
110	10	**733 200 114**	1.112	1.112	134	106	65

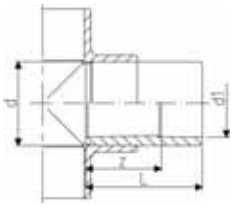
33 91 01 Sockets equal, PE80



d [mm]	PN	Code	kg	kg/m	D [mm]	L [mm]	z [mm]
20	10	**733 910 106**	0.014	0.014	31	35	7
25	10	**733 910 107**	0.018	0.018	36	39	7
32	10	**733 910 108**	0.027	0.027	44	43	7
40	10	**733 910 109**	0.043	0.043	54	48	8
50	10	**733 910 110**	0.074	0.074	66	54	8
63	10	**733 910 111**	0.124	0.124	82	62	8
75	10	**733 910 112**	0.152	0.152	93	70	8
90	10	**733 910 113**	0.234	0.234	112	81	11
110	10	**733 910 114**	0.419	0.419	134	96	14

33 91 03 Reducers, PE80





d [mm]	d1 [mm]	PN	Code	kg	kg/m	L [mm]	z [mm]
25	20	10	**733 910 337**	0.013	0.013	39	23
32	25	10	**733 910 341**	0.021	0.021	43	27
* 40	20	10	**733 910 348**	0.023	0.023	48	34
* 40	25	10	**733 910 347**	0.027	0.027	48	32
40	32	10	**733 910 346**	0.032	0.032	48	30
* 50	32	10	**733 910 353**	0.042	0.042	54	36
50	40	10	**733 910 352**	0.049	0.049	54	34
* 63	20	10	**733 910 362**	0.057	0.057	64	50
* 63	25	10	**733 910 361**	0.060	0.060	64	48
* 63	32	10	**733 910 360**	0.064	0.064	64	46
* 63	40	10	**733 910 359**	0.070	0.070	64	44
63	50	10	**733 910 358**	0.086	0.086	64	41
75	63	10	**733 910 364**	0.103	0.103	62	35
* 90	63	10	**733 910 371**	0.180	0.180	88	62
90	75	10	**733 910 370**	0.144	0.144	70	39
110	90	10	**733 910 376**	0.254	0.254	81	45

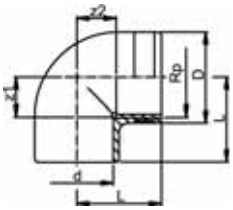
33 96 01 End Caps, PE80

d [mm]	PN	Code	kg	kg/m	D [mm]	L [mm]
20	10	**733 960 106**	0.010	0.010	30	27
25	10	**733 960 107**	0.016	0.016	36	30
32	10	**733 960 108**	0.025	0.025	44	34
40	10	**733 960 109**	0.038	0.038	53	38
50	10	**733 960 110**	0.061	0.061	65	44
63	10	**733 960 111**	0.097	0.097	80	51
75	10	**733 960 112**	0.150	0.150	91	66
90	10	**733 960 113**	0.274	0.274	111	77
110	10	**733 960 114**	0.405	0.405	137	93

Adaptor Fittings for Socket Fusion

33 10 02

Elbow 90°, PE80
metric - Rp



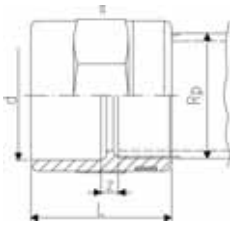
Model:

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

d [mm]	Rp [inch]	PN	Code	kg	kg/m	D [mm]	L [mm]	z1 [mm]	z2 [mm]
20	½	10	**733 100 206**	0.024	0.024	30	28	14	14
25	¾	10	**733 100 207**	0.033	0.033	35	32	16	16
32	1	10	**733 100 208**	0.061	0.061	44	38	20	20
40	1 ¼	10	**733 100 209**	0.094	0.094	54	44	24	24

33 91 02

Adaptor Sockets, PE80
metric - Rp



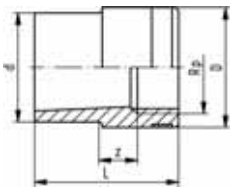
Model:

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

d [mm]	Rp [inch]	PN	Code	kg	kg/m	L [mm]	s [mm]	z [mm]
20	½	10	**733 910 206**	0.020	0.020	35	32	7
25	¾	10	**733 910 207**	0.026	0.026	39	36	7
32	1	10	**733 910 208**	0.042	0.042	45	46	7
40	1 ¼	10	**733 910 209**	0.068	0.068	53	55	7
50	1 ½	10	**733 910 210**	0.098	0.098	54	65	9
63	2	10	**733 910 211**	0.155	0.155	62	80	9

33 91 04

Reducing bush PE80 metric Rp



Model:

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

d [mm]	Rp [inch]	PN	Code	kg	kg/m	L [mm]	z [mm]
20	⅜	10	**733 910 434**	0.012	0.012	33	7
25	½	10	**733 910 437**	0.015	0.015	37	6
32	¾	10	**733 910 441**	0.028	0.028	43	8
40	1	10	**733 910 446**	0.046	0.046	49	9
50	1 ¼	10	**733 910 452**	0.071	0.071	55	10

53 96 04

Hose connector PE100 metric

Model:

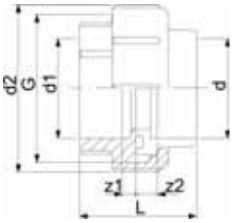
- With socket fusion spigot metric and parallel hose connection

d [mm]	d1 [mm]	PN	Code	kg	kg/m	L [mm]	L1 [mm]	L2 [mm]
20	20	10	**753 960 406**	0.006	0.006	55	27	14
25	25	10	**753 960 407**	0.015	0.015	68	36	16
32	32	10	**753 960 408**	0.024	0.024	77	36	18
40	40	10	**753 960 409**	0.035	0.035	80	42	20
50	50	10	**753 960 410**	0.056	0.056	90	48	23
63	60	10	**753 960 411**	0.093	0.093	100	50	27

Unions for Socket Fusion

33 58 01

Adapter union PE80 - PE80 metric



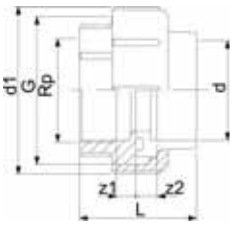
Model:

- Union End: Fusion socket, PE80 metric
- Union Bush: Brass with fusion socket insert, PE80 metric
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

d [mm]	d1 [mm]	PN	Code	kg	kg/m	G [inch]	L [mm]	z1 [mm]	D2 [mm]	d2 [mm]	z2 [mm]
20	20	10	**733 580 106**	0.163	0.163	1 1/4	46	6	46	46	3
25	25	10	**733 580 107**	0.214	0.214	1 1/2	49	6	52	52	3
32	32	10	**733 580 108**	0.294	0.294	2	51	6	64	64	3
40	40	10	**733 580 109**	0.473	0.473	2 1/2	56	8	79	79	3
50	50	10	**733 580 110**	0.491	0.491	2 2/3	61	8	85	85	3
63	63	10	**733 580 111**	0.730	0.730	3 1/2	69	8	104	104	3

33 58 02

Adaptor union PE80 - brass metric Rp



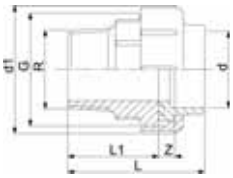
Model:

- Union End: Fusion socket, PE80 metric
- Union bush: nickel-plated, parallel female thread Rp
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

d [mm]	Rp [inch]	PN	Code	kg	kg/m	G [inch]	L [mm]	d1 [mm]	z1 [mm]	z2 [mm]
20	½	10	**733 580 206**	0.209	0.209	1 1/4	46	46	6	10
25	¾	10	**733 580 207**	0.269	0.269	1 1/2	48	52	6	9
32	1	10	**733 580 208**	0.376	0.376	2	51	64	6	8
40	1 ¼	10	**733 580 209**	0.596	0.596	2 1/2	56	79	8	7
50	1 ½	10	**733 580 210**	0.666	0.666	2 3/4	59	85	8	7
63	2	10	**733 580 211**	0.960	0.960	3 1/2	65	104	8	5

33 58 07

Adaptor union PE80 - brass metric R



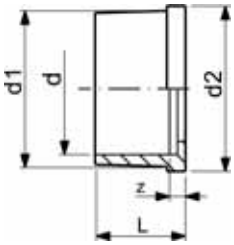
Model:

- Union End: Fusion socket, PE80 metric
- Union bush: nickel-plated, taper male thread R
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

d [mm]	R [inch]	PN	Code	kg	kg/m	d1 [mm]	G [inch]	L [mm]	L1 [mm]	z [mm]
20	½	10	**733 580 706**	0.260	0.260	46	1 1/4	62	40	6
25	¾	10	**733 580 707**	0.324	0.324	52	1 1/2	65	41	6
32	1	10	**733 580 708**	0.470	0.470	64	2	71	45	6
40	1 ¼	10	**733 580 709**	0.754	0.754	79	2 1/2	78	48	8
50	1 ½	10	**733 580 710**	0.781	0.781	85	2 3/4	81	43	8
63	2	10	**733 580 711**	1.166	1.166	104	3 1/2	91	54	8

34 60 01

Union end PE80



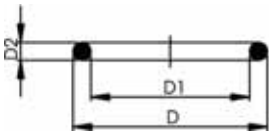
Model:

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

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

EPDM 48 41 00
FPM 49 41 00

O-Ring Gaskets



Model:

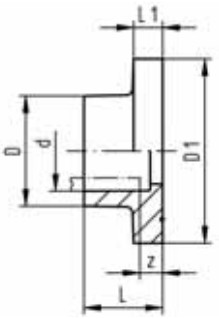
- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C

* for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

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

Flange Adaptors, Flanges and Gaskets for Socket Fusion

53 79 02



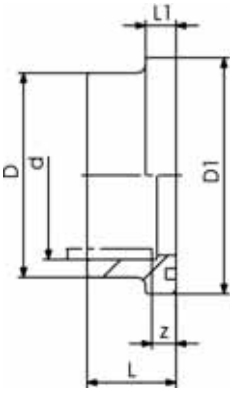
Flange adaptor PE100
Jointing face flat/serrated

Model:

- Counterpart: Flange Adaptor flat/serrated or with O-ring groove
- Connection: according to EN ISO 15494-, DIN 16963-11
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07
- Flanges: PP with steel core, No. 27 70 02, PP-V, No 27 70 04

d [mm]	DN [mm]	PN	Code	kg	kg/m	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
20	15	10	**753 790 206**	0.013	0.013	27	45	19	7	5
25	20	10	**753 790 207**	0.022	0.022	33	58	21	9	5
32	25	10	**753 790 208**	0.035	0.035	41	68	23	10	5
40	32	10	**753 790 209**	0.052	0.052	50	78	25	11	5
50	40	10	**753 790 210**	0.061	0.061	61	88	28	12	5
63	50	10	**753 790 211**	0.095	0.095	76	102	32	14	5
75	65	10	**753 790 212**	0.163	0.163	90	122	36	16	5
90	80	10	**753 790 213**	0.203	0.203	108	138	42	17	7
110	100	10	**753 790 214**	0.293	0.293	131	158	48	18	7

33 81 01



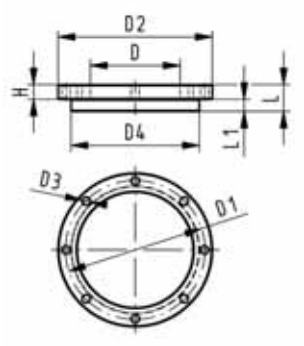
Flange adaptor PE80
Jointing face with o-ring groove

Model:

- Counterpart: Flange adaptor flat/serrated 53 79 02
- Gasket: O-Ring EPDM No. 48 41 00
- Flanges: PP with steel core, No. 27 70 02, PP-V, No 27 70 04

d [mm]	DN [mm]	PN	Code	kg	kg/m	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
20	15	10	**733 810 106**	0.008	0.008	27	34	22	9	8
25	20	10	**733 810 107**	0.012	0.012	33	41	24	10	8
32	25	10	**733 810 108**	0.019	0.019	41	50	26	10	8
40	32	10	**733 810 109**	0.031	0.031	50	61	30	13	10
50	40	10	**733 810 110**	0.044	0.044	61	73	33	13	10
63	50	10	**733 810 111**	0.072	0.072	76	90	37	14	10
75	65	10	**733 810 112**	0.112	0.112	90	106	40	15	10
90	80	10	**733 810 113**	0.185	0.185	108	125	47	16	12
110	100	10	**733 810 114**	0.285	0.285	131	150	55	18	13

53 70 06



Blanking flange set PE
Combined jointing face flat and serrated metric

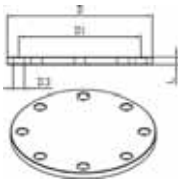
Model:

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

AL: number of holes
L: length of the End Blank

d [mm]	DN [mm]	PN	Code	kg	kg/m
63	50	16	**753 700 611**	0.674	0.674
75	65	16	**753 700 612**	0.910	0.910
90	80	16	**753 700 613**	0.921	0.921
110	100	16	**753 700 614**	1.158	1.158
125	100	16	**753 700 615**	1.678	1.678
140	125	16	**753 700 616**	1.913	1.913
160	150	16	**753 700 617**	2.373	2.373
180	150	16	**753 700 618**	2.430	2.430
200	200	16	**753 700 619**	3.495	3.495
225	200	16	**753 700 620**	3.744	3.744
250	250	16	**753 700 621**	6.051	6.051
280	250	16	**753 700 622**	6.305	6.305
315	300	16	**753 700 623**	8.894	8.894
355	350	16	**753 700 624**	23.198	23.198
400	400	16	**753 700 625**	30.766	30.766
450	500	10	**753 700 626**	44.271	44.271
500	500	10	**753 700 627**	47.165	47.165
560	600	10	**753 700 628**	67.147	67.147
630	600	10	**753 700 629**	68.574	68.574

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	H [mm]	L [mm]	L1 [mm]	AL
63	75	125	165	18	102	24	30	14	4
75	89	145	185	18	122	26	30	16	4
90	105	160	200	18	138	27	30	17	8
110	125	180	220	18	158	28	30	18	8
125	132	180	220	18	158	28	35	25	8
140	155	210	250	18	188	30	40	25	8
160	175	240	285	22	212	32	40	25	8
180	180	240	285	22	212	32	45	30	8
200	232	295	340	22	268	34	50	32	8
225	235	295	340	22	268	34	50	32	8
250	285	350	395	22	320	38	55	35	12
280	291	350	395	22	320	38	60	35	12
315	335	400	445	22	370	42	65	35	12
355	373	460	515	22	430	40	70	40	16
400	427	515	574	26	482	40	75	46	16
450	510	620	684	26	585	49	80	60	20
500	530	620	684	26	585	49	90	60	20
560	615	725	796	30	685	58	100	60	20
630	642	725	796	30	685	68	110	60	20

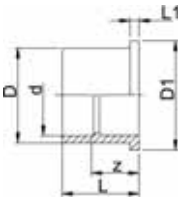


Blanking Flanges PE100

Model:

- made out of sheet material
- **Bolt circle PN 10**

d [mm]	DN [mm]	PN	Code	L [mm]	D [mm]	D1 [mm]	D3 [mm]	AL
63	50	2,5	**700 647 886**	15	165	125	18	4
75	65	2,5	**700 647 887**	15	185	145	18	4
90	80	2,5	**700 647 888**	15	200	160	18	8
110	100	2,5	**700 647 889**	15	220	180	18	8
125	100	2,5	**700 647 890**	15	220	180	18	8
140	125	2,5	**700 647 891**	15	250	210	18	8
160	150	2,5	**700 647 892**	20	285	240	22	8
180	150	2,5	**700 647 893**	25	285	240	22	8
200	200	2,5	**700 647 894**	25	340	295	22	8
225	200	2,5	**700 647 895**	30	340	295	22	8
250	250	2,5	**700 647 896**	30	395	350	22	12
280	250	2,5	**700 647 897**	30	395	350	22	12
315	300	2,5	**700 647 898**	40	445	400	22	12
355	350	2,5	**700 647 899**	40	515	460	22	16
400	400	2,5	**700 647 900**	45	574	515	26	16
450	500	2,5	**700 647 901**	55	670	620	26	20
500	500	2,5	**700 647 902**	60	670	620	26	20
560	600	2,5	**700 647 903**	65	780	725	30	20
630	600	2,5	**700 647 904**	75	780	725	30	20



Outlet flange adaptor PE80
Jointing face flat

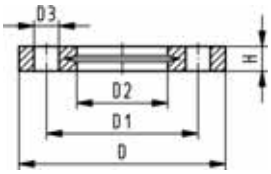
Model:

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

d [mm]	DN [mm]	PN	Code	kg	kg/m	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
40	32	6	**733 800 009**	0.065	0.065	50	78	55	11	35
50	40	6	**733 800 010**	0.088	0.088	61	88	61	12	38
63	50	6	**733 800 011**	0.136	0.136	76	102	69	14	41
75	65	6	**733 800 012**	0.223	0.223	90	122	79	16	49
90	80	6	**733 800 013**	0.357	0.357	107	138	100	17	65
110	100	6	**733 800 014**	0.482	0.482	130	158	105	18	62

27 70 04
27 70 05

Backing Flanges, PP-V
For socket systems metric



Model:

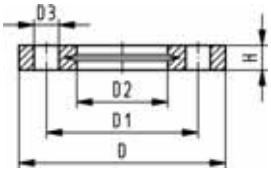
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN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

* Combined version, metric-ANSI
AL: number of holes
[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)

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

27 70 14
27 70 15

Backing Flanges, PP-V
For socket systems Inch ANSI



Model:

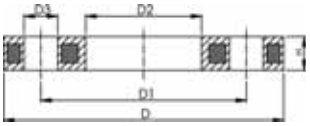
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- 727701414, 727700417, 727700419: only for use with original metric flange adaptors

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes
* Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	kg	kg/m
[1] ½	15	20	16	**727 701 406**	0.091	0.091
[1] ¾	20	25	16	**727 701 407**	0.120	0.120
[1] 1	25	32	16	**727 701 408**	0.147	0.147
[1] 1 ¼	32	40	16	**727 701 409**	0.246	0.246
[1] 1 ½	40	50	16	**727 701 410**	0.299	0.299
[1] 2	50	63	16	**727 701 411**	0.361	0.361
[1] 2 ½	65	75	16	**727 701 412**	0.492	0.492
3	80	90	16	**727 701 413**	0.605	0.605
4	100	110	16	**727 701 414**	0.704	0.704

Inch	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1] ½	95	60.0	28	16	16	4	M12
[1] ¾	105	70.0	34	16	17	4	M12
[1] 1	115	79.0	42	16	18	4	M12
[1] 1 ¼	140	89.0	51	16	20	4	M16
[1] 1 ½	150	98.0	62	16	22	4	M16
[1] 2	165	121.0	78	19	24	4	M16
[1] 2 ½	185	140.0	92	19	26	4	M16
3	200	152.0	110	19	27	4	M16
4	229	190.0	133	19	28	8	M16

27 70 02



Backing flange PP-Steel
For socket systems metric

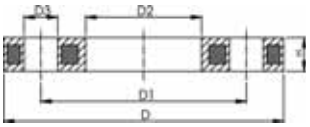
Model:

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

[1] Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100
[2] Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250
AL: number of holes

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

27 70 12



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

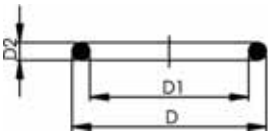
Model:

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

AL: number of holes

d [inch]	DN [mm]	d [mm]	PN	Code	kg	kg/m	D1 [mm]	D2 [mm]	D3 [mm]	D [mm]	H [mm]	AL	SC
½	15	20	16	**727 701 206**	0.213	0.213	60	28	16	95	12	4	M12
¾	20	25	16	**727 701 207**	0.260	0.260	70	34	16	105	12	4	M12
1	25	32	16	**727 701 208**	0.416	0.416	79	42	16	115	16	4	M12
1 ¼	32	40	16	**727 701 209**	0.730	0.730	89	51	16	140	16	4	M16
1 ½	40	50	16	**727 701 210**	0.809	0.809	98	62	16	150	18	4	M16
2	50	63	16	**727 701 211**	0.866	0.866	121	78	19	165	18	4	M16
2 ½	65	75	16	**727 701 212**	1.117	1.117	140	92	19	185	18	4	M16
3	80	90	16	**727 701 213**	1.492	1.492	152	110	19	200	20	4	M16
4	100	110	16	**727 701 214**	1.695	1.695	190	133	19	229	20	8	M16

EPDM 48 41 01
FPM 49 41 01



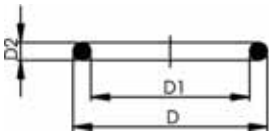
O-Ring Gaskets

Model:

- For Flange Adaptors
- Hardness approx. 65° Shore

d [mm]	DN [mm]	EPDM Code	FPM Code	kg	kg/m	D [mm]	D1 [mm]	D2 [mm]
20	15	**748 410 001**	**749 410 001**	0.002	0.002	31	23	3.53
25	20	**748 410 007**	**749 410 007**	0.002	0.002	35	28	3.53
32	25	**748 410 002**	**749 410 002**	0.003	0.003	43	36	3.53
40	32	**748 410 003**	**749 410 003**	0.001	0.001	55	44	5.34
50	40	**748 410 012**	**749 410 012**	0.008	0.008	64	53	5.34
63	50	**748 410 013**	**749 410 013**	0.011	0.011	80	69	5.34

table continued next page

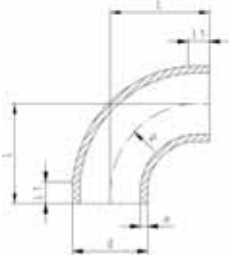


d [mm]	DN [mm]	EPDM Code	FPM Code	kg	kg/m	D [mm]	D1 [mm]	D2 [mm]	
75	65	**748 410 014**	**749 410 014**	0.012	0.012	93	82	5.34	
90	80	**748 410 015**	**749 410 015**	0.015	0.015	112	101	5.34	
110	100	**748 410 016**	**749 410 016**	0.031	0.031	134	120	6.99	

Fittings for Butt Fusion

53 01 87

Bend 90° PE100 SDR11

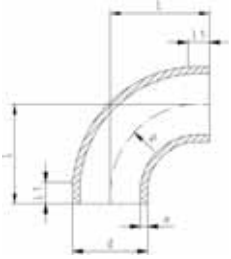


Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	R [mm]	e [mm]	PF	
20	IR	**753 018 706**	0.007	38	23	15	1.9	2 68 240 006	
25	IR	**753 018 707**	0.013	42	23	19	2.3	2 68 240 006	
32	IR	**753 018 708**	0.025	46	22	24	2.9	2 68 240 006	
40	IR	**753 018 709**	0.041	51	21	30	3.7	2 68 240 006	
50	IR	**753 018 710**	0.065	58	21	37	4.6	2 68 240 006	
63	IR	**753 018 711**	0.124	66	21	45	5.8	2 68 240 006	
75	IR	**753 018 712**	0.246	100	20	90	6.8	2 68 240 006	
90	IR	**753 018 713**	0.355	100	20	90	8.2	2 68 240 006	
110	IR	**753 018 714**	0.757	141	25	130	10.0	2 68 240 006	
125	IR	**753 018 690**	1.014	140	15	125	11.4	2 68 240 002	
140	IR	**753 018 691**	1.383	155	15	140	12.7	2 68 240 002	
160	IR	**753 018 692**	1.991	175	15	160	14.6	2 68 240 002	
180	IR	**753 018 693**	2.876	195	15	180	16.4	2 68 240 002	
200	IR	**753 018 694**	3.882	215	15	200	18.2	2 68 240 002	
225	IR	**753 018 695**	5.587	245	20	225	20.5	2 68 240 002	
250	--	**753 018 621**	6.713	256	48	232	22.7	2 68 240 002	
280	--	**753 018 622**	9.885	286	48	262	25.4	2 68 240 002	
315	--	**753 018 623**	14.158	321	48	297	28.6	2 68 240 002	
355	--	**753 021 024**	17.200	380	38	355	32.3	2 68 240 040	
400	--	**753 021 025**	31.100	434	41	400	36.3	2 68 240 040	
450	--	**753 021 026**	38.300	445	49	450	40.9	2 68 240 040	
500	--	**753 021 027**	47.300	450	49	500	45.5	2 68 240 040	

Bend 90° PE100 SDR17/17.6



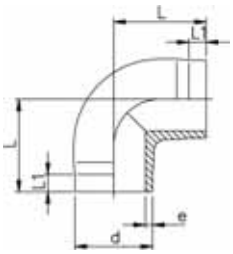
Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	R [mm]	e [mm]	PF	
50	IR	**753 018 635**	0.052	58	21	37	2.9	2 68 240 026	
63	IR	**753 018 636**	0.087	66	21	45	3.6	2 68 240 026	
75	IR	**753 018 737**	0.176	100	20	90	4.3	2 68 240 026	
90	IR	**753 018 738**	0.245	100	20	90	5.1	2 68 240 026	
110	IR	**753 018 739**	0.513	141	20	130	6.3	2 68 240 026	
125	IR	**753 018 590**	0.692	140	15	125	7.1	2 68 240 022	
140	IR	**753 018 591**	0.904	155	15	140	8.0	2 68 240 022	
160	IR	**753 018 592**	1.350	175	15	160	9.1	2 68 240 022	
180	IR	**753 018 593**	1.935	195	15	180	10.2	2 68 240 022	
200	IR	**753 018 594**	2.578	215	15	200	11.4	2 68 240 022	
225	IR	**753 018 595**	3.542	245	15	225	12.8	2 68 240 022	
250	--	**753 018 521**	4.645	256	48	232	14.2	2 68 240 002	
280	--	**753 018 522**	7.020	286	48	262	15.9	2 68 240 002	
315	--	**753 018 523**	10.099	321	48	297	17.9	2 68 240 002	
355	--	**753 020 824**	11.300	340	38	355	21.1	2 68 240 040	
400	--	**753 020 825**	15.700	345	41	400	23.7	2 68 240 040	
450	--	**753 020 826**	25.868	449	49	450	25.8	2 68 240 040	
500	--	**753 020 827**	35.000	449	49	500	32.0	2 68 240 040	

53 10 86

Elbow 90° PE100 SDR11



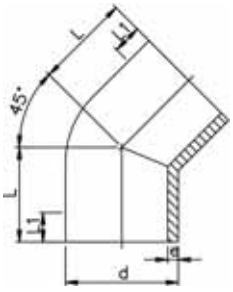
Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
20	IR	**753 108 606**	0.009	38	25	1,9
25	IR	**753 108 607**	0.013	42	26	2,3
32	IR	**753 108 608**	0.026	46	27	2,9
40	IR	**753 108 609**	0.047	51	22	3,7
50	IR	**753 108 610**	0.086	58	23	4,6
63	IR	**753 108 611**	0.150	66	21	5,8

53 15 86

Elbow 45° PE100 SDR11



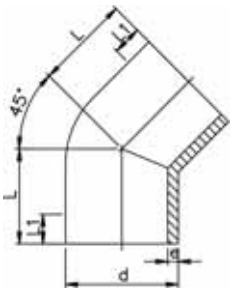
Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]	PF
20	IR	**753 158 606**	0.007	32	24	1,9	2 68 240 008
25	IR	**753 158 607**	0.013	34	25	2,3	2 68 240 008
32	IR	**753 158 608**	0.019	36	25	2,9	2 68 240 008
40	IR	**753 158 609**	0.036	39	25	3,7	2 68 240 008
50	IR	**753 158 610**	0.059	42	26	4,6	2 68 240 008
63	IR	**753 158 611**	0.103	47	29	5,8	2 68 240 008
75	IR	**753 158 612**	0.146	49	29	6,8	2 68 240 008
90	IR	**753 158 613**	0.241	57	34	8,2	2 68 240 008
110	IR	**753 158 614**	0.442	70	43	10,0	2 68 240 008
125	IR	**753 158 615**	0.638	79	48	11,4	2 68 240 003
140	IR	**753 158 616**	0.902	88	55	12,7	2 68 240 003
160	IR	**753 158 617**	1.340	100	60	14,6	2 68 240 003
200	IR	**753 158 619**	2.612	124	75	18,2	2 68 240 003
225	IR	**753 158 620**	3.638	140	85	20,5	2 68 240 003

53 15 85

Elbow 45° PE100 SDR17.6



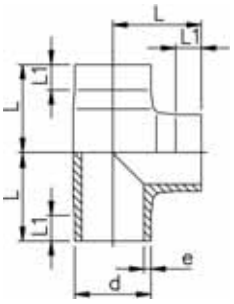
Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]	PF
50	IR	**753 158 535**	0.045	42	26	2,9	2 68 240 008
63	IR	**753 158 536**	0.091	47	29	3,6	2 68 240 008
75	IR	**753 158 412**	0.125	49	29	4,7	2 68 240 008
90	IR	**753 158 413**	0.198	57	34	5,6	2 68 240 028
110	IR	**753 158 414**	0.375	70	43	6,9	2 68 240 028
125	IR	**753 158 540**	0.542	79	48	7,1	2 68 240 028
140	IR	**753 158 541**	0.784	88	55	8,0	2 68 240 023
160	IR	**753 158 542**	1.190	100	60	9,1	2 68 240 023
200	IR	**753 158 544**	2.331	124	75	11,4	2 68 240 023
225	IR	**753 158 545**	3.282	140	85	12,8	2 68 240 023

53 20 86

Tee 90° equal PE100 SDR11



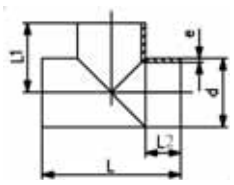
Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
20	IR	**753 208 606**	0.013	38	24	1,9
25	IR	**753 208 607**	0.021	42	26	2,3
32	IR	**753 208 608**	0.042	46	26	2,9
40	IR	**753 208 609**	0.065	51	22	3,7
50	IR	**753 208 610**	0.111	58	22	4,6
63	IR	**753 208 611**	0.202	66	21	5,8
75	IR	**753 208 612**	0.312	75	20	6,8
90	IR	**753 208 613**	0.553	90	20	8,2
110	IR	**753 208 614**	1.002	110	20	10,0
125	IR	**753 208 615**	1.509	125	25	11,4
140	IR	**753 208 616**	2.105	140	28	12,7
160	IR	**753 208 617**	3.085	160	28	14,6
180	IR	**753 208 668**	5.062	190	70	16,4
200	IR	**753 208 619**	5.982	200	35	18,2
225	IR	**753 208 620**	8.090	220	35	20,5
250	--	**753 208 671**	13.326	272	90	22,7
280	--	**753 208 672**	20.458	313	108	25,4
315	--	**753 208 673**	27.400	348	114	28,6
355	--	**753 221 024**	30.500	352	97	32,3
400	--	**753 221 025**	39.000	337	100	36,4
450	--	**753 221 026**	45.000	450	130	40,9
500	--	**753 221 027**	75.500	450	130	45,5

53 20 86

Tee 90° equal PE100 SDR11



Model:

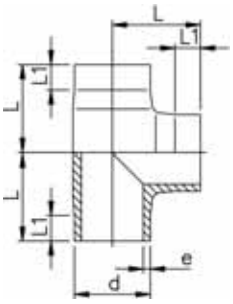
- Conventional butt-welding according to DVS 2207 part 1
- Machined
- 10 bar Gas / 16 bar Water

* on request

d [mm]	Code	kg	L [mm]	L1 [mm]	z [mm]	e [mm]
560	**753 211 028**		780	500	80	50.8
630	**753 211 029**		850	540	80	57.2
710	**753 211 030**	177.442	950	650	75	64.5
* 800	**753 211 031**	233.384	1013	700	75	72.6

53 20 85

Tee 90° equal PE100 SDR17/17.6



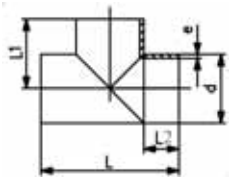
Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]	PF
50	IR	**753 208 535**	0.080	59	26	2,9	2 68 240 021
63	IR	**753 208 536**	0.187	71	25	3,6	2 68 240 021
75	IR	**753 208 412**	0.232	74	20	4,8	2 68 240 021
90	IR	**753 208 413**	0.408	90	20	5,6	2 68 240 021
110	IR	**753 208 414**	0.724	110	20	6,9	2 68 240 021
125	IR	**753 208 540**	1.175	124	27	7,1	2 68 240 029
140	IR	**753 208 541**	1.623	141	33	8,0	2 68 240 029
160	IR	**753 208 542**	2.431	160	40	9,1	2 68 240 029
180	IR	**753 208 543**	3.756	190	70	10.2	2 68 240 029
200	IR	**753 208 544**	5.243	210	70	11,4	2 68 240 029
225	IR	**753 208 545**	1.872	238	80	12,8	2 68 240 029
250	--	**753 208 546**	9.964	272	90	14,2	2 68 240 029
280	--	**753 208 547**	14.265	313	108	15,9	2 68 240 029
315	--	**753 208 548**	22.284	348	114	17,9	2 68 240 029
355	--	**753 220 824**	22.593	330	95	21,1	2 68 240 040
400	--	**753 220 825**	30.500	345	104	23,7	2 68 240 040
450	--	**753 220 826**	38.000	450	130	26,7	2 68 240 040
500	--	**753 220 827**	52.600	445	130	29,7	2 68 240 040

53 20 85

Tee 90° equal PE100 SDR17/17.6

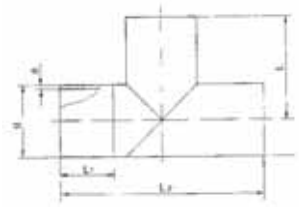


Model:

- Conventional butt-welding according to DVS 2207 part 1
- Machined
- 5 bar Gas / 10 bar Water

* on request

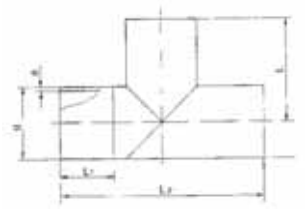
d [mm]	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]
560	**753 220 831**	153.300	780	500	80	33.2
630	**753 208 832**	205.500	850	540	80	37.4
710	**753 220 833**	121.141	950	650	75	42.1
* 800	**753 220 834**	158.977	1013	700	75	47.4



Tee 90° equal PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reducing factor = 0,6

d [mm]	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 056**	2.230	205	150	410	10,0
125	**700 649 057**	2.400	215	150	430	11,4
140	**700 649 058**	3.100	220	150	440	12,8
160	**700 649 059**	4.150	230	150	460	14,6
180	**700 649 060**	5.320	240	150	480	16,4
200	**700 649 061**	6.810	250	150	500	18,2
225	**700 649 062**	8.960	265	150	530	20,5
250	**700 649 063**	16.200	375	250	750	22,8
280	**700 649 064**	20.950	390	250	780	25,5
315	**700 649 065**	31.540	460	300	920	28,7
355	**700 649 066**	41.250	480	300	960	32,3
400	**700 649 067**	5.380	500	1000	1000	36,4
450	**700 649 068**	70.400	525	1050	1050	41,0
500	**700 649 069**	98.380	600	1200	1200	45,5
560	**700 649 070**	131.830	630	1260	1260	51,0
630	**700 649 071**	172.600	665	1330	1330	57,3



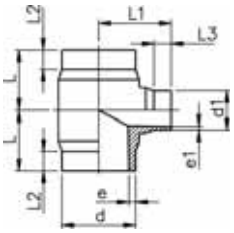
Tee 90° equal PE100 S8/SDR17.6

- For IR, butt- and electro fusion
- Reducing factor = 0,6

d [mm]	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 072**	9.782	205	150	410	6,3
125	**700 649 073**	13.430	215	150	430	7,1
140	**700 649 074**	18.342	220	150	440	8,0
160	**700 649 075**	20.062	230	150	460	9,1
180	**700 649 076**	26.736	240	150	480	10,2
200	**700 649 077**	36.063	250	150	500	11,4
225	**700 649 078**	1.162	265	150	530	12,8
250	**700 649 079**	1.584	375	250	750	14,2
280	**700 649 080**	2.046	390	250	780	15,9
315	**700 649 081**	2.739	460	300	920	17,9
355	**700 649 082**	29.960	480	300	960	20,1
400	**700 649 083**	4.495	500	300	1000	22,7
450	**700 649 084**	55.340	525	300	1050	25,5
500	**700 649 085**	10.692	600	350	1200	28,3
560	**700 649 086**	13.827	630	350	1260	31,7
630	**700 649 087**	20.816	665	350	1330	35,7

53 20 83

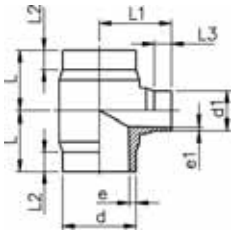
Tee 90° reduced PE100 SDR11



Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100

d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]	PF
63	32	IR	**753 208 351**	0.161	65	70	25	25	5,8	2,9	2 68 240 017
63	50	IR	**753 208 352**	0.180	65	70	25	25	5,8	4,6	2 68 240 017
75	32	IR	**753 208 353**	0.255	70	75	25	25	6,8	2,9	2 68 240 017
75	50	IR	**753 208 354**	0.265	70	75	25	25	6,8	4,6	2 68 240 017
75	63	IR	**753 208 355**	0.278	70	75	25	25	6,8	5,8	2 68 240 017
90	50	IR	**753 208 357**	0.435	80	85	25	25	8,2	4,6	2 68 240 017
90	63	IR	**753 208 358**	0.448	80	85	25	25	8,2	5,8	2 68 240 017
90	75	IR	**753 208 359**	0.462	80	85	25	25	8,2	6,8	2 68 240 017
110	32	IR	**753 208 360**	0.685	90	95	30	25	10,0	2,9	2 68 240 017
110	50	IR	**753 208 361**	0.694	90	95	30	25	10,0	4,6	2 68 240 017
110	63	IR	**753 208 362**	0.709	90	95	30	25	10,0	5,8	2 68 240 017
110	75	IR	**753 208 363**	0.717	90	95	30	25	10,0	6,8	2 68 240 017
110	90	IR	**753 208 364**	0.734	90	95	30	25	10,0	8,2	2 68 240 017
160	63	IR	**753 208 371**	2.269	142	135	50	30	14,6	5,8	2 68 240 017
160	75	IR	**753 208 372**	2.255	142	135	50	30	14,6	6,8	2 68 240 017
160	90	IR	**753 208 373**	2.317	142	135	50	30	14,6	8,2	2 68 240 017
160	110	IR	**753 208 374**	2.353	142	135	50	30	14,6	10,0	2 68 240 017
225	90	IR	**753 208 388**	4.759	155	165	40	30	20,5	8,2	2 68 240 017
225	110	IR	**753 208 389**	4.796	155	165	40	30	20,5	10,0	2 68 240 017
225	160	IR	**753 208 391**	4.854	155	165	40	30	20,5	14,6	2 68 240 017
3 250	110	--	**753 221 031**	8.199	228	197	140	37	22,7	10,0	2 68 240 040
3 250	160	--	**753 221 032**	8.564	229	219	117	60	22,7	14,6	2 68 240 040



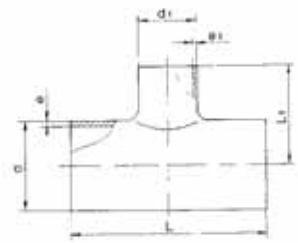
Tee 90° reduced PE100 SDR17.6

Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- 5 bar Gas / 10 bar Water

* Branch SDR11

d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]	e1 [mm]
* 63	32	IR	**753 208 301**	0.163	65	70	25	25	3,6	2,9
63	50	IR	**753 208 302**	0.171	65	70	25	25	3,6	2,9
* 75	32	IR	**753 208 303**	0.231	70	75	25	25	4,3	2,9
75	50	IR	**753 208 304**	0.250	70	75	25	25	4,3	2,9
75	63	IR	**753 208 305**	0.263	70	75	25	25	4,3	3,6
90	50	IR	**753 208 307**	0.411	80	85	25	25	5,1	2,9
90	63	IR	**753 208 308**	0.329	80	85	25	25	5,1	3,6
90	75	IR	**753 208 309**	0.339	80	85	25	25	5,1	4,3
* 110	32	IR	**753 208 310**	0.643	90	95	30	25	6,3	2,9
110	50	IR	**753 208 311**	0.655	90	95	30	25	6,3	2,9
110	63	IR	**753 208 312**	0.516	90	95	30	25	6,3	3,6
110	75	IR	**753 208 313**	0.521	90	95	30	25	6,3	4,3
110	90	IR	**753 208 314**	0.529	90	95	30	25	6,3	5,1
160	63	IR	**753 208 321**	2.103	142	135	50	30	9,1	3,6
160	75	IR	**753 208 322**	2.142	142	135	50	30	9,1	4,3
160	90	IR	**753 208 323**	1.668	142	135	50	30	9,1	5,1
160	110	IR	**753 208 324**	1.687	142	135	50	30	9,1	6,3
225	90	IR	**753 208 338**	3.439	155	165	40	30	12,8	5,1
225	110	IR	**753 208 339**	3.448	155	165	40	30	12,8	6,3
225	160	IR	**753 208 341**	3.471	155	165	40	30	12,8	9,1



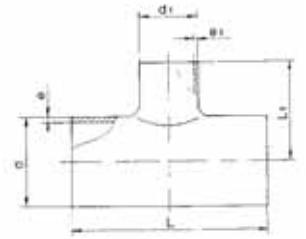
Tee 90° reduced PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reducing factor = 0,6

d [mm]	d1 [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	e1 [mm]
225	63	**700 649 155**	35.500	363	238	20,5	5,8
225	75	**700 649 156**	35.855	375	238	20,5	6,9
225	90	**700 649 157**	36.214	390	238	20,5	8,2
225	110	**700 649 158**	36.576	410	238	20,5	10,0
225	125	**700 649 159**	36.941	425	238	20,5	11,4
225	140	**700 649 160**	37.311	440	238	20,5	12,8
225	160	**700 649 161**	37.684	460	238	20,5	14,6
250	75	**700 649 162**	38.061	475	250	22,8	6,9
250	90	**700 649 163**	38.441	490	250	22,8	8,2
250	110	**700 649 164**	38.826	510	250	22,8	10,0
250	125	**700 649 165**	39.214	525	250	22,8	11,4
250	140	**700 649 166**	39.606	540	1000	22,8	12,8
250	160	**700 649 167**	40.002	560	1050	22,8	14,6
250	180	**700 649 168**	40.402	580	275	22,8	16,4
280	75	**700 649 169**	40.806	475	265	25,5	6,9
280	90	**700 649 170**	6.650	490	265	25,5	8,2
280	110	**700 649 171**	41.627	510	265	25,5	10,0
280	125	**700 649 172**	42.043	525	265	25,5	11,4
280	140	**700 649 173**	42.463	540	265	25,5	12,8
280	160	**700 649 174**	42.888	560	265	25,5	14,6
280	180	**700 649 175**	43.317	580	290	25,5	16,4
280	200	**700 649 176**	43.750	600	290	25,5	18,2
315	90	**700 649 177**	44.187	490	283	28,7	8,2
315	110	**700 649 178**	44.629	510	283	28,7	10,0
315	125	**700 649 179**	45.076	525	283	28,7	11,4
315	140	**700 649 180**	45.526	540	283	28,7	12,8
315	160	**700 649 181**	7.580	560	283	28,7	14,6
315	180	**700 649 182**	46.441	580	308	28,7	16,4
315	200	**700 649 183**	46.906	600	308	28,7	18,2
315	225	**700 649 184**	9.310	625	308	28,7	20,5
355	110	**700 649 185**	47.849	510	303	32,3	10,0

table continued next page

d [mm]	d1 [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	e1 [mm]
355	125	**700 649 186**	48.327	525	303	32,3	11,4
355	140	**700 649 187**	48.810	540	303	32,3	12,8
355	160	**700 649 188**	49.298	560	303	32,3	14,6
355	180	**700 649 189**	49.791	580	328	32,3	16,4
355	200	**700 649 190**	50.289	600	328	32,3	18,2
355	225	**700 649 191**	50.792	625	328	32,3	20,5
355	250	**700 649 192**	51.300	650	378	32,3	22,8
400	110	**700 649 193**	51.813	510	325	36,4	10,0
400	125	**700 649 194**	52.331	525	325	36,4	11,4
400	140	**700 649 195**	52.855	540	325	36,4	12,8
400	160	**700 649 196**	53.383	560	325	36,4	14,6
400	180	**700 649 197**	53.917	580	350	36,4	16,4
400	200	**700 649 198**	54.456	600	350	36,4	18,2
400	225	**700 649 199**	55.001	625	350	36,4	20,5
400	250	**700 649 200**	55.551	650	400	36,4	22,8
400	280	**700 649 201**	56.106	680	400	36,4	25,5
450	110	**700 649 202**	56.667	510	350	41,0	10,0
450	125	**700 649 203**	57.234	525	350	41,0	11,4
450	140	**700 649 204**	57.806	540	350	41,0	12,8
450	160	**700 649 205**	58.384	560	350	41,0	14,6
450	180	**700 649 206**	58.968	580	375	41,0	16,4
450	200	**700 649 207**	59.558	600	375	41,0	18,2
450	225	**700 649 208**	60.154	625	375	41,0	20,5
450	250	**700 649 209**	60.755	650	425	41,0	22,8
450	280	**700 649 210**	61.363	680	425	41,0	25,5
450	315	**700 649 211**	61.976	715	425	41,0	28,7
500	110	**700 649 212**	62.596	510	375	45,5	10,0
500	125	**700 649 213**	63.222	525	375	45,5	11,4
500	140	**700 649 214**	63.854	540	375	45,5	12,8
500	160	**700 649 215**	64.493	560	375	45,5	14,6
500	180	**700 649 216**	65.138	580	400	45,5	16,4
500	200	**700 649 217**	65.789	600	400	45,5	18,2
500	225	**700 649 218**	66.447	625	400	45,5	20,5
500	250	**700 649 219**	67.111	650	450	45,5	22,8
500	280	**700 649 220**	67.783	680	450	45,5	25,5
500	315	**700 649 221**	68.460	715	450	45,5	28,7



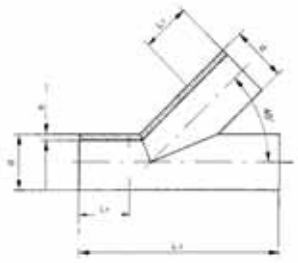
Tee 90° reduced PE100 S8/SDR17.6

- For IR, butt- and electro fusion
- Reducing factor = 0,6

d [mm]	d1 [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	e1 [mm]
225	63	**700 649 088**	35.500	363	238	12,8	3,6
225	75	**700 649 089**	3.280	375	238	12,8	4,3
225	90	**700 649 090**	36.214	390	238	12,8	5,1
225	110	**700 649 091**	36.576	410	238	12,8	6,3
225	125	**700 649 092**	36.941	425	238	12,8	7,1
225	140	**700 649 093**	4.320	440	238	12,8	8,0
225	160	**700 649 094**	4.410	460	238	12,8	9,1
250	75	**700 649 095**	38.061	475	250	14,2	4,3
250	90	**700 649 096**	38.441	490	250	14,2	5,1
250	110	**700 649 097**	38.826	510	250	14,2	6,3
250	125	**700 649 098**	39.214	525	250	14,2	7,1
250	140	**700 649 099**	39.606	540	250	14,2	8,0
250	160	**700 649 100**	40.002	560	250	14,2	9,1
250	180	**700 649 101**	7.490	580	275	14,2	10,2
280	75	**700 649 102**	6.650	475	265	15,9	4,3
280	90	**700 649 103**	41.214	490	265	15,9	5,1
280	110	**700 649 104**	7.400	510	265	15,9	6,3
280	125	**700 649 105**	42.043	525	265	15,9	7,1
280	140	**700 649 106**	7.320	540	265	15,9	8,0
280	160	**700 649 107**	7.580	560	265	15,9	9,1
280	180	**700 649 108**	43.317	580	290	15,9	10,2
280	200	**700 649 109**	43.750	600	290	15,9	11,4
315	90	**700 649 110**	44.187	490	283	17,9	5,1

table continued next page

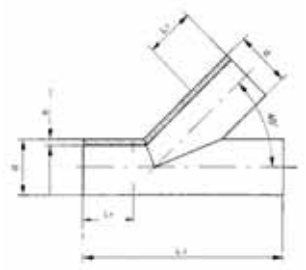
d [mm]	d1 [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]	e1 [mm]
315	110	**700 649 111**	44.629	510	283	17,9	6,3
315	125	**700 649 112**	45.076	525	283	17,9	7,1
315	140	**700 649 113**	10.140	540	283	17,9	8,0
315	160	**700 649 114**	10.280	560	283	17,9	9,1
315	180	**700 649 115**	46.441	580	308	17,9	10,2
315	200	**700 649 116**	46.906	600	308	17,9	11,4
315	225	**700 649 117**	11.830	625	308	17,9	12,8
355	110	**700 649 118**	11.130	510	303	20,1	6,3
355	125	**700 649 119**	11.340	525	303	20,1	7,1
355	140	**700 649 120**	48.810	540	303	20,1	8,0
355	160	**700 649 121**	12.200	560	303	20,1	9,1
355	180	**700 649 122**	49.791	580	328	20,1	10,2
355	200	**700 649 123**	50.289	600	328	20,1	11,4
355	225	**700 649 124**	14.550	625	328	20,1	12,8
355	250	**700 649 125**	17.120	650	378	20,1	14,2
400	110	**700 649 126**	51.813	510	325	22,7	6,3
400	125	**700 649 127**	52.331	525	325	22,7	7,1
400	140	**700 649 128**	52.855	540	325	22,7	8,0
400	160	**700 649 129**	15.450	560	325	22,7	9,1
400	180	**700 649 130**	15.630	580	350	22,7	10,2
400	200	**700 649 131**	54.456	600	350	22,7	11,4
400	225	**700 649 132**	17.620	625	350	22,7	12,8
400	250	**700 649 133**	18.970	650	400	22,7	14,2
400	280	**700 649 134**	19.510	680	400	22,7	15,9
450	110	**700 649 135**	56.667	510	350	25,5	6,3
450	125	**700 649 136**	57.234	525	350	25,5	7,1
450	140	**700 649 137**	57.806	540	350	25,5	8,0
450	160	**700 649 138**	58.384	560	350	25,5	9,1
450	180	**700 649 139**	58.968	580	375	25,5	10,2
450	200	**700 649 140**	59.558	600	375	25,5	11,4
450	225	**700 649 141**	60.154	625	375	25,5	12,8
450	250	**700 649 142**	60.755	650	425	25,5	14,2
450	280	**700 649 143**	61.363	680	425	25,5	15,9
450	315	**700 649 144**	26.780	715	425	25,5	17,9
500	110	**700 649 145**	62.596	510	375	28,3	6,3
500	125	**700 649 146**	63.222	525	375	28,3	7,1
500	140	**700 649 147**	63.854	540	375	28,3	8,0
500	160	**700 649 148**	64.493	560	375	28,3	9,1
500	180	**700 649 149**	65.138	580	400	28,3	10,2
500	200	**700 649 150**	65.789	600	400	28,3	11,4
500	225	**700 649 151**	66.447	625	400	28,3	12,8
500	250	**700 649 152**	67.111	650	450	28,3	14,2
500	280	**700 649 153**	67.783	680	450	28,3	15,9
500	315	**700 649 154**	68.460	715	450	28,3	17,9



Branch 45° PE100 S5/SDR11

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

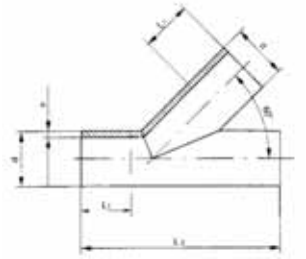
d [mm]	Code	kg	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 299**	3.190	150	520	10,0
125	**700 649 300**	4.120	150	520	11,4
140	**700 649 301**	5.130	150	570	12,8
160	**700 649 302**	6.730	150	640	14,6
180	**700 649 303**	8.500	150	700	16,4
200	**700 649 304**	12.600	150	800	18,2
225	**700 649 305**	15.960	150	800	20,5
250	**700 649 306**	16.200	250	1000	22,8
280	**700 649 307**	20.950	250	1000	25,5
315	**700 649 308**	31.540	300	1300	28,7
355	**700 649 309**	41.250	300	1500	32,3
400	**700 649 310**	53.800	300	1500	36,4
450	**700 649 311**	70.400	300	1500	41,0



Branch 45° PE100 S8/SDR17.6

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

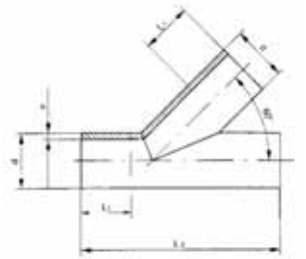
d [mm]	Code	kg	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 286**	2.210	150	520	6,3
125	**700 649 287**	2.960	150	520	7,1
140	**700 649 288**	0.561	150	570	8,0
160	**700 649 289**	4.830	150	640	9,1
180	**700 649 290**	0.898	150	700	10,2
200	**700 649 291**	1.155	150	800	11,4
225	**700 649 292**	10.350	150	800	12,8
250	**700 649 293**	15.110	250	1000	14,2
280	**700 649 294**	3.115	250	1000	15,9
315	**700 649 295**	33.800	300	1300	17,9
355	**700 649 296**	4.851	300	1500	20,1
400	**700 649 297**	54.200	300	1500	22,7
450	**700 649 298**	46.464	300	1500	25,5



Branch 60° PE100 S5/SDR11

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

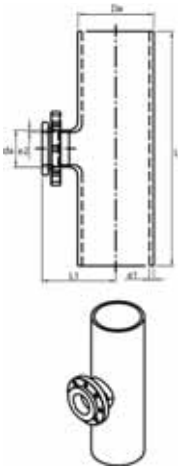
d [mm]	Code	kg	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 325**	3.190	150	520	10,0
125	**700 649 326**	4.120	150	520	11,4
140	**700 649 327**	4.130	150	570	12,8
160	**700 649 328**	6.730	150	640	14,6
180	**700 649 329**	5.320	150	700	16,4
200	**700 649 330**	12.600	150	800	18,2
225	**700 649 331**	8.960	150	800	20,5
250	**700 649 332**	16.200	250	1000	22,8
280	**700 649 333**	20.950	250	1000	25,5
315	**700 649 334**	31.540	300	1300	28,7
355	**700 649 335**	41.250	300	1500	32,3
400	**700 649 336**	53.800	300	1500	36,4
450	**700 649 337**	70.400	300	1500	41,0



Branch 60° PE100 S8/SDR17.6

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

d [mm]	Code	kg	L1 [mm]	L2 [mm]	e [mm]
110	**700 649 312**	1.176	150	520	6,3
125	**700 649 313**	2.056	150	520	7,1
140	**700 649 314**	2.553	150	570	8,0
160	**700 649 315**	3.202	150	640	9,1
180	**700 649 316**	4.055	150	700	10,2
200	**700 649 317**	30.666	150	800	11,4
225	**700 649 318**	10.360	150	800	12,8
250	**700 649 319**	1.584	250	1000	14,2
280	**700 649 320**	2.046	250	1000	15,9
315	**700 649 321**	2.739	300	1300	17,9
355	**700 649 322**	3.511	300	1500	20,1
400	**700 649 323**	4.495	300	1500	22,7
450	**700 649 324**	5.914	300	1500	25,5

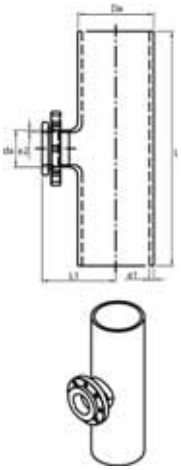


Revision Tees 90°, PE100 SDR11

Model:

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

d [mm]	d1 [mm]	PN	Code	kg	L [mm]	L1 [mm]	e1 [mm]	e2 [mm]
110	110	16	**700 665 656**	1.000	500	236	10,0	10,0
125	125	16	**700 665 657**	1.000	500	248	11,4	11,4
140	140	16	**700 665 658**	1.000	500	265	12,7	12,7
160	110	16	**700 665 659**	1.000	500	278	14,6	10,0
180	110	16	**700 665 660**	1.000	500	350	16,4	10,0
200	140	16	**700 665 661**	1.000	500	350	18,2	12,7
225	140	16	**700 665 662**	1.000	560	400	20,5	12,7
250	160	16	**700 665 663**	1.000	750	450	22,7	14,6
280	225	16	**700 665 664**	1.000	750	350	25,4	20,5
315	225	16	**700 665 665**	1.000	850	400	28,6	20,5
355	225	16	**700 665 666**	1.000	950	450	32,2	20,5
400	225	16	**700 665 667**	1.000	1000	450	36,3	20,5

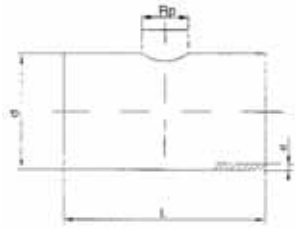


Revision Tees 90°, PE100 SDR17.6

Model:

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

d [mm]	d1 [mm]	PN	Code	kg	L [mm]	L1 [mm]	e1 [mm]	e2 [mm]
110	110	10	**700 665 668**	1.000	500	236	6,3	6,3
125	125	10	**700 665 669**	1.000	500	248	7,1	7,1
140	140	10	**700 665 670**	1.000	500	265	8,0	8,0
160	110	10	**700 665 671**	1.000	500	278	9,1	6,3
180	110	10	**700 665 672**	1.000	500	350	10,2	6,3
200	140	10	**700 665 673**	1.000	500	350	11,4	8,0
225	140	10	**700 665 674**	1.000	560	400	12,8	8,0
250	160	10	**700 665 675**	1.000	750	450	14,2	9,1
280	225	10	**700 665 676**	1.000	750	350	15,9	12,8
315	225	10	**700 665 677**	1.000	850	400	17,9	12,8
355	225	10	**700 665 678**	1.000	950	450	20,1	12,8
400	225	10	**700 665 679**	1.000	1000	450	22,7	12,8
450	315	10	**700 665 680**	1.000	1100	500	25,5	17,9
500	315	10	**700 665 681**	1.000	1200	500	28,4	17,9
560	315	10	**700 665 682**	1.000	1300	550	31,7	17,9
630	315	10	**700 665 683**	1.000	1450	550	35,7	17,9



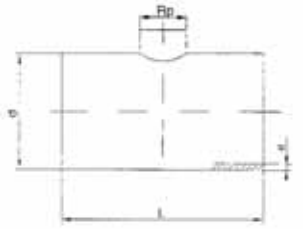
Saddle-tee PE100 S5/SDR11
Outlet with female thread Rp welded

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Thread 1" Code	Thread 11/4" Code	kg	L [mm]	e [mm]
110	**700 649 238**	**700 649 270**	0.850	260	10,0
125	**700 649 239**	**700 649 271**	1.100	260	11,4
140	**700 649 240**	**700 649 272**	1.360	260	12,8
160	**700 649 241**	**700 649 273**	1.750	260	14,6
180	**700 649 242**	**700 649 274**	2.200	360	16,4
200	**700 649 243**	**700 649 275**	2.700	360	18,2
225	**700 649 244**	**700 649 276**	4.720	360	20,5
250	**700 649 245**	**700 649 277**	5.860	360	22,8
280	**700 649 246**	**700 649 278**	7.350	360	25,5
315	**700 649 247**	**700 649 279**	9.310	360	28,7
355	**700 649 248**	**700 649 280**	13.200	460	32,3
400	**700 649 249**	**700 649 281**	19.120	460	36,4
450	**700 649 250**	**700 649 282**	24.200	460	41,0

table continued next page

d [mm]	Thread 1" Code	Thread 11/4" Code	kg	L [mm]	e [mm]
500	**700 649 251**	**700 649 283**	29.850	460	45,5
560	**700 649 252**	**700 649 284**	31.250	460	51,0
630	**700 649 253**	**700 649 285**	43.250	500	57,3



Saddle-tee PE100 S8/SDR17.6
Outlet with female thread Rp welded

- For IR, butt- and electro fusion
- Reduction factor = 0,8

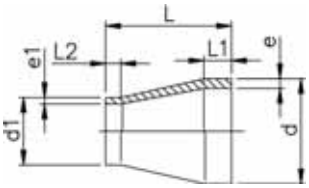
d [mm]	Thread 1" Code	Thread 11/4" Code	kg	L [mm]	e [mm]
110	**700 649 222**	**700 649 254**	0.560	260	6,3
125	**700 649 223**	**700 649 255**	30.666	260	7,1
140	**700 649 224**	**700 649 256**	1.162	260	8,0
160	**700 649 225**	**700 649 257**	1.584	260	9,1
180	**700 649 226**	**700 649 258**	2.046	360	10,2
200	**700 649 227**	**700 649 259**	2.739	360	11,4
225	**700 649 228**	**700 649 260**	3.511	360	12,8
250	**700 649 229**	**700 649 261**	4.495	360	14,2
280	**700 649 230**	**700 649 262**	5.914	360	15,9
315	**700 649 231**	**700 649 263**	10.692	360	17,9
355	**700 649 232**	**700 649 264**	13.827	460	20,1
400	**700 649 233**	**700 649 265**	20.816	460	22,7
450	**700 649 234**	**700 649 266**	27.225	460	25,5
500	**700 649 235**	**700 649 267**	35.508	460	28,3
560	**700 649 236**	**700 649 268**	46.464	460	31,7
630	**700 649 237**	**700 649 269**	0.776	500	35,7

53 90 88

Reducer PE100 SDR11

Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined



d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]	PF
1 25	20	IR	**753 908 637**	0.008	50	20	18	2,3	1,9	2 68 240 011
1 32	20	IR	**753 908 642**	0.010	50	20	18	2,9	1,9	2 68 240 011
1 32	25	IR	**753 908 641**	0.006	50	20	18	2,9	2,3	2 68 240 011
1 40	20	IR	**753 908 648**	0.017	58	20	20	3,7	1,9	2 68 240 011
1 40	25	IR	**753 908 647**	0.017	55	20	18	3,7	2,3	2 68 240 011
1 40	32	IR	**753 908 646**	0.019	55	20	18	3,7	2,9	2 68 240 011
1 50	25	IR	**753 908 654**	0.025	60	20	18	4,6	2,3	2 68 240 011
1 50	32	IR	**753 908 653**	0.026	60	20	18	4,6	2,9	2 68 240 011
1 50	40	IR	**753 908 652**	0.032	60	20	18	4,6	3,7	2 68 240 011
1 63	32	IR	**753 908 660**	0.046	65	20	18	5,8	2,9	2 68 240 011
1 63	40	IR	**753 908 659**	0.051	65	20	18	5,8	3,7	2 68 240 011
1 63	50	IR	**753 908 658**	0.056	65	20	18	5,8	4,6	2 68 240 011
1 75	40	IR	**753 908 666**	0.070	68	20	20	6,8	3,7	2 68 240 011
1 75	50	IR	**753 908 665**	0.074	65	20	18	6,8	4,6	2 68 240 011
1 75	63	IR	**753 908 664**	0.081	65	20	18	6,8	5,8	2 68 240 011
1 90	63	IR	**753 908 671**	0.126	75	21	17	8,2	5,8	2 68 240 011
1 90	75	IR	**753 908 670**	0.132	75	22	17	8,2	6,8	2 68 240 011
1 110	75	IR	**753 908 677**	0.219	90	28	17	10,0	6,8	2 68 240 011
1 110	90	IR	**753 908 676**	0.240	90	28	20	10,0	8,2	2 68 240 011
2 125	110	IR	**753 908 680**	0.350	100	32	26	11,4	10,0	2 68 240 005
2 140	110	IR	**753 908 685**	0.437	110	35	28	12,7	10,0	2 68 240 005
2 140	125	IR	**753 908 684**	0.474	110	35	28	12,7	11,4	2 68 240 005
2 160	110	IR	**753 908 690**	0.612	120	40	25	14,6	10,0	2 68 240 005
2 160	140	IR	**753 908 688**	0.674	120	40	33	14,6	12,7	2 68 240 005
1 180	90	IR	**753 908 877**	0.678	157	45	22	16,4	8,2	2 68 240 011
1 180	110	IR	**753 908 878**	0.991	157	45	28	16,4	10,0	2 68 240 011
1 180	125	IR	**753 908 879**	0.528	136	45	32	16,4	11,4	2 68 240 011
1 180	140	IR	**753 908 880**	0.963	136	45	35	16,4	12,7	2 68 240 011

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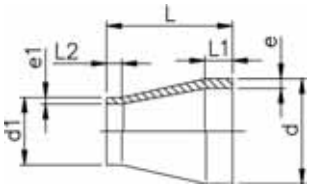
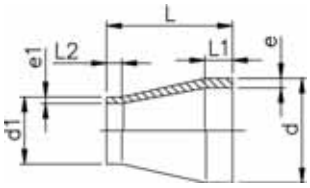


d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]	PF
1 180	160	IR	**753 908 881**	1.094	136	45	40	16,4	14,6	2 68 240 011
2 200	160	IR	**753 908 692**	1.247	150	50	35	18,2	14,6	2 68 240 005
1 200	180	IR	**753 908 883**	1.419	151	50	45	18,2	16,4	2 68 240 011
2 225	110	IR	**753 908 695**	1.559	171	55	45	20,5	10,0	2 68 240 005
2 225	160	IR	**753 908 696**	1.643	160	55	37	20,5	14,6	2 68 240 005
1 225	180	IR	**753 908 885**	1.999	171	55	45	20,5	16,4	2 68 240 011
2 225	200	IR	**753 908 697**	1.844	160	55	48	20,5	18,2	2 68 240 005
1 250	160	--	**753 908 890**	2.416	194	60	40	22,7	14,6	2 68 240 011
3 250	180	--	**753 900 001**	2.513	175	60	55	22,7	16,4	2 68 240 040
3 250	200	--	**753 900 002**	2.450	180	60	60	22,7	18,2	2 68 240 040
1 250	225	--	**753 908 887**	2.766	182	60	55	22,7	20,5	2 68 240 011
3 280	200	--	**753 900 004**	3.540	205	70	50	25,4	18,2	2 68 240 040
1 280	225	--	**753 908 892**	1.943	105	30	20	25,4	20,5	2 68 240 011
1 280	250	--	**753 908 891**	1.802	70	30	18	25,4	22,7	2 68 240 011
3 315	200	--	**753 900 007**	3.996	225	80	50	28,6	20,5	2 68 240 040
1 315	225	--	**753 908 897**	3.491	130	30	30	28,6	20,5	2 68 240 011
1 315	250	--	**753 908 896**	2.379	100	30	20	28,6	22,7	2 68 240 011
1 315	280	--	**753 908 895**	1.684	63	30	18	28,6	25,4	2 68 240 011
3 355	225	--	**753 900 011**	4.700	245	90	55	32,3	20,5	2 68 240 040
3 355	250	--	**753 900 012**	4.400	245	90	60	32,3	22,7	2 68 240 040
3 355	280	--	**753 900 013**	4.100	245	90	70	32,3	25,4	2 68 240 040
3 355	315	--	**753 900 014**	3.700	245	90	80	32,3	28,6	2 68 240 040
3 400	225	--	**753 900 015**	7.963	260	95	60	36,4	20,5	2 68 240 040
3 400	250	--	**753 900 016**	6.800	260	95	70	36,4	22,7	2 68 240 040
3 400	280	--	**753 900 017**	6.200	260	95	70	36,4	25,4	2 68 240 040
3 400	315	--	**753 900 018**	10.829	260	95	80	36,4	28,6	2 68 240 040
3 400	355	--	**753 900 019**	4.800	260	95	90	36,4	32,3	2 68 240 040
3 450	280	--	**753 900 020**	9.000	230	60	70	40,9	25,4	2 68 240 040
3 450	315	--	**753 900 021**	8.000	230	60	80	40,9	28,6	2 68 240 040
3 450	355	--	**753 900 022**	7.400	230	60	90	40,9	32,3	2 68 240 040
3 450	400	--	**753 900 023**	6.600	230	60	95	40,9	36,4	2 68 240 040
3 500	315	--	**753 900 024**	12.000	230	60	80	45,5	28,6	2 68 240 040
3 500	355	--	**753 900 025**	10.800	230	60	90	45,5	32,3	2 68 240 040
3 500	400	--	**753 900 026**	10.000	230	60	95	45,5	36,4	2 68 240 040
3 500	450	--	**753 900 027**	8.300	200	60	60	45,5	40,9	2 68 240 040
3 710	500	--	**753 900 035**	24.157	190	84	40	64,5	45,4	2 68 240 040
3 710	560	--	**753 900 036**	21.770	170	81	40	64,5	50,8	2 68 240 040
3 710	630	--	**753 900 037**	17.845	140	71	40	64,5	57,2	2 68 240 040



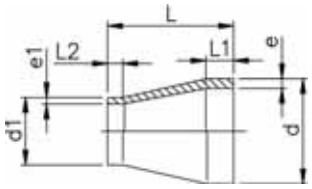
Reducer PE100 SDR17/17.6

Model:

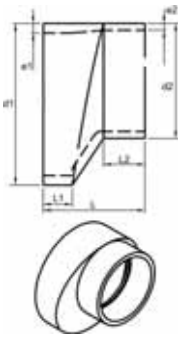
- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined

d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
50	40	IR	**753 908 926**	0.024	55	12	12	2,9	2,3
63	40	IR	**753 908 927**	0.036	65	16	12	3,6	2,3
63	50	IR	**753 908 928**	0.039	65	16	12	3,6	2,9
75	40	IR	**753 908 904**	0.041	71	19	12	4,3	2,3
75	50	IR	**753 908 465**	0.049	65	20	20	4,3	2,9
75	63	IR	**753 908 464**	0.056	65	20	20	4,3	3,6
90	63	IR	**753 908 471**	0.083	75	20	19	5,1	3,6
90	75	IR	**753 908 470**	0.092	75	20	20	5,1	4,3
110	75	IR	**753 908 477**	0.157	89	28	18	6,3	4,3
110	90	IR	**753 908 476**	0.168	90	28	20	6,3	5,1
125	110	IR	**753 908 912**	0.272	108	32	28	7,1	6,3
140	110	IR	**753 908 917**	0.330	115	35	28	8,0	6,3
140	125	IR	**753 908 916**	0.374	115	35	32	8,0	7,1
160	110	IR	**753 908 922**	0.456	124	40	28	9,1	6,3
160	140	IR	**753 908 920**	0.499	124	40	35	9,1	8,0
180	90	IR	**753 908 975**	0.897	157	45	22	10,2	5,1
180	110	IR	**753 908 976**	0.690	157	45	28	10,2	6,3
180	125	IR	**753 908 977**	0.616	136	45	32	10,2	7,1

table continued next page



d [mm]	d1 [mm]	FM	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]	e1 [mm]
180	140	IR	**753 908 978**	0.647	136	45	35	10,2	8,0
180	160	IR	**753 908 979**	0.713	136	45	40	10,2	9,1
200	160	IR	**753 908 931**	0.860	151	50	40	11,4	9,1
200	180	IR	**753 908 981**	0.971	151	50	45	11,4	10,2
225	110	IR	**753 908 938**	1.382	160	55	35	12,8	6,3
225	160	IR	**753 908 933**	1.120	171	55	40	12,8	9,1
225	180	IR	**753 908 985**	1.364	171	55	45	12,8	10,2
225	200	IR	**753 908 932**	1.234	171	55	50	12,8	11,4
250	160	--	**753 908 939**	1.601	194	60	40	14,2	9,1
250	180	--	**753 902 801**	1.690	175	60	55	14,8	10,7
250	200	--	**753 902 802**	1.899	180	60	60	14,8	11,9
250	225	--	**753 908 937**	1.853	182	60	55	14,2	12,8
280	200	--	**753 902 804**	2.585	205	70	50	16,6	11,9
280	225	--	**753 908 944**	1.423	105	30	20	15,9	12,8
280	250	--	**753 908 943**	1.002	70	30	18	15,9	14,2
315	200	--	**753 902 807**	2.907	225	80	50	18,7	11,9
315	225	--	**753 908 950**	2.154	130	30	20	17,9	12,8
315	250	--	**753 908 949**	1.702	100	30	20	17,9	14,2
315	280	--	**753 908 999**	1.598	63	30	18	17,9	15,9
355	225	--	**753 902 811**	4.700	245	90	55	21,1	13,4
355	250	--	**753 902 812**	9.425	245	90	60	21,1	14,8
355	280	--	**753 902 813**	4.280	245	90	70	21,1	16,6
355	315	--	**753 902 814**	3.700	245	90	80	21,1	18,7
400	225	--	**753 902 815**	4.600	260	95	60	23,7	13,4
400	250	--	**753 902 816**	4.400	260	95	70	23,7	14,8
400	280	--	**753 902 817**	5.922	260	95	70	23,7	16,6
400	315	--	**753 902 818**	3.520	260	95	80	23,7	18,7
400	355	--	**753 902 819**	7.163	260	95	90	23,7	21,1
450	280	--	**753 902 820**	6.340	230	60	70	26,7	16,6
450	315	--	**753 902 821**	5.400	230	60	80	26,7	18,7
450	355	--	**753 902 822**	5.000	230	60	90	26,7	21,1
450	400	--	**753 902 823**	8.098	230	60	95	26,7	23,7
500	315	--	**753 902 824**	8.100	230	60	80	29,7	18,7
500	355	--	**753 902 825**	8.424	230	60	90	29,7	21,1
500	400	--	**753 902 826**	7.974	230	60	95	29,7	23,7
500	450	--	**753 902 827**	5.500	200	60	60	29,7	26,7
560	400	--	**753 902 828**	9.900	230	60	95	33,2	23,7
560	450	--	**753 902 829**	8.600	200	60	60	33,2	26,7
560	500	--	**753 902 830**	7.600	200	60	60	33,2	29,7
630	400	--	**753 902 831**	15.100	230	60	95	37,4	23,7
630	450	--	**753 902 832**	13.700	200	60	60	37,4	26,7
630	500	--	**753 902 833**	12.000	200	60	60	37,4	29,7
630	560	--	**753 902 834**	9.800	200	60	60	37,4	33,2
710	500	--	**753 902 835**	16.750	190	84	40	42,1	29,7
710	560	--	**753 902 836**	15.014	170	81	40	42,1	33,2
710	630	--	**753 902 837**	12.215	140	71	40	42,1	37,4
800	560	--	**753 902 838**	22.731	200	85	40	47,4	33,2
800	630	--	**753 902 839**	20.475	180	85	40	47,4	37,4
800	710	--	**753 902 840**	16.774	150	78	40	47,4	42,1
900	630	--	**753 902 841**	32.055	220	96	40	53,3	37,4
900	710	--	**753 902 842**	27.731	190	89	40	53,3	42,1
900	800	--	**753 902 843**	22.854	160	85	40	53,3	47,4
1000	710	--	**753 902 844**	40.412	220	91	40	59,3	42,1
1000	800	--	**753 902 845**	33.910	180	86	40	59,3	47,4
1000	900	--	**753 902 846**	25.824	140	75	40	59,3	53,3

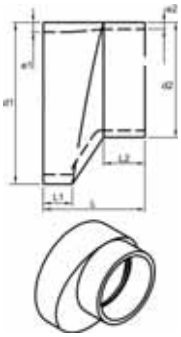


Reducing Bushes eccentric, PE100 SDR11

Model:

- Conventional butt fusion according to DVS2207
- Machined

d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
63	50	16	**700 647 600**	1.000	120	35	35	5,8	4,6
75	50	16	**700 647 601**	1.000	120	40	35	6,8	4,6
75	63	16	**700 647 602**	1.000	120	40	35	6,8	5,8
90	63	16	**700 647 603**	1.000	140	50	50	8,2	5,8
90	75	16	**700 647 604**	1.000	140	50	50	8,2	6,8
110	75	16	**700 647 605**	1.000	140	50	50	10	6,8
110	90	16	**700 647 606**	1.000	140	50	50	10	8,2
125	90	16	**700 647 607**	1.000	140	50	50	11,4	5,1
125	110	16	**700 647 608**	1.000	140	50	50	11,4	10
140	90	16	**700 647 609**	1.000	140	50	50	12,7	8,2
140	110	16	**700 647 610**	1.000	140	50	50	12,7	10
160	90	16	**700 647 611**	1.000	140	50	54	14,6	8,2
160	110	16	**700 647 612**	1.000	120	40	45	14,6	10
160	125	16	**700 647 613**	1.000	110	40	44	14,6	11,4
160	140	16	**700 647 614**	1.000	90	40	33	14,6	12,7
180	125	16	**700 647 615**	1.000	130	40	52	16,4	11,4
180	140	16	**700 647 616**	1.000	110	40	41	16,4	12,7
180	160	16	**700 647 617**	1.000	90	40	33	16,4	16,4
200	140	16	**700 647 618**	1.000	140	40	50	18,2	12,7
200	160	16	**700 647 619**	1.000	120	40	41	18,2	14,6
200	180	16	**700 647 620**	1.000	100	40	43	18,2	16,4
225	160	16	**700 647 621**	1.000	140	40	57	20,5	14,6
225	180	16	**700 647 622**	1.000	120	40	48	20,5	16,4
225	200	16	**700 647 623**	1.000	100	40	40	20,5	18,2
250	180	16	**700 647 624**	1.000	150	40	54	22,7	16,4
250	200	16	**700 647 625**	1.000	130	40	55	22,7	18,2
250	225	16	**700 647 626**	1.000	110	40	40	22,7	20,5
280	200	16	**700 647 627**	1.000	160	40	58	25,4	18,2
280	225	16	**700 647 628**	1.000	130	40	52	25,4	20,5
280	250	16	**700 647 629**	1.000	110	40	47	25,4	22,7
315	225	16	**700 647 630**	1.000	160	40	62	28,6	20,5
315	250	16	**700 647 631**	1.000	140	40	57	28,6	22,7
315	280	16	**700 647 632**	1.000	120	40	54	28,6	25,4
355	250	16	**700 647 633**	1.000	180	40	74	32,2	22,7
355	250	16	**700 647 634**	1.000	150	40	61	32,2	25,4
355	315	16	**700 647 635**	1.000	120	40	51	32,2	28,6
400	280	16	**700 647 636**	1.000	200	40	85	36,3	25,4
400	315	16	**700 647 637**	1.000	170	40	75	36,3	28,6
400	355	16	**700 647 638**	1.000	130	40	58	36,3	32,2
450	355	16	**700 647 639**	1.000	210	40	86	40,9	28,6
450	355	16	**700 647 640**	1.000	180	40	79	40,9	32,2
450	400	16	**700 647 641**	1.000	140	40	65	40,9	36,3
500	400	16	**700 647 642**	1.000	260	40	107	45,4	28,6
500	355	16	**700 647 643**	1.000	220	40	91	45,4	32,2
500	400	16	**700 647 644**	1.000	190	40	86	45,4	36,3
500	450	16	**700 647 645**	1.000	140	40	65	45,4	40,9
560	450	16	**700 647 646**	1.000	200	40	91	50,8	40,9
560	500	16	**700 647 647**	1.000	150	40	70	50,8	45,4
630	500	16	**700 647 648**	1.000	220	40	99	57,2	45,4
630	560	16	**700 647 649**	1.000	170	40	84	57,2	50,8



Reducing Bushes eccentric, PE100 SDR17.6

Model:

- Conventional butt fusion according to DVS2207
- Machined

d1 [mm]	d2 [mm]	PN	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e1 [mm]	e2 [mm]
63	50	10	**700 647 650**	1.000	120	35	35	3,6	2,9
75	50	10	**700 647 651**	1.000	120	40	35	4,3	2,9
75	63	10	**700 647 652**	1.000	120	40	35	4,3	3,6
90	63	10	**700 647 653**	1.000	140	50	50	5,1	3,6
90	75	10	**700 647 654**	1.000	140	50	50	5,1	4,3
110	75	10	**700 647 655**	1.000	140	50	50	6,3	4,3
110	90	10	**700 647 656**	1.000	140	50	50	6,3	5,1
125	90	10	**700 647 657**	1.000	140	50	50	7,1	5,1
125	110	10	**700 647 658**	1.000	140	50	50	7,1	6,3
140	90	10	**700 647 659**	1.000	140	50	50	8,0	5,1
140	110	10	**700 647 660**	1.000	140	50	50	8,0	6,3
160	90	10	**700 647 661**	1.000	140	50	54	9,5	5,4
160	110	10	**700 647 662**	1.000	120	40	45	9,5	6,6
160	125	10	**700 647 663**	1.000	110	40	44	9,5	7,4
160	140	10	**700 647 664**	1.000	90	40	33	9,5	8,3
180	125	10	**700 647 665**	1.000	130	40	52	10,7	7,4
180	140	10	**700 647 666**	1.000	110	40	41	10,7	8,3
180	160	10	**700 647 667**	1.000	90	40	33	10,7	9,5
200	140	10	**700 647 668**	1.000	140	40	50	11,9	8,3
200	160	10	**700 647 669**	1.000	120	40	41	11,9	9,5
200	180	10	**700 647 670**	1.000	100	40	43	11,9	10,7
225	160	10	**700 647 671**	1.000	140	40	57	13,4	9,5
225	180	10	**700 647 672**	1.000	120	40	48	13,4	10,7
225	200	10	**700 647 673**	1.000	100	40	40	13,4	11,9
250	180	10	**700 647 674**	1.000	150	40	54	14,8	10,7
250	200	10	**700 647 675**	1.000	130	40	55	14,8	11,9
250	225	10	**700 647 676**	1.000	110	40	40	14,8	13,4
280	200	10	**700 647 677**	1.000	160	40	58	16,6	11,9
280	225	10	**700 647 678**	1.000	130	40	52	16,6	13,4
280	250	10	**700 647 679**	1.000	110	40	47	16,6	14,8
315	225	10	**700 647 680**	1.000	160	40	62	18,7	13,4
315	250	10	**700 647 681**	1.000	140	40	57	18,7	14,8
315	280	10	**700 647 682**	1.000	120	40	54	18,7	16,6
355	250	10	**700 647 683**	1.000	180	40	74	21,1	14,8
355	280	10	**700 647 684**	1.000	150	40	61	21,1	16,6
355	315	10	**700 647 685**	1.000	120	40	51	21,1	18,7
400	280	10	**700 647 686**	1.000	200	40	85	23,7	16,6
400	315	10	**700 647 687**	1.000	170	40	75	23,7	18,7
400	355	10	**700 647 688**	1.000	130	40	58	23,7	21,1
450	315	10	**700 647 689**	1.000	210	40	86	26,7	18,7
450	355	10	**700 647 690**	1.000	180	40	79	26,7	21,1
450	400	10	**700 647 691**	1.000	140	40	65	26,7	23,7
500	315	10	**700 647 692**	1.000	260	40	107	29,7	18,7
500	355	10	**700 647 693**	1.000	220	40	91	29,7	21,1
500	400	10	**700 647 694**	1.000	190	40	86	29,7	23,7
500	450	10	**700 647 695**	1.000	140	40	65	29,7	26,7
560	450	10	**700 647 696**	1.000	200	40	91	33,2	26,7
560	500	10	**700 647 697**	1.000	150	40	70	33,2	29,7
630	500	10	**700 647 698**	1.000	220	40	99	37,4	29,7
630	560	10	**700 647 699**	1.000	170	40	84	37,4	33,2

End Cap PE100, SDR11

Model:

- Conventional butt fusion according to DVS2207
- Machined

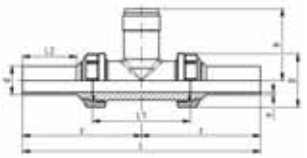
d [mm]	PN	Code	L [mm]	L1 [mm]	e [mm]	r [mm]
63	16	**700 665 184**	30	15	5,8	5
75	16	**700 665 185**	30	15	6,8	5
90	16	**700 665 186**	30	15	8,2	5
110	16	**700 665 187**	30	15	10,0	5
125	16	**700 665 188**	35	15	11,4	5
140	16	**700 665 189**	40	15	12,7	5
160	16	**700 665 190**	40	15	14,6	6
180	16	**700 665 191**	45	15	16,4	6
200	16	**700 665 192**	50	15	18,2	6
225	16	**700 665 193**	50	15	20,5	8
250	16	**700 665 194**	55	15	22,7	8
280	16	**700 665 195**	60	15	25,4	8
315	16	**700 665 196**	65	15	28,6	8
355	16	**700 665 197**	70	15	32,2	8
400	16	**700 665 198**	75	15	36,3	10
450	16	**700 665 199**	80	15	40,9	10
500	16	**700 665 200**	90	14	45,4	10
560	16	**700 665 201**	100	14	50,8	10
630	16	**700 665 202**	110	15	57,2	10

End Cap PE100, SDR17.6

Model:

- Conventional butt fusion according to DVS2207
- Machined

d [mm]	PN	Code	L [mm]	L1 [mm]	e [mm]	r [mm]
63	10	**700 665 260**	30	15	3,6	5
75	10	**700 665 261**	30	15	4,3	5
90	10	**700 665 262**	30	15	5,1	5
110	10	**700 665 263**	30	15	6,3	5
125	10	**700 665 264**	30	15	7,1	5
140	10	**700 665 265**	30	15	8,0	5
160	10	**700 665 266**	35	15	9,1	6
180	10	**700 665 267**	40	15	10,2	6
200	10	**700 665 268**	40	15	11,4	6
225	10	**700 665 269**	45	15	12,8	8
250	10	**700 665 270**	45	15	14,2	8
280	10	**700 665 271**	45	15	15,9	8
315	10	**700 665 272**	55	15	17,9	8
355	10	**700 665 273**	55	15	20,1	8
400	10	**700 665 274**	60	15	22,7	10
450	10	**700 665 275**	70	15	26,7	10
500	10	**700 665 276**	75	14	29,7	10
560	10	**700 665 277**	80	14	33,2	10
630	10	**700 665 278**	90	15	37,4	10



Installation fitting type 318 PE100 SDR 11
For butt fusion systems metric

Model:

- Body and union nut PP-H
- Threaded outlet 1 ¼" NPSM
- Union end with butt fusion spigot PE100

Range of use:

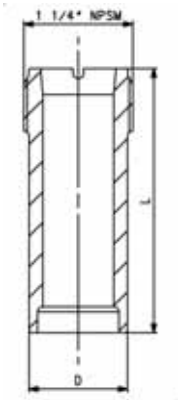
- compatible signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- compatible signet pH/ORP sensors: type 2724, 2725, 2726

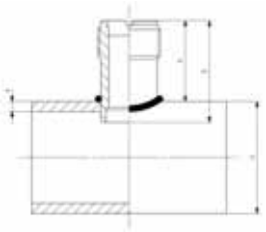
Attention:

- sensor length depends on installation fitting

d [mm]	DN [mm]	PN	FM	EPDM Code	FPM Code	kg
20	15	10	IR	**753 318 006**	**753 318 036**	0.136
25	20	10	IR	**753 318 007**	**753 318 037**	0.190
32	25	10	IR	**753 318 008**	**753 318 038**	0.250
40	32	10	IR	**753 318 009**	**753 318 039**	0.356
50	40	10	IR	**753 318 010**	**753 318 040**	0.510
63	50	10	IR	**753 318 011**	**753 318 041**	0.800

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





Installation fitting type 314 PE100

Model:

- Material: PE100
- Threaded outlet 1 ¼" NPSM
- for conventional hot gas back welding according to DVS 2207 part 3

Range of use:

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

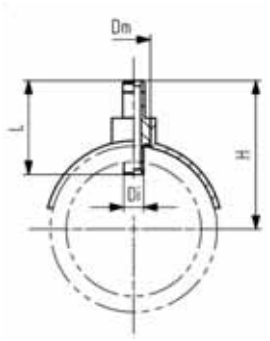
Attention:

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

d [mm]	DN	PN* [bar]	Code	kg	D [mm]	L [mm]	Sensor Type
75 - 180	65 - 150	-	**753 314 000**	0.042	37	68	flow X0, pH XX
200 - 355	200 - 350	-	**753 314 001**	0.057	37	102	flow X1
400 - 630	350 - 600	-	**753 314 002**	0.934	37	178	flow X2

21 31 00

Installation fitting type 312 PE electrofusion system



Model:

- Material: Polyethylene
- Threaded outlet 1 ¼" NPSM

Range of use:

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

Attention:

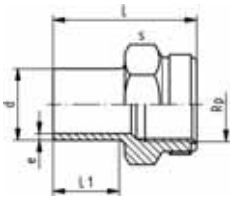
- sensor length depends on installation fitting

d [mm]	Code	kg	PN [bar]	H [mm]	Di [mm]	L [mm]	Dm [mm]	Sensor Type
75	**753 312 012**	1.000	16	126.10	37.8	101.6	63	flow x1
90	**753 312 013**	1.000	16	132.80	37.8	101.6	63	flow x1
110	**753 312 014**	1.000	16	142.00	37.8	101.6	63	flow x1
125	**753 312 015**	1.000	16	141.60	37.8	101.6	63	flow x1
140	**753 312 016**	1.000	16	145.90	37.8	101.6	63	flow x1
160	**753 312 017**	1.000	16	153.00	37.8	101.6	63	flow x1
180	**753 312 018**	1.000	16	235.20	37.8	177.8	63	flow x2
200	**753 312 019**	1.000	16	244.00	37.8	177.8	63	flow x2
225	**753 312 020**	1.000	16	250.30	37.8	177.8	63	flow x2
250	**753 312 021**	1.000	16	257.80	37.8	177.8	63	flow x2
280	**753 312 022**	1.000	16	267.80	37.8	177.8	63	flow x2
315	**753 312 023**	1.000	16	279.00	37.8	177.8	63	flow x2
355	**753 312 024**	1.000	16	344.64	37.8	177.8	63	flow x2
400	**753 312 025**	1.000	16	359.20	37.8	177.8	63	flow x2

Adaptor Fittings for Butt Fusion

53 91 02

Adaptor socket PE100 SDR11 metric Rp



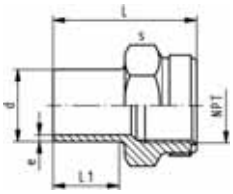
Model:

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

d [mm]	Rp [inch]	DN [mm]	FM	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	15	IR	**753 910 266**	0.018	48	23	32	1,9
25	¾	20	IR	**753 910 267**	0.022	50	23	36	2,3
32	1	25	IR	**753 910 268**	0.038	54	23	46	2,9
40	1 ¼	32	IR	**753 910 269**	0.068	56	23	55	3,7
50	1 ½	40	IR	**753 910 270**	0.083	60	23	65	4,6
63	2	50	IR	**753 910 271**	0.134	62	23	80	5,8

53 91 42

Adaptor socket PE100 SDR11 metric NPT



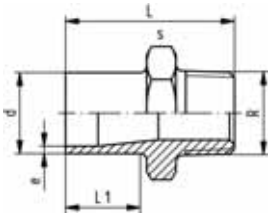
Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- NPT tapered female thread to ASTM F 1498
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d [mm]	NPT [inch]	FM	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	IR	**753 914 266**	0.018	48	23	32	1.9
25	¾	IR	**753 914 267**	0.022	50	23	36	2.3
32	1	IR	**753 914 268**	0.038	54	23	46	2.9
40	1 ¼	IR	**753 914 269**	0.058	56	23	55	3.7
50	1 ½	IR	**753 914 270**	0.083	60	23	65	4.6
63	2	IR	**753 914 271**	0.134	62	23	80	5.8

53 91 05

Adaptor nipple PE100 SDR11 metric R



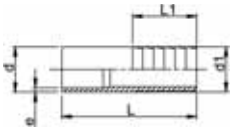
Model:

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

d [mm]	R [inch]	DN [mm]	FM	Code	kg	L [mm]	L1 [mm]	s [mm]	e [mm]
20	½	15	IR	**753 910 556**	0.013	51	23	32	1,9
25	¾	20	IR	**753 910 557**	0.026	52	23	36	2,3
32	1	25	IR	**753 910 558**	0.028	55	23	46	3,0
40	1 ¼	32	IR	**753 910 559**	0.043	58	23	55	3,7
50	1 ½	40	IR	**753 910 560**	0.063	60	23	65	4,6
63	2	50	IR	**753 910 561**	0.104	67	26	80	5,8

53 96 86

Hose connector PE100 SDR11 metric



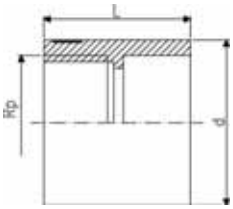
Model:

- With butt fusion spigot **SDR11** and parallel hose connection

d [mm]	d1 [mm]	DN [mm]	FM	Code	kg	L [mm]	L1 [mm]	e [mm]
20	20	15	IR	**753 968 606**	0.007	64	27	1,9
25	25	20	IR	**753 968 607**	0.015	75	36	2,3
32	32	25	IR	**753 968 608**	0.023	82	36	2,9
40	40	32	IR	**753 968 609**	0.034	84	42	3,7
50	50	40	IR	**753 968 610**	0.057	90	48	4,6
63	60	50	IR	**753 968 611**	0.095	100	50	5,8

73 28 19

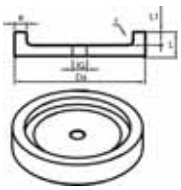
PE adaptor
Female thread



- **PE 80 SDR 11** (ISO S5)
- 5 bar Gas / 12,5 bar Water
- Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF Plus Branch Saddle (53 131 000) d63 - 400mm, pipe SDR 11, d75 - 400mm, pipe SDR 17
- Parallel female thread
- *PE 100 SDR 11 (ISO S5)

d [mm]	Rp [inch]	Code	kg	L [mm]
63	1 ½	**173 281 925**	0.088	54
63	½	**193 281 617**	0.060	68

End Cap PE100, SDR11
with female thread

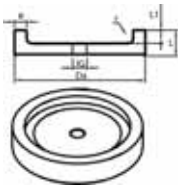


Model:

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

d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	e [mm]	r [mm]
63	½	16	**700 665 203**	30	15	5,8	5
75	½	16	**700 665 204**	30	15	6,8	5
90	½	16	**700 665 205**	30	15	8,2	5
110	½	16	**700 665 206**	30	15	10	5
125	½	16	**700 665 207**	35	15	11,4	5
140	½	16	**700 665 208**	40	15	12,7	5
160	½	16	**700 665 209**	40	15	14,6	6
180	½	16	**700 665 210**	45	15	16,4	6
200	½	16	**700 665 211**	50	15	18,2	6
225	½	16	**700 665 212**	50	15	20,5	8
250	½	16	**700 665 213**	55	15	22,7	8
280	½	16	**700 665 214**	60	15	25,4	8
315	½	16	**700 665 215**	65	15	28,6	8
355	½	16	**700 665 216**	70	15	32,2	8
400	½	16	**700 665 217**	75	15	36,3	10
450	½	16	**700 665 218**	80	15	40,9	10

table continued next page

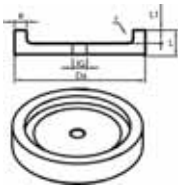


d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	e [mm]	r [mm]
500	½	16	**700 665 219**	90	14	45,4	10
560	½	16	**700 665 220**	100	14	50,8	10
630	½	16	**700 665 221**	110	15	57,2	10

End Cap PE100, SDR17.6 with female thread

Model:

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

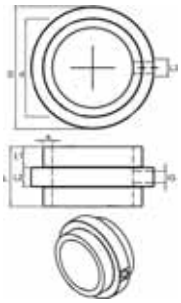


d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	e [mm]	r [mm]
63	½	10	**700 665 279**	30	15	3,6	5
75	½	10	**700 665 280**	30	15	4,3	5
90	½	10	**700 665 281**	30	15	5,1	5
110	½	10	**700 665 282**	30	15	6,3	5
125	½	10	**700 665 283**	30	15	7,1	5
140	½	10	**700 665 284**	30	15	8,0	5
160	½	10	**700 665 285**	35	15	9,1	6
180	½	10	**700 665 286**	40	15	10,2	6
200	½	10	**700 665 287**	40	15	11,4	6
225	½	10	**700 665 288**	45	15	12,8	8
250	½	10	**700 665 289**	45	15	14,2	8
280	½	10	**700 665 290**	45	15	15,9	8
315	½	10	**700 665 291**	55	15	17,9	8
355	½	10	**700 665 292**	55	15	20,1	8
400	½	10	**700 665 293**	60	15	22,7	10
450	½	10	**700 665 294**	70	15	26,7	10
500	½	10	**700 665 295**	75	14	29,7	10
560	½	10	**700 665 296**	80	14	33,2	10
630	½	10	**700 665 297**	90	15	37,2	10

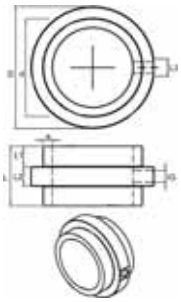
Instrument Installation Fittings PE, SDR11 with female thread

Model:

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



d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	L2 [mm]	D [mm]	e [mm]
63	½	16	**700 665 425**	90	30	30	90	5,8
75	½	16	**700 665 426**	90	30	30	110	6,8
90	½	16	**700 665 427**	100	30	40	125	8,2
110	½	16	**700 665 428**	100	30	40	140	10
125	½	16	**700 665 429**	110	35	40	160	11,4
140	½	16	**700 665 430**	125	40	45	180	12,7
160	½	16	**700 665 431**	125	40	45	200	14,6
180	½	16	**700 665 432**	135	45	45	225	16,4
200	½	16	**700 665 433**	135	45	45	250	18,2
225	½	16	**700 665 434**	135	45	45	280	20,5
250	½	16	**700 665 435**	145	50	45	280	22,7
280	½	16	**700 665 436**	155	50	55	315	25,4
315	½	16	**700 665 437**	155	50	55	355	28,6
355	½	16	**700 665 438**	115	30	55	400	32,2
400	½	16	**700 665 439**	130	30	70	450	36,3



Instrument Installation Fittings PE, SDR17.6 with female thread

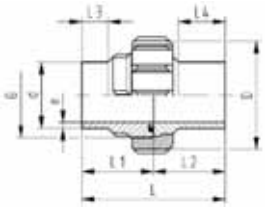
Model:

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

d [mm]	Rp [inch]	PN	Code	L [mm]	L1 [mm]	L2 [mm]	D [mm]	e [mm]
63	½	10	**700 665 462**	90	30	30	90	3,6
75	½	10	**700 665 463**	90	30	30	110	4,3
90	½	10	**700 665 464**	100	30	40	125	5,1
110	½	10	**700 665 465**	100	30	40	140	6,3
125	½	10	**700 665 466**	110	35	40	160	7,1
140	½	10	**700 665 467**	125	40	45	180	8,0
160	½	10	**700 665 468**	125	40	45	200	9,1
180	½	10	**700 665 469**	135	45	45	225	10,2
200	½	10	**700 665 470**	135	45	45	250	11,4
225	½	10	**700 665 471**	135	45	45	280	12,8
250	½	10	**700 665 472**	145	50	45	280	14,2
280	½	10	**700 665 473**	155	50	55	315	15,9
315	½	10	**700 665 474**	155	50	55	355	17,9
355	½	10	**700 665 475**	115	30	55	400	20,1
400	½	10	**700 665 476**	130	30	70	450	22,7

Unions for butt fusion

Union PE100 S5/SDR11



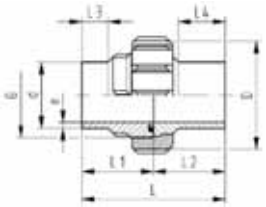
Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- Gasket: O-Ring EPDM No. 48 41 00
- **For the dimensions d75-110 please see instructions for the installation**

d [mm]	PN	FM	EPDM Code	FPM Code	kg
20	16	IR	**753 518 606**	**753 528 606**	0.042
25	16	IR	**753 518 607**	**753 528 607**	0.052
32	16	IR	**753 518 608**	**753 528 608**	0.083
40	16	IR	**753 518 609**	**753 528 609**	0.151
50	16	IR	**753 518 610**	**753 528 610**	0.196
63	16	IR	**753 518 611**	**753 528 611**	0.406
75	10	IR	**753 518 612**	**753 528 612**	0.520
90	10	IR	**753 518 613**	**753 528 613**	0.562
110	10	IR	**753 518 614**	**753 528 614**	0.760

d [mm]	D [mm]	G [inch]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	e [mm]
20	48	1	107	54.0	53.0	26	38	1,9
25	58	1 1/4	113	57.0	56.0	26	42	2,3
32	65	1 1/2	119	60.0	59.0	25	41	3,0
40	79	2	126	63.0	63.0	25	42	3,7
50	91	2 1/4	131	65.5	65.5	25	44	4,6
63	111	2 3/4	137	69.0	68.0	25	45	5,8
75	135	S107,5x3,6	132	66.0	65.5	24	34	6,8
90	135	S107,5x3,6	131	65.5	65.5	24	45	8,2
110	158	S127,5x3,6	131	65.5	65.5	25	40	10,0

Union PE100 S8.3/SDR17.6



Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- Gasket: O-Ring EPDM No. 48 41 00
- **For the dimensions d75-110 please see instructions for the installation**

d [mm]	PN	FM	EPDM Code	FPM Code	kg
75	10	IR	**753 518 412**	**753 528 412**	0.476
90	10	IR	**753 518 413**	**753 528 413**	0.483
110	10	IR	**753 518 414**	**753 528 414**	0.663

d [mm]	D [mm]	G [inch]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
75	135	S107,5x3,6	132	66.0	66.0	4,3
90	135	S107,5x3,6	131	65.5	65.5	5,1
110	158	S127,5x3,6	131	65.5	65.5	6,3

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

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

Caution

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

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

Tip

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

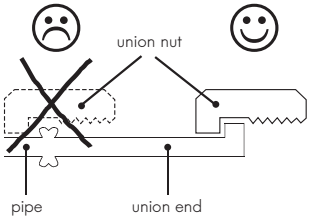


Fig. 1

② For the dimensions d 90 and d 110 we advise fusing the complete union, if possible (or slide the union nut to the collar of the union end) because after fusion the union nut cannot be slid over the fusion bead. (Fig. 1)

③ For design reasons, it is theoretically possible to combine different nominal diameters of union ends and nuts. To make sure combinations are technically correct, you can find the code numbers of the single parts and spare parts for each union in the Tables 1-3.

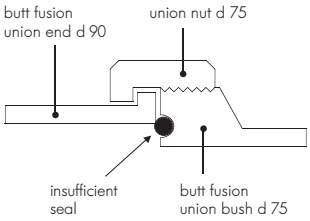


Fig. 2

Caution

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

A butt fusion union bush d 75 may not be combined with a butt fusion union end d 90 to form a reducer because this can cause leakage, as illustrated to the left. (Fig. 2)

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

SF/MS 75	specified for socket fusion d 75
BF/ST 75–90	specified for butt fusion d 75–75 and d 90–90
SF/MS 90	specified socket fusion d 90
BF/ST 110	specified butt fusion d 110
110	specified for socket fusion d 110

Tip

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

Selection tables for single parts and spare parts

Butt fusion

Socket fusion

Table 1

Single parts for **PP-H** unions d 75, d 90 and d 110

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

Table 2

Single parts for **PE 100** unions d 75, d 90 and d 110

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

Table 3

O-Rings for PP-H, PE 100

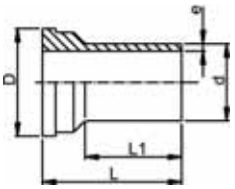
d	BF/ST	SF/MS	SDR	PN	Code O-Ring EPDM[1]	Code O-Ring FPM[1]
75				16	748 410 013	749 410 013
				16	748 410 014	749 410 014
90				16	748 410 014	749 410 014
				16	748 410 015	749 410 015
110				16	748 410 015	749 410 015
				16	748 410 016	749 410 016

* Union nuts overlap several dimensions

[1] Flange adaptor O-rings, one size smaller in nominal dimensions, are used for the d 75–110 butt-fusion unions

53 60 86

Union Ends, PE100 SDR11

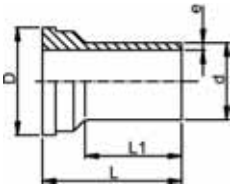


Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- **For the dimensions d75-110 please see instructions for the installation**

d [mm]	PN	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	e [mm]
20	16	IR	**753 508 606**	0.011	30	54	38	1,9
25	16	IR	**753 508 607**	0.018	39	57	42	2,3
32	16	IR	**753 508 608**	0.027	45	60	41	2,9
40	16	IR	**753 508 609**	0.044	57	63	42	3,7
50	16	IR	**753 508 610**	0.061	63	66	44	4,6
63	16	IR	**753 508 611**	0.100	78	69	45	5,8
75	10	IR	**753 608 612**	0.147	101	66	34	6,8
90	10	IR	**753 608 613**	0.156	101	66	45	8,2
110	10	IR	**753 608 614**	0.226	121	66	40	10,0

Union Ends, PE100 SDR17,6

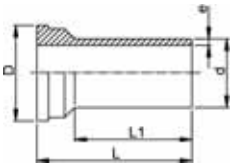


Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- **For the dimensions d75-110 please see instructions for the installation**

d [mm]	PN	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	e [mm]
75	10	IR	**753 608 412**	0.124	101	66	34	4,3
90	10	IR	**753 608 413**	0.131	101	66	45	5,1
110	10	IR	**753 608 414**	0.178	121	66	40	6,3

Union Ends long, PE100



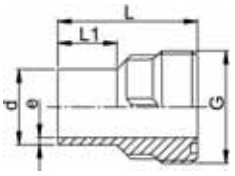
Model:

- For butt-, IR Plus® and electrofusion
- Suitable for unions, tank connectors and diaphragm valves Type 514

d [mm]	PN	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	e [mm]
20	16	IR	**753 508 616**	0.006	30	67	52	1,9
25	16	IR	**753 508 617**	0.019	39	71	53	2,3
32	16	IR	**753 508 618**	0.027	45	73	55	2,9
40	16	IR	**753 508 619**	0.048	57	81	60	3,7
50	16	IR	**753 508 620**	0.069	63	87	66	4,6
63	16	IR	**753 508 621**	0.120	78	93	70	5,8

53 64 86

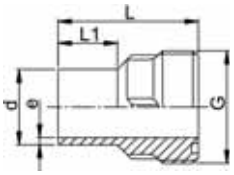
Union Bushes, PE100 SDR11



Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- Gasket: O-Ring EPDM No. 48 41 00
- **For the dimensions d75-110 please see instructions for the installation**

d [mm]	PN	FM	Code	kg	G [inch]	L [mm]	L1 [mm]	e [mm]
20	16	IR	**753 648 606**	0.016	1	54	26	1,9
25	16	IR	**753 648 607**	0.025	1 1/4	57	26	2,3
32	16	IR	**753 648 608**	0.035	1 1/2	60	25	2,9
40	16	IR	**753 648 609**	0.057	2	63	25	3,7
50	16	IR	**753 648 610**	0.077	2 1/4	66	25	4,6
63	16	IR	**753 648 611**	0.128	2 3/4	69	25	5,8
75	10	IR	**753 648 612**	0.181	S107,5x3,6	66	24	6,8
90	10	IR	**753 648 613**	0.192	S107,5x3,6	66	24	8,2
110	10	IR	**753 648 614**	0.272	S127,5x3,6	66	25	10



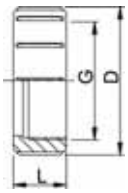
Union Bushes, PE100 SDR17,6

Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared- (IR Plus®) compatible.
- **For the dimensions d75-110 please see instructions for the installation**

d [mm]	PN	FM	Code	kg	G [inch]	L [mm]	L1 [mm]	e [mm]
75	10	IR	**753 648 412**	0.158	S107.5x3.6	66	24	4,3
90	10	IR	**753 648 413**	0.161	S107.5x3.6	66	24	5,1
110	10	IR	**753 648 414**	0.216	S127.5x3.6	66	25	6,3

33 69 04



Union Nuts, PE-GF

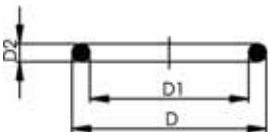
Model:

- PE glass-fibre reinforced
- For the dimensions d75-110 please see instructions for the installation

* PP glass fibre reinforced

d-d [mm]	Code	kg	G [inch]	D [mm]	L [mm]
20 -	**733 690 406**	0.022	1	48	24
25 -	**733 690 407**	0.036	1 1/4	58	26
32 -	**733 690 408**	0.042	1 1/2	65	28
40 -	**733 690 409**	0.068	2	79	31
50 -	**733 690 410**	0.097	2 1/4	91	35
63 -	**733 690 411**	0.164	2 3/4	111	39
* 75 - 90	**727 690 442**	0.202	S107,5x3,6	135	40
* 90 - 110	**727 690 443**	0.277	S127,5x3,6	158	43

EPDM 48 41 00
FPM 49 41 00



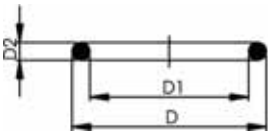
O-Ring Gaskets

Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FPM minimum temperature -15°C

* for unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

d [mm]	DN [mm]	EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	D2 [mm]
20	15	**748 410 006**	**749 410 006**	0.001	27	20	3.53
25	20	**748 410 007**	**749 410 007**	0.002	35	28	3.53
32	25	**748 410 008**	**749 410 008**	0.002	40	33	3.53
40	32	**748 410 009**	**749 410 009**	0.007	51	41	5.34
50	40	**748 410 010**	**749 410 010**	0.060	58	47	5.34
63	50	**748 410 011**	**749 410 011**	0.003	70	60	5.34



O-Ring Gasket, FPM black

Model:

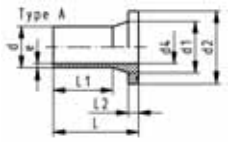
- for unions PP-H, PE100 and PVDF butt fusion
- d75 748 410 013 (EPDM), 749 410 013 (FPM)
  d90 748 410 014 (EPDM), 749 410 014 (FPM)
  d110 748 410 015 (EPDM), 749 410 015 (FPM)

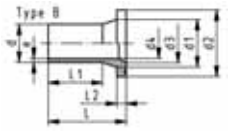
EPDM Code	FPM Code	kg	D [mm]	D1 [mm]	D2 [mm]
748 410 013	**749 410 013**	0.011	80		
748 410 014	**749 410 014**	0.012	93		
748 410 015	**749 410 015**	0.015	112		

Flange Adaptors, Flanges and Gaskets for Butt Fusion

538000

Flange adaptor PE100 S5/SDR11
Combined jointing face: flat and serrated





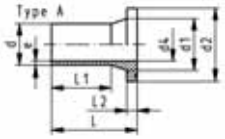
Model:

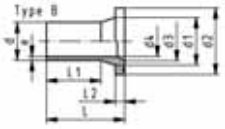
- Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric **(from d110 also to ANSI/ASME B16.5)**
- Up to d315, suitable for butterfly valve type 567/568
  Above use PE100 Adaptor for butterfly valves SDR11 (d355-d800)
- Up to d280, suitable for butterfly valve type 037/038/039
  Above use PE100 Adaptor for butterfly valves SDR11 (d315-d800)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 10 bar Gas / 16 bar Water
- Type A without chamfer, Type B with chamfer

d [mm]	DN [mm]	FM	Code	kg
20	15	IR	**753 800 006**	0.022
25	20	IR	**753 800 007**	0.037
32	25	IR	**753 800 008**	0.059
40	32	IR	**753 800 009**	0.081
50	40	IR	**753 800 010**	0.129
63	50	IR	**753 800 011**	0.187
75	65	IR	**753 800 012**	0.314
90	80	IR	**753 800 013**	0.471
110	100	IR	**753 800 014**	0.706
125	100	IR	**753 800 015**	0.883
140	125	IR	**753 800 016**	1.348
160	150	IR	**753 800 017**	1.718
180	150	IR	**753 800 018**	2.035
200	200	IR	**753 800 019**	2.899
225	200	IR	**753 800 020**	3.208
250	250	--	**753 800 021**	4.878
280	250	--	**753 800 022**	4.925
315	300	--	**753 800 023**	7.135
355	350	--	**753 800 024**	10.400
400	400	--	**753 800 025**	14.600
450	500	--	**753 800 026**	24.800
500	500	--	**753 800 027**	27.400
560	600	--	**753 800 028**	40.000
630	600	--	**753 800 029**	42.300
710	700	--	**753 800 030**	56.379
800	800	--	**753 800 033**	72.636

d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	PF	Type
20	15	27	45		16	85	41	7	1.9	2 51 301 001	A
25	20	33	58		20	85	41	9	2.3	2 51 301 001	A
32	25	40	68		26	85	44	10	3.0	2 51 301 001	A
40	32	50	78		32	85	49	11	3.7	2 51 301 001	A
50	40	61	88		40	105	55	12	4.6	2 51 301 001	A
63	50	75	102		51	98	69	14	5.8	2 51 301 001	A
75	65	89	122	66	61	125	89	16	6.8	2 51 301 001	B
90	80	105	138	78	73	140	103	17	8.2	2 51 301 001	B
110	100	125	158	100	90	160	114	18	10.0	2 51 301 001	B
125	100	132	158	114	102	170	125	25	11.4	2 51 301 001	B
140	125	155	188	127	114	200	147	25	12.7	2 51 301 001	B
160	150	175	212	151	130	200	147	25	14.6	2 51 301 001	B
180	150	180	212	158	147	200	170	30	16.4	2 51 301 001	B
200	200	232	268	203	163	200	128	32	18.2	2 51 301 001	B
225	200	235	268	210	184	200	138	32	20.5	2 51 301 001	B
250	250	285	320	245	204	219	138	35	22.7	2 51 301 002	B
280	250	291	320	265	229	231	144	35	25.4	2 51 301 002	B

table continued next page

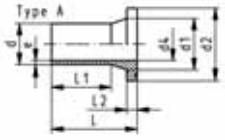


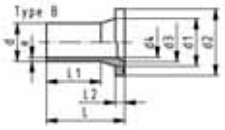


d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	PF	Type
315	300	335	370	300	257	239	158	35	28.6	2 51 301 002	B
355	350	373	430	340	290	260	176	40	32.3	2 51 301 008	B
400	400	427	482	385	327	290	186	46	36.3	2 51 301 008	B
450	500	514	585	400	368	333	195	60	40.9	2 51 301 008	B
500	500	530	585	440	409	350	212	60	45.5	2 51 301 008	B
560	600	615	685	490	458	365	230	60	50.9	2 51 301 008	B
630	600	642	685	545	515	385	250	60	57.3	2 51 301 008	B
710	700	737	800		581	400	280	60	64.5	2 51 301 008	A
800	800	840	905		652	400	280	65	74.0	2 51 301 008	A

53 80 00

Flange adaptor LS PE100 SDR11
Combined jointing face:flat and serrated





Model:

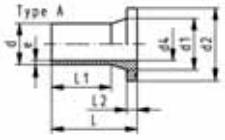
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to **ANSI/ASME B 16.5**
- Suitable for butterfly valve type 567/568 and 037/038/039
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 10 bar Gas / 16 bar Water

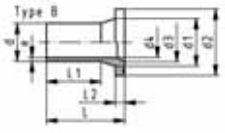
*** Type B with chamfer**

d [mm]	DN [mm]	FM	Code	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
25	20	IR	**753 800 057**	0.031	33	54		20	85	41	9	2.3
32	25	IR	**753 800 058**	0.046	40	63		26	85	44	10	3.0
40	32	IR	**753 800 059**	0.070	50	73		32	85	49	11	3.7
50	40	IR	**753 800 060**	0.098	61	82		40	105	55	12	4.6
* 90	80	IR	**753 800 063**	0.423	105	133		73	140	85	17	8.2

538000
538001

Flange adaptor PE100 SDR17/17.6
Combined jointing face: flat and serrated





Model:

- Long spigot
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric **(from d110 also to ANSI/ASME B16.5)**
- Up to d315, suitable for butterfly valve type 567/568
  Above use PE100 Adaptor for butterfly valves SDR17/17.6 (d355-d1200)
- Up to d280, suitable for butterfly valve type 037/038/039
  Above use PE100 Adaptor for butterfly valves SDR17/17.6 (d315-d1200)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- 5 bar Gas / 10 bar Water
- Type A without chamfer, Type B with chamfer

d [mm]	DN [mm]	FM	Code	kg
50	40	IR	**753 800 085**	0.107
63	50	IR	**753 800 086**	0.168
75	65	IR	**753 800 087**	0.260
90	80	IR	**753 800 088**	0.367
110	100	IR	**753 800 089**	0.571
125	100	IR	**753 800 090**	0.684
140	125	IR	**753 800 091**	1.035
160	150	IR	**753 800 092**	1.342
180	150	IR	**753 800 093**	1.469
200	200	IR	**753 800 094**	2.297

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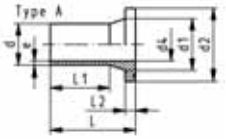
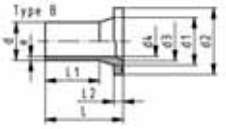




d [mm]	DN [mm]	FM	Code	kg
225	200	IR	**753 800 095**	2.456
250	250	--	**753 800 096**	3.500
280	250	--	**753 800 097**	3.714
315	300	--	**753 800 098**	5.470
355	350	--	**753 800 099**	16.200
400	400	--	**753 800 100**	10.300
450	500	--	**753 800 101**	15.800
500	500	--	**753 800 102**	19.995
560	600	--	**753 800 103**	27.500
630	600	--	**753 800 104**	30.000
710	700	--	**753 800 105**	39.376
800	800	--	**753 800 106**	50.759
900	900	--	**753 800 107**	64.202
1000	1000	--	**753 800 108**	79.495

d [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	PF	Type
50	61	88		44	104	55	12	3.0	2 51 301 001	A
63	75	102		55	120	65	14	3.8	2 51 301 001	A
75	89	122		66	130	75	16	4.5	2 51 301 001	A
90	105	138		79	140	103	17	5.4	2 51 301 001	A
110	125	158		96	160	117	18	6.6	2 51 301 001	A
125	132	158	114	110	170	125	25	7.4	2 51 301 001	B
140	155	188	127	123	200	147	25	8.3	2 51 301 001	B
160	175	212	158	141	200	147	25	9.5	2 51 301 001	B
180	180	212		158	200	170	30	10.7	2 51 301 001	A
200	232	268	203	176	200	128	32	11.9	2 51 301 001	B
225	235	268	210	198	200	138	32	13.4	2 51 301 001	B
250	285	320	245	220	220	148	25	14.8	2 51 301 002	B
280	291	320	265	246	230	154	25	16.6	2 51 301 002	B
315	335	370	300	277	242	166	36	18.7	2 51 301 002	B
355	373	430	340	312	261	179	30	21.1	2 51 301 008	B
400	427	483	385	352	290	196	33	23.7	2 51 301 008	B
450	514	585		396	333	195	60	26.7	2 51 301 008	A
500	530	585		440	350	212	60	29.7	2 51 301 008	A
560	615	685		493	365	230	60	33.2	2 51 301 008	A
630	642	685		555	385	250	60	37.4	2 51 301 008	A
710	737	800		626	400	280	50	42.1	2 51 301 008	A
800	840	905		705	400	280	52	47.4	2 51 301 008	A
900	944	1005		793	400	260	55	53.3	2 51 301 008	A
1000	1047	1110		881	400	260	60	59.3	2 51 301 008	A

537987

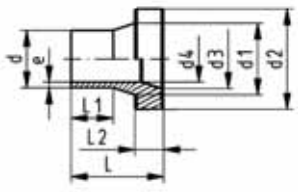
Adaptor for butterfly valves PE100 SDR11 Jointing face flat metric

Model:

- Conventional butt-welding according to DVS 2207 part 11
- Suitable for butterfly valves type 567/568 and 037/038/039

Note:

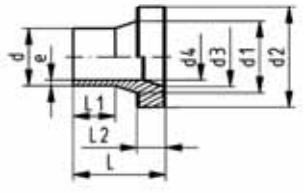
* available starting Q1 2013



d [mm]	DN [mm]	Code	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
* 315	300	**753 798 723**									
355	350	**753 798 724**	7.805	373	430	346	312	180	90	65	32.2
400	400	**753 798 725**	10.057	427	482	404	352	196	95	90	36.3
450	450	**753 798 726**	13.448	467	533	460	396	195	60	70	40.9
500	500	**753 798 727**	15.001	530	585	500	440	144	60	90	45.4
560	600	**753 798 728**	29.270	615	685	610	493	227	60	147	50.8
630	600	**753 798 729**	23.042	642	685	610	555	149	60	132	57.2
710	700	**753 798 730**	33.765	737	800	701	625	175	20	155	64.5
800	800	**753 798 731**	41.787	840	905	785	705	142	18	140	72.6

537987

Adaptor for butterfly valves PE100 SDR17/17.6
Jointing face flat metric



Model:

- Conventional butt-welding according to DVS 2207 part 1
- Suitable for butterfly valves type 567/568 and 037/038/039

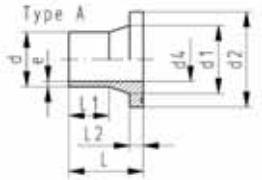
Note:

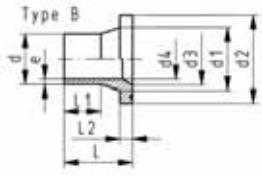
* available starting Q1 2013

d [mm]	DN [mm]	Code	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
* 315	300	**753 798 748**									-
355	350	**753 798 749**	6.479	373	430	346	312	180	90	65	21.1
400	400	**753 798 750**	8.426	427	482	404	352	196	95	69	23.7
450	450	**753 798 751**	9.570	467	533	460	396	195	60	90	26.7
500	500	**753 798 752**	8.263	530	585	500	440	144	60	90	29.7
560	600	**753 798 753**	17.307	615	685	610	493	227	60	92	33.2
630	600	**753 798 754**	12.122	642	685	610	555	149	60	71	37.4
710	700	**753 798 755**	21.505	737	800	701	625	175	20	105	42.1
800	800	**753 798 756**	21.841	840	905	785	705	142	18	74	47.4
900	900	**753 798 757**	34.187	947	1005	890	793	189	15	104	53.3
1000	1000	**753 798 758**	43.733	1047	1110	994	881	204	10	124	59.3
1200	1200	**753 798 759**	106.295	1256	1330	1860	1057	377	160	126	71.2

537988

Flange adaptor PE100 SDR11
Jointing face combination serrated/flat metric





Model:

- Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for butterfly valve type 567/568
  Above use PE100 Adaptor for butterfly valves SDR11 (d355-d800)
- Up to d280, suitable for butterfly valve type 037/038/039
  Above use PE100 Adaptor for butterfly valves SDR11 (d315-d800)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03

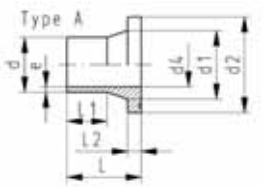
d [mm]	DN [mm]	Code	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
250	250	**753 798 826**	3.087	285	320	245	204	121	54	35	22,7	B
280	250	**753 798 827**	3.760	291	320	265	229	119	69	35	25,4	B
315	300	**753 798 828**	4.385	335	370	300	257	166	88	35	28,6	B
355	350	**753 798 829**	1.795	373	430	340	290	187	98	40	32,2	B
400	400	**753 798 830**	8.760	427	482	385	327	196	106	45	36,3	B
450	500	**753 798 831**	14.680	514	585	400	368	139	61	60	40.9	B
500	500	**753 798 832**	13.630	530	585	440	409	138	62	60	45.4	B
560	600	**753 798 833**	19.380	615	684	490	458	135	20	60	50,8	B
630	600	**753 798 834**	16.500	642	684	545	516	135	40	60	57,2	B
710	700	**753 798 835**	21.586	737	800		581	120	20	60	64,5	B
800	800	**753 798 836**	28.505	840	905		655	120	18	65	72,6	B

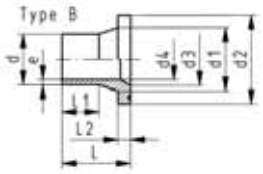
537988

Flange adaptor PE100 S8.3/SDR17.6
Jointing face combination serrated/flat metric

Type A

Type B





Model:

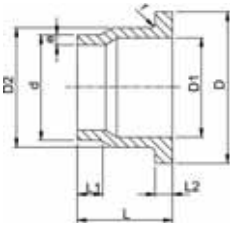
- Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for butterfly valve type 567/568
  Above use PE100 Adaptor for butterfly valves SDR17/17.6 (d355-d1200)
- Up to d280, suitable for butterfly valve type 037/038/039
  Above use PE100 Adaptor for butterfly valves SDR17/17.6 (d315-d1200)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03

d [mm]	DN [mm]	Code	kg
250	250	**753 798 851**	2.272
280	250	**753 798 852**	2.154
315	300	**753 798 853**	3.819
355	350	**753 798 854**	4.155
400	400	**753 798 855**	7.810
450	500	**753 798 856**	10.914
500	500	**753 798 857**	9.865
560	600	**753 798 858**	14.875
630	600	**753 798 859**	12.515
710	700	**753 798 860**	15.878
800	800	**753 798 861**	20.948
900	900	**753 798 862**	29.183
1000	1000	**753 798 863**	36.209

d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
250	250	285	320	245	220	121	61	25	14,8	B
280	250	291	320	265	246	119	69	25	16,6	B
315	300	335	370	300	277	164	86	25	18,7	B
355	350	373	430	340	312	180	100	30	21,1	B
400	400	427	482	385	352	197	110	33	23,7	B
450	500	514	585		396	141	64	46	26,7	B
500	500	530	585		440	141	67	46	29,7	B
560	600	615	685		493	142	60	50	33,2	B
630	600	642	685		555	144	71	50	37,4	B
710	700	737	800		626	120	20	50	42,1	A
800	800	840	905		705	120	18	52	47,4	A
900	900	944	1005		793	140	15	55	53,3	A
1000	1000	1047	1110		881	140	10	60	59,3	A

33 80 80

Outlet flange adaptor PE80 SDR11



Model:

- Conventional butt-welding according to DVS 2207 part 1
- Suitable for wafer check valves Type 369

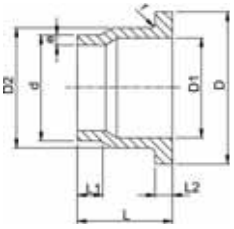
Attention:

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

d [mm]	DN [mm]	Code	kg	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	r [mm]
40	32	**733 808 034**	0.073	80	37	50	64	30	11	3,7	3
50	40	**733 808 035**	0.104	90	43	61	67	30	12	4,6	3
63	50	**733 808 036**	0.172	105	54	76	74	30	14	5,8	4
75	65	**733 808 037**	0.242	125	70	90	78	30	16	6,8	4
90	80	**733 808 038**	0.348	140	82	108	87	35	17	8,2	4
110	100	**733 808 039**	0.508	160	105	131	102	41	18	10,0	4
140	125	**733 808 041**	0.976	190	130	165	124	47	25	12,7	4
160	150	**733 808 042**	1.337	215	158	188	149	52	25	14,6	4
225	200	**733 808 045**	2.814	270	206	248	180	55	32	20,5	4
280	250	**733 808 047**	3.550	325	259	308	240	63	35	25,4	4
315	300	**733 808 048**	4.960	375	308	346	272	66	35	28,6	4

33 80 80

Outlet flange adaptor PE80 SDR17.6



Model:

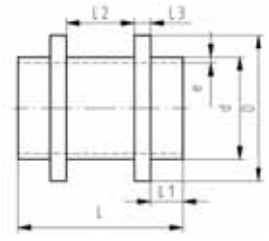
- Conventional butt-welding according to DVS 2207 part 11
- Suitable for wafer check valves Type 369

Attention:

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

d [mm]	DN [mm]	Code	kg	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	r [mm]
40	32	**733 808 009**	0.060	80	37	50	64	30	11	2,3	3
50	40	**733 808 010**	0.067	90	43	61	67	30	12	2,9	3
63	50	**733 808 011**	0.159	105	54	76	74	30	14	3,6	4
75	65	**733 808 012**	0.219	125	70	90	78	30	16	4,3	4
90	80	**733 808 013**	0.314	140	82	108	87	35	17	5,1	4
110	100	**733 808 014**	0.465	160	105	131	102	41	18	6,3	4
140	125	**733 808 016**	0.862	190	130	165	124	47	18	8,0	4
160	150	**733 808 017**	1.176	215	158	188	149	52	18	9,1	4
225	200	**733 808 020**	2.484	270	206	248	180	55	24	12,8	4
280	250	**733 808 022**	2.230	325	259	308	240	63	25	15,9	4
315	300	**733 808 023**	2.450	375	308	346	272	66	25	17,9	4

Fixed point fitting PE100 S5/SDR11



Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Machined

d [mm]	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
63	IR	**753 665 558**	0.182	90	122	30	42	10	5.8
75	IR	**753 665 559**	0.265	110	122	30	42	10	6.8
90	IR	**753 665 560**	0.357	125	122	30	42	10	8.2
110	IR	**753 665 561**	0.592	140	142	30	52	15	10.0
125	IR	**753 665 562**	0.811	160	152	35	52	15	11.4
140	IR	**753 665 563**	1.068	180	162	40	52	15	12.7
160	IR	**753 665 564**	1.349	200	162	40	52	15	14.6
180	IR	**753 665 565**	2.001	225	182	45	52	20	16.4
200	IR	**753 665 566**	2.469	250	182	45	52	20	18.2
225	IR	**753 665 567**	3.438	280	192	45	52	25	20.5
250	--	**753 665 568**	3.858	280	212	50	62	25	22.7
280	--	**753 665 569**	5.217	315	222	50	62	30	25.4
315	--	**753 665 570**	6.627	355	222	50	62	30	28.6
355	--	**753 665 571**	7.731	400	192	30	62	35	32.2

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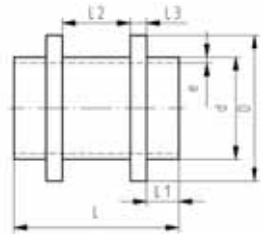
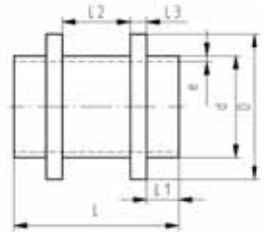


d [mm]	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
400	--	**753 665 572**	10.890	450	212	30	72	40	36.3
450	--	**753 665 573**	14.775	500	232	35	72	45	40.9
500	--	**753 665 574**	20.268	560	252	40	72	50	45.4
560	--	**753 665 575**	28.608	630	282	45	82	55	50.8
630	--	**753 665 576**	39.129	710	302	50	82	60	57.2

Fixed point fitting PE100 SDR17/17.6

Model:

- Conventional butt-welding according to DVS 2207 part 1
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PE100
- Machined



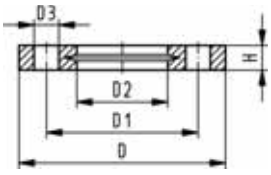
d [mm]	FM	Code	kg	D [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]
63	IR	**753 665 577**	0.144	90	122	30	42	10	3.8
75	IR	**753 665 578**	0.212	110	122	30	42	10	4.5
90	IR	**753 665 579**	0.279	125	122	30	42	10	5.4
110	IR	**753 665 580**	0.457	140	142	30	52	15	6.6
125	IR	**753 665 581**	0.618	160	152	35	52	15	7.4
140	IR	**753 665 582**	0.815	180	162	40	52	15	8.3
160	IR	**753 665 583**	1.014	200	162	40	52	15	9.5
180	IR	**753 665 584**	1.528	225	182	45	52	20	10.7
200	IR	**753 665 585**	1.887	250	182	45	52	20	11.9
225	IR	**753 665 586**	2.661	280	192	45	52	25	13.4
250	--	**753 665 587**	2.796	280	212	50	62	25	14.8
280	--	**753 665 588**	3.829	315	222	50	62	30	16.6
315	--	**753 665 589**	4.871	355	222	50	62	30	18.7
355	--	**753 665 590**	5.812	400	192	30	62	35	21.1
400	--	**753 665 591**	8.180	450	212	30	72	40	23.7
450	--	**753 665 592**	11.015	500	232	35	72	45	26.7
500	--	**753 665 593**	15.251	560	252	40	72	50	29.7
560	--	**753 665 594**	0.000	630	282	45	82	55	33.2
630	--	**753 665 595**	29.574	710	302	50	82	60	37.4

27 70 04
27 70 05

Backing flange PP-V
For butt fusion systems metric

Model:

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



* Combined version, metric-ANSI
AL: number of holes
[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)

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

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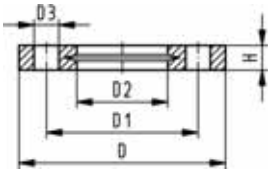
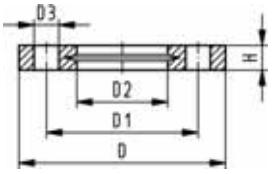


d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
315	300	16	**727 700 523**	2.400	445	400.0	338	22	42	12	M20
355	350	10	**727 700 524**	4.440	515	460.0	376	22	46	16	M20
400	400	10	**727 700 525**	5.624	574	515.0	430	26	50	16	M24

27 70 14
27 70 15

Backing flange PP-V
For butt fusion systems Inch ANSI



Model:

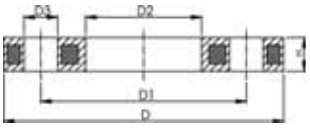
- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- UV-resistant. Applicable for outside applications
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes
* Combined version, metric-ANSI

Inch	DN [mm]	d [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1] ½	15	20	16	**727 701 406**	0.091	95	60.0	28	16	16	4	M12
[1] ¾	20	25	16	**727 701 407**	0.120	105	70.0	34	16	17	4	M12
[1] 1	25	32	16	**727 701 408**	0.147	115	79.0	42	16	18	4	M12
[1] 1 ¼	32	40	16	**727 701 409**	0.246	140	89.0	51	16	20	4	M16
[1] 1 ½	40	50	16	**727 701 410**	0.299	150	98.0	62	16	22	4	M16
[1] 2	50	63	16	**727 701 411**	0.361	165	121.0	78	19	24	4	M16
[1] 2 ½	65	75	16	**727 701 412**	0.492	185	140.0	92	19	26	4	M16
3	80	90	16	**727 701 513**	0.607	200	152.0	108	19	27	4	M16
4	100	110	16	**727 701 514**	0.736	229	190.0	128	19	28	8	M16
10	250	250	16	**727 701 521**	2.241	406	362.0	288	26	38	12	M20
10	250	280	16	**727 701 522**	2.173	406	362.0	294	26	38	12	M20
12	300	315	16	**727 701 523**	3.627	483	432.0	338	26	42	12	M20

27 70 02
27 70 03

Backing flange PP-Steel
For butt fusion systems metric



Model:

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

AL: number of holes

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20	15	16	**727 700 206**	0.216	95	65	28	14	12	4	M12
25	20	16	**727 700 207**	0.279	105	75	34	14	12	4	M12
32	25	16	**727 700 208**	0.429	115	85	42	14	16	4	M12
40	32	16	**727 700 209**	0.621	140	100	51	18	16	4	M16
50	40	16	**727 700 210**	0.722	150	110	62	18	20	4	M16
63	50	16	**727 700 211**	1.084	165	125	78	18	20	4	M16
75	65	16	**727 700 212**	1.349	185	145	92	18	20	4	M16
90	80	16	**727 700 313**	1.390	200	160	108	18	20	8	M16
110	100	16	**727 700 314**	1.407	220	180	128	18	20	8	M16
125	100	16	**727 700 315**	1.408	220	180	135	18	20	8	M16
140	125	16	**727 700 316**	2.318	250	210	158	18	24	8	M16
180	150	16	**727 700 318**	3.108	285	240	188	22	24	8	M20
200	200	16	**727 700 319**	5.600	340	295	235	22	27	8	M20
225	200	16	**727 700 320**	5.533	340	295	238	22	27	8	M20
250	250	16	**727 700 321**	6.632	395	350	288	22	30	12	M20
280	250	16	**727 700 322**	6.573	395	350	294	22	30	12	M20

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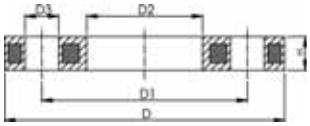
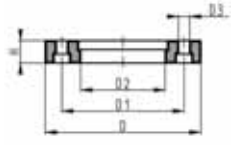


d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
315	300	16	**727 700 323**	7.903	445	400	338	22	34	12	M20
355	350	16	**727 700 324**	14.587	515	460	376	22	40	16	M20
400	400	16	**727 700 325**	20.034	574	515	430	26	40	16	M24

24 70 04

Profiled backing flange PP/Steel
For butt fusion systems metric



Model:

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

Note:

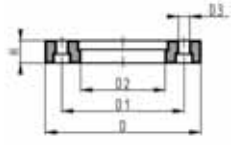
flat side = bolt side
profiled side = flange adaptor side

AL: number of holes
* Galvanized steel, suitable for underground laying

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

24 70 03

Profiled backing flange PP-Steel
For butt fusion systems metric



Model:

- PP with glass-fibre reinforcement and GGG 50 insert
- UV-resistant. Applicable for outside applications
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 16**

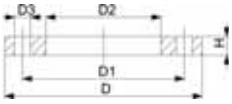
Note:

flat side = bolt side
profiled side = flange adaptor side

AL: number of holes

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
200	200	16	**724 700 319**	3.549	344	295	235	22	28	12	M20
225	200	16	**724 700 320**	3.380	344	295	238	22	28	12	M20
250	250	16	**724 700 321**	6.390	410	355	288	26	33	12	M24
280	250	16	**724 700 322**	6.310	410	355	294	26	33	12	M24
315	300	16	**724 700 323**	9.740	455	410	338	26	40	12	M24
355	350	16	**724 700 324**	15.203	521	470	376	26	50	16	M24
400	400	16	**724 700 325**	20.600	582	525	430	30	54	16	M27

01 48 04



Backing flange steel
For butt fusion systems metric

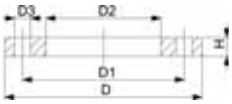
Model:

- Galvanized steel, suitable for underground laying
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 16**

AL: number of holes

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
32	25	16	**701 474 390**	0.830	115	85	42	14	12	4	M12
40	32	16	**701 474 391**	1.430	140	100	51	18	14	4	M16
50	40	16	**701 474 392**	1.530	150	110	62	18	14	4	M16
63	50	16	**701 474 393**	1.840	165	125	78	18	16	4	M16
75	65	16	**701 474 394**	2.150	185	145	92	18	16	8	M16
90	80	16	**701 474 395**	2.830	200	160	108	18	18	8	M16
110	100	16	**701 474 396**	3.300	220	180	128	18	18	8	M16
125	100	16	**701 474 397**	3.170	220	180	135	18	18	8	M16
125	125	16	**701 474 386**	3.500	250	210	135	18	25	8	M16
140	125	16	**701 474 387**	4.100	250	210	158	18	18	8	M16
160	150	16	**701 474 382**	5.440	285	240	178	22	20	8	M20
180	150	16	**701 474 398**	5.180	285	240	188	22	20	8	M20
200	200	16	**701 480 475**	8.000	340	295	235	22	24	12	M20
225	200	16	**701 480 476**	7.810	340	295	238	22	24	12	M20
250	250	16	**701 480 477**	8.120	405	355	288	26	30	12	M24
280	250	16	**701 480 478**	8.320	405	355	294	26	30	12	M24
315	300	16	**701 480 479**	9.850	460	410	338	26	34	12	M24
355	350	16	**701 480 480**	10.500	520	470	376	26	35	16	M24
400	400	16	**701 480 481**	24.400	580	525	430	30	38	16	M27
450	500	16	**701 480 482**	37.000	715	650	517	33	46	20	M30
500	500	16	**701 480 483**	32.000	715	650	533	33	46	20	M30

01 47 43



Backing flange steel
For butt fusion systems metric

Model:

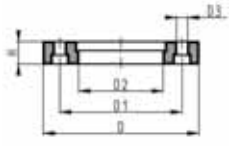
- Galvanized steel, suitable for underground laying
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

* Profiled version

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
200	200	10	**701 474 383**	6.630	340	295	235	22	20	8	M20
225	200	10	**701 474 388**	6.580	340	295	238	22	20	8	M20
250	250	10	**701 474 399**	9.090	395	350	288	22	22	12	M20
280	250	10	**701 474 400**	8.700	395	350	294	22	22	12	M20
315	300	10	**701 474 401**	12.500	445	400	338	22	26	12	M20
355	350	10	**701 480 489**	18.300	505	460	376	22	28	16	M20
400	400	10	**701 480 490**	24.400	565	515	430	26	32	16	M24
450	500	10	**701 480 491**	37.000	670	620	517	26	38	20	M24
500	500	10	**701 480 492**	32.000	670	620	533	26	38	20	M24
560	600	10	**701 480 493**	56.300	780	725	618	30	42	20	M27
630	600	10	**701 480 494**	47.200	780	725	645	30	42	20	M27

24 70 51



Profiled backing flange steel
For butt fusion systems metric

Model:

- Ductile iron (GGG40), epoxy coated (black)
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

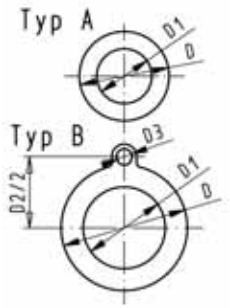
Note:

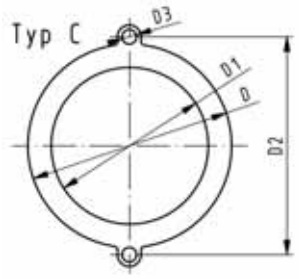
flat side = bolt side
profiled side = flange adaptor side

AL: number of holes
* Galvanized steel, suitable for underground laying

d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
* 450	450	10	**724 705 026**	22.600	615	565	470	26	44	20	M24
710	700	6	**724 705 130**	36.400	900	840	740	30	45	24	M27
800	800	6	**724 705 131**	50.500	1015	950	843	33	53	24	M30
900	900	6	**724 705 132**	55.800	1115	1050	947	33	56	28	M30
1000	1000	6	**724 705 133**	71.100	1230	1160	1050	36	62	28	M33
1200	1200	4	**724 705 134**	101.000	1455	1380	1260	39	68	32	M36

EPDM 48 40 03





Flat gasket

Model:

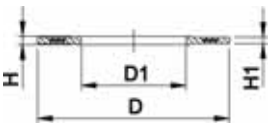
- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flange adaptors

d [mm]	DN [mm]	PN	Type	EPDM Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	di FA [mm]
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
40	32	10	A	**748 400 309**	0.013	82	40			3	30 - 50
50	40	10	A	**748 400 310**	0.016	92	50			3	40 - 60
63	50	10	A	**748 400 311**	0.018	107	63			3	53 - 73
75	65	10	A	**748 400 312**	0.029	127	71			3	61 - 81
90	80	10	A	**748 400 313**	0.035	142	84			3	74 - 94
110	100	10	B	**748 400 314**	0.051	162	104	180	18	4	94 - 114
125	100	10	B	**748 400 315**	0.044	162	119	180	18	4	109 - 129
140	125	10	B	**748 400 316**	0.068	192	134	210	18	4	124 - 144
160 / 180	150	10	B	**748 400 317**	0.090	218	155	241	22	4	145 - 165
200	200	6	C	**748 400 319**	0.210	273	195	295	22	5	185 - 205
225	200	6	C	**748 400 320**	0.140	273	216	295	22	5	206 - 226
250	250	6	C	**748 400 321**	0.210	328	250	350	22	5	240 - 260
280	250	6	C	**748 400 322**	0.151	328	273	350	22	5	263 - 283
315	300	6	C	**748 400 323**	0.237	378	305	400	22	5	295 - 315

EPDM 48 44 07
FPM 49 44 07

Profile flange gasket metric



Model:

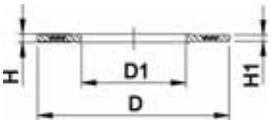
- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**
- **EPDM:** approved acc. to DVGW W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel

di FA are the suitable inner diameters of flange adaptors

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

45 44 07

Profile flange gasket metric



Model:

- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- material steel insert: carbon steel
- NBR/DUO = Nitrile rubber, hardness approx. 80° Shore
- Suitable for drinking water and gas applications
- Approved acc. to DVGW standard DIN EN 682
- Approved acc. to DVGW W 270, KTW recommendation
- d corresponds to the centring at the inner diameter of the screw crown

di FA are the suitable inner diameters of flange adaptors

d [mm]	DN [mm]	PN	NBR/DUO Code	kg	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
20	15	16	**745 440 706**	0.009	51	20	4	3	10 - 20
25	20	16	**745 440 707**	0.012	61	22	4	3	12 - 22
32	25	16	**745 440 708**	0.018	71	28	4	3	18 - 28
40	32	16	**745 440 709**	0.021	82	40	4	3	30 - 40
50	40	16	**745 440 710**	0.029	92	46	4	3	36 - 46
63	50	16	**745 440 711**	0.039	107	58	5	4	48 - 58
75	65	16	**745 440 712**	0.058	127	69	5	4	59 - 69
90	80	16	**745 440 713**	0.061	142	84	5	4	73 - 84
110	100	16	**745 440 714**	0.096	162	104	6	5	94 - 104
125	100	16	**745 440 715**	0.073	162	123	6	5	113 - 123
140	125	16	**745 440 716**	0.127	192	137	6	5	127 - 137
160 / 180	150	16	**745 440 717**	0.145	218	160	8	6	150 - 160
200	200	16	**745 440 719**	0.295	273	203	8	6	192 - 203
225	200	16	**745 440 720**	0.183	273	220	8	6	207 - 220
250	250	16	**745 440 721**	0.355	328	252	8	6	238 - 252

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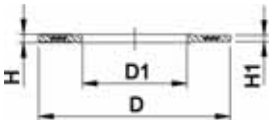


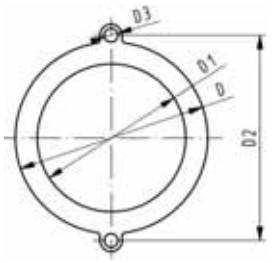
d [mm]	DN [mm]	PN	NBR/DUO Code	kg	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]
280	250	16	**745 440 722**	0.229	328	274	8	6	264 - 274
315	300	16	**745 440 723**	0.419	378	306	8	6	296 - 306
355	350	16	**745 440 724**	0.645	438	355	10	7	340 - 355
400	400	16	**745 440 725**	0.819	489	400	10	7	385 - 400
450	500	16	**745 440 726**	1.885	594	403	10	7	393 - 403
500	500	16	**745 440 727**	1.618	594	447	10	7	437 - 447
560	600	16	**745 440 728**	2.281	695	494	10	7	484 - 494
630	600	16	**745 440 729**	2.000	695	555	10	7	545 - 555

48 40 03

Flat gasket for flange adaptor

Model:

- Hardness : EPDM ca. 70° Shore
- Flange bolt circle: PN10
- Integrated fixation aids
- Centering on the inner diameter of the screw crown

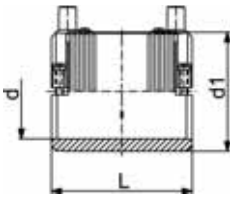


d [mm]	DN [mm]	PN* [bar]	EPDM Code	kg	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]
710	700	6	**748 400 330**	0.900	810	625	840	30	5
800	800	6	**748 400 331**	1.000	917	705	950	33	5
900	900	6	**748 400 332**	1.200	1014	805	1050	36	5
1000	1000	6	**748 400 333**	1.400	1121	890	1160	39	5

Electrofusion Fittings

53 91 16

Coupler
With integral pipe fixation

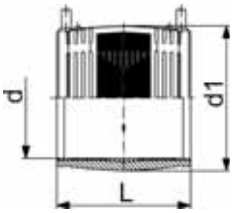


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop

d [mm]	Code	kg	d1 [mm]	L [mm]
20	**753 911 606**	0.053	31	70
25	**753 911 607**	0.050	36	70
32	**753 911 608**	0.071	44	72
40	**753 911 609**	0.095	54	80
50	**753 911 610**	0.131	66	88
63	**753 911 611**	0.194	81	96

53 91 16

Coupler

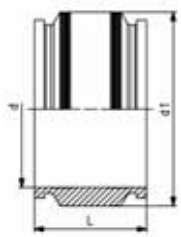


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop up to d160

d [mm]	Code	kg	d1 [mm]	L [mm]
75	**753 911 612**	0.282	96	110
90	**753 911 613**	0.406	113	125
110	**753 911 614**	0.692	138	145
125	**753 911 615**	0.718	154	156
140	**753 911 616**	0.945	172	166
160	**753 911 617**	1.362	196	180
180	**753 911 618**	1.747	219	192
200	**753 911 619**	1.866	244	208
225	**753 911 620**	3.329	273	225
250	**753 911 621**	4.678	304	248
280	**753 911 622**	5.647	340	252
315	**753 911 623**	8.142	382	267
355	**753 911 624**	13.098	432	290
400	**753 911 625**	18.320	487	290

53 91 16

Coupler



- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Only for water applications
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]
450	**753 911 646**	20.675	559	320
500	**753 911 647**	28.403	621	360
560	**753 911 648**	39.503	694	390
630	**753 911 649**	55.641	780	430

53 91 16

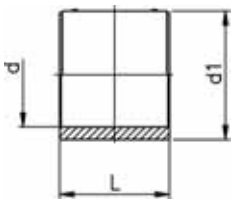
Coupler

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Only for water applications
- 4 mm pin connectors

d [mm]	Code	kg	d1 [mm]	L [mm]
710	**753 911 650**	72.450	878	475
800	**753 911 651**	102.490	988	520
900	**753 911 652**	137.930	1110	550

53 91 18

Coupler



- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- d160 with removable centre stop

d [mm]	Code	kg	d1 [mm]	L [mm]
160	**753 911 817**	1.017	186	180
180	**753 911 818**	1.434	213	192
200	**753 911 819**	1.726	233	206
225	**753 911 820**	2.545	261	225
250	**753 911 821**	4.616	304	248
280	**753 911 822**	5.606	304	252
315	**753 911 823**	8.186	382	267
355	**753 911 824**	9.522	414	290
400	**753 911 825**	18.000	487	290
450	**753 911 826**	16.000	522	313
500	**753 911 827**	22.000	579	343

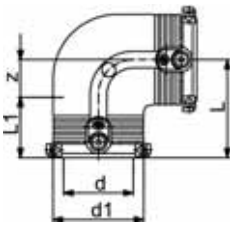
53 91 18

Coupler

- **PE 100 SDR 17** (ISO S8)
- 10 bar water
- Only for water applications
- 4 mm pin connectors

d [mm]	Code	kg	d1 [mm]	L [mm]
710	**753 911 850**	49.370	814	475
800	**753 911 851**	69.180	916	520
900	**753 911 852**	93.150	1030	550
1000	**753 911 853**	125.650	1143	600
1200	**753 911 854**	196.450	1370	650

53 10 16

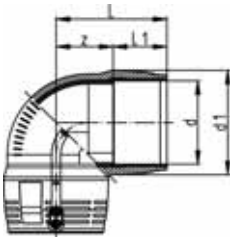


Elbow 90°
With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]
20	**753 101 606**	0.080	35	54	34	20
25	**753 101 607**	0.068	35	54	34	20
32	**753 101 608**	0.098	44	53	36	17
40	**753 101 609**	0.141	54	62	39	23
50	**753 101 610**	0.200	66	71	43	28
63	**753 101 611**	0.318	81	81	48	32

53 10 18

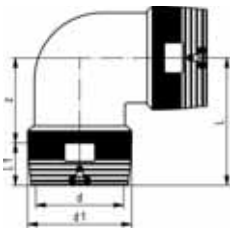


Elbow 90°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]
75	**753 101 612**	0.415	97	94	54	40
90	**753 101 813**	0.828	115	122	62	60
110	**753 101 814**	1.224	140	147	72	76
125	**753 101 815**	1.742	160	142	74	68
160	**753 101 817**	3.830	196	178	92	86
180	**753 101 818**	5.410	219	195	95	100

53 10 18

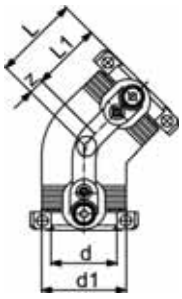


Elbow 90°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]
200	**753 101 819**	9.320	250	298	104	194
225	**753 101 820**	13.220	280	318	112	206
250	**753 101 821**	16.600	310	347	123	224

53 15 16



Elbow 45°
With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]
40	**753 151 609**	0.106	54	50	39	11
50	**753 151 610**	0.171	66	56	43	13
63	**753 151 611**	0.252	81	63	48	15

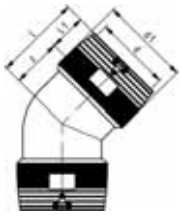
53 15 18

Elbow 45°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]
90	**753 151 813**	0.583	115	91	62	29
110	**753 151 814**	0.985	140	112	72	40
125	**753 151 815**	1.438	160	127	78	49
160	**753 151 817**	3.055	196	134	92	42
180	**753 151 818**	4.037	217	142	95	47

53 15 18

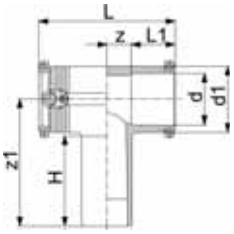


Elbow 45°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]
200	**753 151 819**	7.566	250	232	104	128
225	**753 151 820**	11.300	280	247	112	135
250	**753 151 821**	13.500	310	275	123	152

53 21 16



Tee 90°, equal with Integral Clamp

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
20	**753 211 606**	0.085	35	88	32	11	92	67
25	**753 211 607**	0.075	35	90	32	11	92	70
32	**753 211 608**	0.118	44	102	34	15	100	74
40	**753 211 609**	0.175	54	119	39	21	114	82
50	**753 211 610**	0.252	66	135	42	24	126	90
63	**753 211 611**	0.407	81	151	46	28	150	102

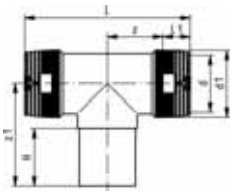
53 20 18

Tee 90° equal

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
75	**753 211 612**	0.569	97	178	54	35	143	87
90	**753 201 813**	0.891	115	205	62	41	161	94
110	**753 201 814**	1.576	140	255	72	56	184	104
125	**753 201 815**	2.212	161	276	78	60	207	113
160	**753 201 817**	4.386	196	325	92	71	206	103
180	**753 201 818**	6.796	225	344	90	82	250	110

53 20 18



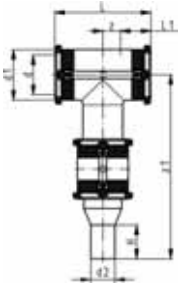
Tee 90°, equal

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
200	**753 201 819**	10.800	250	590	104	191.0	250	117
225	**753 201 820**	15.900	280	636	112	206.0	270	122
250	**753 201 821**	18.900	310	685	123	219.5	288	127

93 28 10

Tee 90°, reduced (Kit)

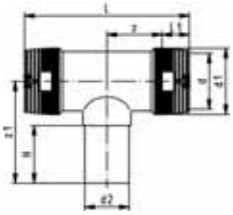


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler and Spigot Reducer

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
40	20	**193 281 004**	0.314	54	120	39	21	244	212
40	25	**193 281 005**	0.319	54	120	39	21	244	212
75	40	**193 280 998**	1.060	97	187	61	33	296	248
90	50	**193 280 999**	1.655	112	202	61	41	336	274
110	63	**193 280 961**	2.812	136	242	65	56	366	293
125	63	**193 280 963**	3.673	151	256	75	53	361	279
125	110	**193 280 965**	3.920	151	256	75	53	389	307
180	90	**193 281 032**	10.891	225	344	90	82	487	347
180	110	**193 281 033**	10.465	225	344	90	82	495	355

53 21 10

Tee 90°, reduced

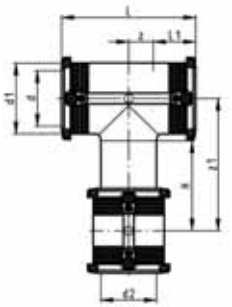


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
160	63	**753 211 037**	5.660	200	433	90	126.5	176	65
160	90	**753 211 039**	5.508	200	496	90	158.0	188	79
160	110	**753 211 040**	5.157	200	496	90	158.0	195	85
200	90	**753 211 059**	9.012	250	596	104	194.0	215	81
200	110	**753 211 060**	12.400	250	596	104	194.0	218	84
200	160	**753 211 063**	12.400	250	596	104	194.0	236	101
225	90	**753 211 069**	13.100	280	658	112	217.0	226	80
225	110	**753 211 070**	13.100	280	658	112	217.0	235	85
225	160	**753 211 073**	13.600	280	658	112	217.0	255	105
250	110	**753 211 080**	11.660	310	685	123	219.5	245	85
250	160	**753 211 083**	11.660	310	685	123	219.5	264	101

53 20 16

Tee 90° with weldable outlet (Kit)



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler or ELGEF® Plus Reducer

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
20	20	**753 201 606**	0.161	35	90	34	11	92	67
25	25	**753 201 607**	0.122	35	90	34	11	92	70
32	32	**753 201 608**	0.201	44	102	36	15	100	74
40	32	**193 281 006**	0.288	54	120	39	21	127	95
40	40	**753 201 609**	0.285	54	120	39	21	114	82
50	32	**193 281 007**	0.364	66	135	43	24	144	108
50	40	**193 281 008**	0.407	66	135	43	24	140	104
50	50	**753 201 610**	0.389	66	135	43	24	126	90
63	32	**193 280 997**	0.550	81	152	48	28	173	125
63	40	**193 281 009**	0.566	81	152	48	28	169	121
63	50	**193 281 010**	0.628	81	152	48	28	165	117
63	63	**753 201 611**	0.615	81	152	48	28	150	102
90	63	**193 281 011**	1.311	112	202	61	41	182	120
90	90	**753 201 613**	1.342	112	202	61	41	146	84
110	90	**193 281 012**	2.343	136	242	65	56	200	127
110	110	**753 201 614**	2.329	136	242	65	56	161	88

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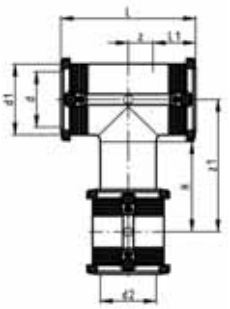
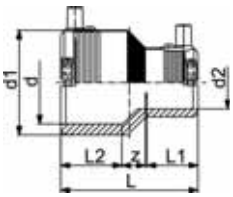


d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]
125	90	**193 281 013**	3.146	151	256	75	53	214	132
125	125	**753 201 615**	2.960	151	256	75	53	174	92
160	110	**193 281 030**	7.443	196	325	92	71	271	168
160	160	**753 201 617**	6.359	196	325	92	71	206	103
180	125	**193 281 031**	9.654	225	344	90	82	330	190
180	180	**753 201 618**	8.561	225	344	90	82	250	110

53 90 16

Reducer with Integral Clamp

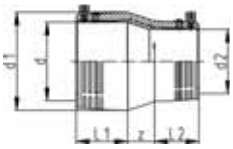


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
25	20	**753 901 639**	0.051	35	74	34	34	6
32	20	**753 901 640**	0.056	44	79	33	36	10
32	25	**753 901 641**	0.062	44	79	33	36	10
40	20	**753 901 644**	0.069	54	88	33	39	15
40	25	**753 901 645**	0.084	54	88	33	39	15
40	32	**753 901 646**	0.095	54	88	33	39	13
50	32	**753 901 651**	0.124	66	96	35	43	18
50	40	**753 901 652**	0.119	66	96	39	43	14
63	32	**753 901 656**	0.158	81	105	35	48	23
63	40	**753 901 657**	0.176	81	105	39	48	19
63	50	**753 901 658**	0.176	81	105	43	48	15

53 90 18

Reducer

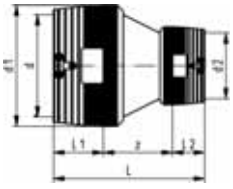


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
90	63	**753 901 831**	0.385	113	146	63	47	36
110	90	**753 901 833**	0.700	138	173	73	63	38
125	90	**753 901 836**	0.891	152	180	79	61	40
160	110	**753 901 834**	1.641	196	226	91	70	65
180	125	**753 901 835**	1.962	220	247	97	70	80

53 90 18

Reducer

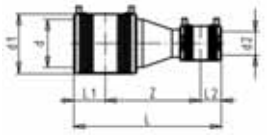


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
200	160	**753 901 837**	5.098	250	365	104	90	171
225	160	**753 901 838**	6.000	280	385	112	90	183
250	160	**753 901 840**	7.860	310	400	123	90	187
250	200	**753 901 841**	8.480	310	427	123	104	200

93 28 09

Reducer (Kit)

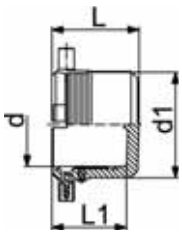


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF® Plus Coupler and Spigot Reducer

d [mm]	d2 [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]
75	40	**193 280 992**	0.574	96	265	55	40	170
75	50	**193 280 993**	0.623	96	269	55	44	170
75	63	**193 280 994**	0.700	96	273	55	48	170
90	50	**193 280 958**	0.857	113	297	63	44	190
90	75	**193 280 995**	1.071	113	308	63	55	190
110	63	**193 280 950**	1.389	138	326	73	48	205
110	75	**193 280 996**	1.496	138	333	73	55	205
125	63	**193 280 953**	1.567	154	314	79	48	187
125	110	**193 280 951**	2.098	154	367	79	73	215
160	90	**193 280 954**	3.060	196	370	90	63	217
160	125	**193 280 952**	3.252	196	414	90	79	245
180	110	**193 280 959**	4.167	214	413	95	73	245

53 96 16

End Cap with integral pipe fixation

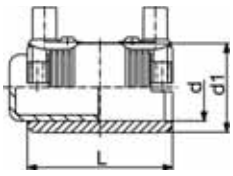


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]
20	**753 961 606**	0.041	35	52	44
25	**753 961 607**	0.046	35	52	44
32	**753 961 608**	0.058	44	52	44
40	**753 961 609**	0.064	54	56	47
50	**753 961 610**	0.154	66	60	49
63	**753 961 611**	0.142	81	66	54

53 96 17

End cap (Kit)

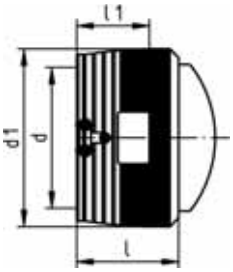


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler

d [mm]	Code	kg	d1 [mm]	L [mm]
75	**753 961 712**	0.446	96	110
90	**753 961 713**	0.663	113	125
110	**753 961 714**	1.090	133	145
125	**753 961 715**	1.345	155	158
140	**753 961 716**	2.250	175	170
160	**753 961 717**	2.382	197	180
180	**753 961 718**	3.098	220	194
200	**753 961 719**	4.180	245	208
225	**753 961 720**	5.852	296	224

53 96 16

End Cap

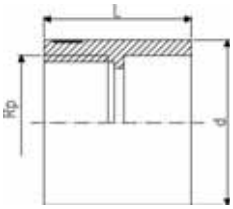


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	kg	d1 [mm]	L [mm]	L1 [mm]
160	**753 961 617**	1.782	200	143	90
200	**753 961 619**	3.585	250	162	104
225	**753 961 620**	4.500	280	170	112
250	**753 961 621**	6.300	310	185	123

73 28 19

PE Adaptor
Female thread

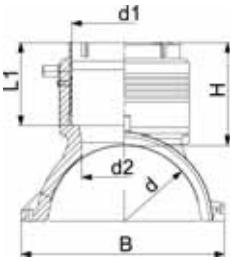


- **PE 80 SDR 11** (ISO S5)
- 5 bar Gas / 12,5 bar Water
- Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF Plus Branch Saddle (53 131 000) d63 - 400mm, pipe SDR 11, d75 - 400mm, pipe SDR 17
- Parallel female thread
- *PE 100 SDR 11 (ISO S5)

d [mm]	Rp [inch]	Code	kg	L [mm]
63	1 ½	**173 281 925**	0.088	54

51 336 001

Branch saddle
outlet 90 - 125 mm



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators
- * Delivered without lower part. Pipe fixation with multiple use assembly tool no. 193 281 027

d [mm]	d1 [mm]	Code	kg	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
110	90	**193 135 009**	1.124	101	220	82	164	65
110	110	**193 135 010**	1.224	107	220	88	164	65
125	90	**193 135 019**	1.134	101	220	82	179	65
125	110	**193 135 020**	1.290	107	220	88	179	65
* 140	90	**193 135 029**	0.982	101	220	81	195	65
* 140	110	**193 135 030**	1.087	107	220	87	195	65
160	90	**193 135 039**	1.449	102	240	82	215	65
160	110	**193 135 040**	1.582	108	240	88	215	86
160	125	**193 135 041**	1.782	129	240	99	215	86

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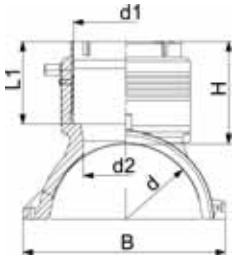
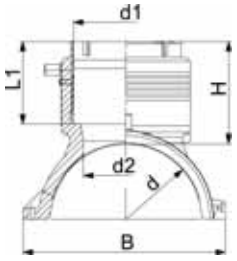


d [mm]	d1 [mm]	Code	kg	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
180	90	**193 135 049**	1.672	102	260	82	237	65
180	110	**193 135 050**	1.765	108	260	88	237	86
180	125	**193 135 051**	2.015	129	260	99	237	86
200	90	**193 135 059**	1.803	102	260	82	253	65
200	110	**193 135 060**	1.963	108	260	88	253	86
200	125	**193 135 061**	2.128	129	260	99	253	86
225	90	**193 135 069**	2.006	102	260	82	287	65
225	110	**193 135 070**	2.040	108	260	88	287	86
225	125	**193 135 071**	2.312	129	260	99	287	86
250	90	**193 135 079**	2.145	102	260	82	312	65
250	110	**193 135 080**	2.258	108	260	88	312	86
250	125	**193 135 081**	2.500	129	260	99	312	86

51 336 001

Branch saddle topload outlet 90 - 125 mm

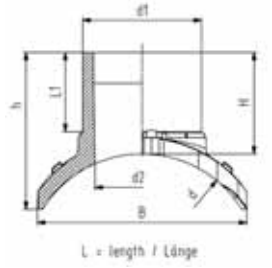


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle for assembling as Toploadwith tool 799.350.477; angle adaptors (799.350.340) for fusion cable required
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d1 [mm]	Code	kg	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
280	90	**193 135 289**	1.242	102	260	82	243	65
280	110	**193 135 290**	1.295	108	260	88	243	86
280	125	**193 135 291**	1.530	129	260	99	243	86
315 - 355	90	**193 135 309**	1.214	102	260	82	249	65
315 - 355	110	**193 135 310**	1.297	108	260	88	249	86
315 - 355	125	**193 135 311**	1.530	129	260	99	249	86
400 - 450	90	**193 135 329**	1.039	102	260	82	256	65
400 - 450	110	**193 135 330**	1.116	108	260	88	256	86
400 - 450	125	**193 135 331**	1.369	129	260	99	256	86
500 - 630	90	**193 135 159**	1.086	102	260	82	263	65
500 - 630	110	**193 135 160**	1.159	108	260	88	263	86
500 - 630	125	**193 135 161**	1.388	129	260	99	263	86

51 336 001

Branch saddle topload outlet 160 - 225 mm



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle installation only with installation set Topload TL225 (799.300.807); angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Limited path fusion indicators
- Protected wire without medium contact
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor

d [mm]	d1 [mm]	Code	kg	h [mm]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
315	160	**193 135 402**	2.662	212	137	322	110	282	131
315	225	**193 135 404**	4.594	306	160	366	127	260	184
355	160	**193 135 412**	2.662	206	137	322	110	282	131
355	225	**193 135 414**	4.710	319	160	366	127	249	184
400	160	**193 135 422**	2.678	198	137	322	110	300	131
400	225	**193 135 424**	4.700	329	160	366	127	241	184
450	160	**193 135 432**	2.678	194	137	322	110	300	131
450	225	**193 135 434**	4.700	329	160	366	127	233	184
500	160	**193 135 442**	2.708	186	137	322	110	310	131
500	225	**193 135 444**	4.650	344	160	366	127	226	184
560	160	**193 135 452**	2.708	183	137	322	110	310	131

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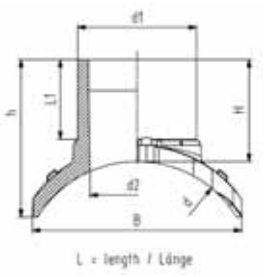
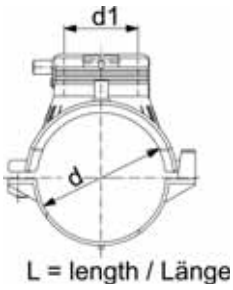


d [mm]	d1 [mm]	Code	kg	h [mm]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
560	225	**193 135 454**	4.650	344	160	366	127	220	184
630	160	**193 135 462**	2.500	177	137	322	110	312	131
630	225	**193 135 464**	4.630	353	160	366	127	214	184
710	160	**193 135 472**	2.500	172	137	322	110	312	131
710	225	**193 135 474**	4.630	352	160	366	127	208	184
800	160	**193 135 482**	2.500	168	137	322	110	312	131
800	225	**193 135 484**	4.610	359	160	366	127	203	184
900	225	**193 135 494**	4.610	359	160	366	127	199	184
1000	225	**193 135 504**	4.610	359	160	366	127	195	184

53 131 000

Electrofusion saddle



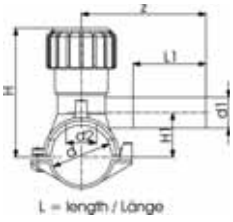
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- ***Complete with moulded-on lower part
- 4 mm pin connectors
- Limited path fusion indicators

*not suitable for all tapping-tees, tapping-valves and spigots with cutter of the modular systems
** = not suitable for all tapping-tees, tapping-valves and spigots with cutter of the modular systems / delivery without lower part for assembling as Top load with tool 799.350.475

d [mm]	d1 [mm]	Code	kg	L [mm]
63	63	**193 131 037**	0.325	165
75	63	**193 131 047**	0.455	165
90	63	**193 131 057**	0.412	165
110	63	**193 131 067**	0.458	165
125	63	**193 131 077**	0.502	165
140	63	**193 131 087**	0.523	165
160	63	**193 131 097**	0.493	165
180	63	**193 131 107**	0.600	165
200	63	**193 131 117**	0.634	165
225	63	**193 131 127**	0.618	165
* 250	63	**193 131 137**	0.627	165
** 280	63	**193 131 147**	0.359	165
** 315 - 355	63	**193 131 157**	0.373	165

53 131 400

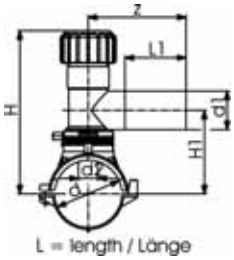
Tapping Saddle Monobloc version



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap

d [mm]	d1 [mm]	Code	kg	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
40	20	**193 131 412**	0.225	16	99	33	103	70	102
40	25	**193 131 413**	0.226	16	99	33	103	70	102
40	32	**193 131 414**	0.225	16	99	33	103	70	120
50	20	**193 131 422**	0.214	16	104	38	103	70	102
50	25	**193 131 423**	0.212	16	104	38	103	70	102
50	32	**193 131 424**	0.228	16	104	38	103	70	120
63	20	**193 131 432**	0.428	25	134	44	126	70	115
63	25	**193 131 433**	0.431	25	134	44	126	70	115
63	32	**193 131 434**	0.425	25	134	44	126	70	130

53 131 400



Tapping Saddle with 360° rotatable outlet

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap
- d315-400mm: restricted application for pipes d355 and d400mm. Not suitable for pipes if wall thickness is larger than SDR17 pipes.
- *moulded-on lower clamp
- **Delivery without lower part for assembling as Top Load with tool no. 799.350.477; angle adaptor (799.350.340) for fusion cable required

d [mm]	d1 [mm]	Code	kg	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
63	20	**193 131 402**	0.697	32	186	108	165	71	130
63	25	**193 131 403**	0.637	32	186	108	165	71	130
63	32	**193 131 404**	0.701	32	186	108	165	76	130
63	40	**193 131 405**	0.718	32	186	108	165	81	137
63	63	**193 131 437**	1.426	32	134	112	165	100	160
75	20	**193 131 442**	0.831	32	191	113	165	71	130
75	25	**193 131 443**	0.830	32	191	113	165	71	130
75	32	**193 131 444**	0.812	32	191	113	165	76	130
75	40	**193 131 445**	0.849	32	191	113	165	81	137
75	63	**193 131 447**	1.565	32	240	118	165	100	160
90	20	**193 131 452**	0.793	32	199	121	165	71	130
90	25	**193 131 453**	0.790	32	199	121	165	71	130
90	32	**193 131 454**	0.770	32	199	121	165	76	130
90	40	**193 131 455**	0.811	32	199	121	165	81	137
90	63	**193 131 457**	1.494	32	248	126	165	100	160
* 110	20	**193 131 462**	0.826	32	209	131	165	71	130
* 110	25	**193 131 463**	0.808	32	209	131	165	71	130
* 110	32	**193 131 464**	0.831	32	209	131	165	76	130
* 110	40	**193 131 465**	0.805	32	209	131	165	81	137
* 110	63	**193 131 467**	1.097	35	258	136	165	100	160
125	20	**193 131 472**	0.880	32	216	138	165	71	130
125	25	**193 131 473**	0.878	32	216	138	165	71	130
125	32	**193 131 474**	0.878	32	216	138	165	76	130
125	40	**193 131 475**	0.874	32	216	138	165	81	137
125	63	**193 131 477**	1.184	35	265	143	165	100	160
140	20	**193 131 482**	0.887	32	233	146	165	71	130
140	25	**193 131 483**	0.874	32	233	146	165	71	130
140	32	**193 131 484**	0.894	32	233	146	165	76	130
140	40	**193 131 485**	0.920	32	233	146	165	81	137
140	63	**193 131 487**	1.180	35	273	151	165	100	160
* 160	20	**193 131 492**	0.916	32	243	156	165	71	130
* 160	25	**193 131 493**	0.912	32	243	156	165	71	130
* 160	32	**193 131 494**	0.915	32	243	156	165	76	130
* 160	40	**193 131 495**	0.936	32	243	156	165	81	137
* 160	63	**193 131 497**	1.221	35	283	161	165	100	160
180	20	**193 131 502**	0.994	32	244	166	165	71	130
180	25	**193 131 503**	1.001	32	244	166	165	71	130
180	32	**193 131 504**	0.957	32	244	166	165	76	130
180	40	**193 131 505**	1.007	32	244	166	165	81	137
180	63	**193 131 507**	1.587	35	293	171	165	100	160
200	20	**193 131 512**	1.015	32	254	176	165	71	137
200	25	**193 131 513**	1.015	32	254	176	165	71	130
200	32	**193 131 514**	0.985	32	254	176	165	76	130
200	40	**193 131 515**	1.024	32	254	176	165	81	137
200	63	**193 131 517**	1.745	35	303	181	165	100	160
225	20	**193 131 522**	1.016	32	266	188	165	71	130
225	25	**193 131 523**	1.025	32	266	188	165	71	130
225	32	**193 131 524**	1.019	32	266	188	165	76	130
225	40	**193 131 525**	1.029	32	266	188	165	81	137

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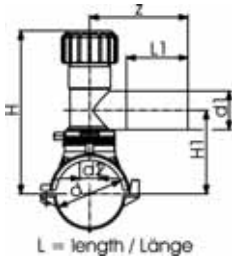
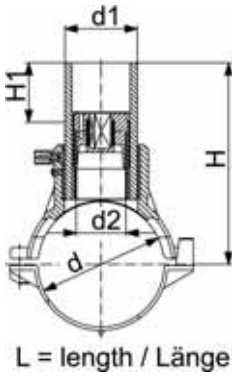


d [mm]	d1 [mm]	Code	kg	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
225	63	**193 131 527**	1.738	35	315	193	165	100	160
250	20	**193 131 532**	1.025	32	279	201	165	76	130
250	25	**193 131 533**	1.026	32	279	201	165	76	130
250	32	**193 131 534**	0.996	32	279	201	165	76	130
250	40	**193 131 535**	1.008	32	279	201	165	81	137
250	63	**193 131 537**	1.733	35	328	206	165	100	160
** 280	63	**193 131 547**	1.478	35	328	206	165	100	160
** 315-355	63	**193 131 557**	1.481	35	328	206	165	100	160

53 131 200

Spigot Saddle with Cutter

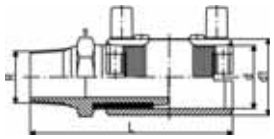


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- d315 - 400 mm: application is limited on pipes d355 and d400 mm. Not suitable for pipes if larger wall thickness than SDR 17 pipes.
- **Delivery without lower part for assembling as Top Load with tool no. 799.350.477; angle adaptor (799.350.340) for fusion cable required

d [mm]	d1 [mm]	Code	kg	d2 [mm]	H [mm]	H1 [mm]	L [mm]	SW [mm]
63	32	**193 131 234**	0.469	19	145	50	165	13
63	63	**193 131 237**	1.036	32	152	50	165	17
75	32	**193 131 244**	0.618	19	151	50	165	13
75	63	**193 131 247**	1.166	32	158	50	165	17
90	32	**193 131 254**	0.543	19	158	50	165	13
90	63	**193 131 257**	1.128	32	165	50	165	17
110	32	**193 131 264**	0.607	19	168	50	165	13
110	63	**193 131 267**	1.195	32	175	50	165	17
125	32	**193 131 274**	0.659	19	176	50	165	13
125	63	**193 131 277**	1.224	32	183	50	165	17
140	32	**193 131 284**	0.679	19	183	50	165	13
140	63	**193 131 287**	1.224	32	190	50	165	17
160	32	**193 131 294**	0.652	19	193	50	165	13
160	63	**193 131 297**	1.186	32	200	50	165	17
180	32	**193 131 304**	0.777	19	203	50	165	13
180	63	**193 131 307**	1.316	32	210	50	165	17
200	32	**193 131 314**	0.854	19	213	50	165	13
200	63	**193 131 317**	1.352	32	220	50	165	17
225	32	**193 131 324**	0.856	19	226	50	165	13
225	63	**193 131 327**	1.324	32	233	50	165	17
250	32	**193 131 334**	0.787	19	238	50	165	13
250	63	**193 131 337**	1.348	32	245	50	165	17
** 280	63	**193 131 347**	0.830	35	245	50	165	17
** 315 - 355	63	**193 131 357**	1.094	35	245	50	165	17

20 92 07

Transition coupler PE/brass (Ms 58) Male thread



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d [mm]	R [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
20	½	**720 920 756**	0.187	31	110	30
20	1	**720 920 754**	0.344	44	124	40
25	¾	**720 920 757**	0.254	36	111	35
25	1	**720 920 763**	0.340	44	124	40
32	½	**720 920 764**	0.213	44	121	30
32	¾	**720 920 765**	0.268	44	122	35

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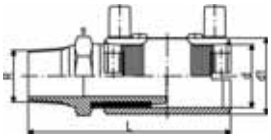
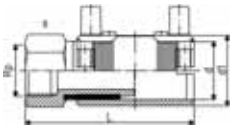


d [mm]	R [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
32	1	**720 920 758**	0.340	44	117	40
32	1 ¼	**720 920 766**	0.489	54	135	50
32	1 ½	**720 920 767**	0.635	60	143	60
32	2	**720 920 768**	1.000	81	157	70
40	1	**720 920 771**	0.364	54	133	40
40	1 ¼	**720 920 759**	0.514	54	127	50
40	1 ½	**720 920 772**	0.645	66	143	60
40	2	**720 920 773**	0.961	81	157	70
50	1	**720 920 776**	0.367	66	141	40
50	1 ¼	**720 920 777**	0.554	66	143	50
50	1 ½	**720 920 760**	0.652	66	135	60
50	2	**720 920 778**	0.971	81	157	70
63	1	**720 920 781**	0.441	81	151	40
63	1 ¼	**720 920 782**	0.600	81	153	40
63	1 ½	**720 920 783**	0.712	81	153	60
63	2	**720 920 761**	0.943	81	147	70

20 92 02

Transition coupler PE/brass (Ms 58) Female thread

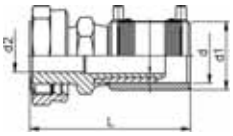


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d [mm]	Rp [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
32	1	**720 920 258**	0.306	44	108	40
40	1 ¼	**720 920 259**	0.496	54	118	50
50	1 ½	**720 920 260**	0.725	66	126	60
63	1	**720 920 281**	1.300	81	138	70
63	1 ¼	**720 920 282**	1.230	81	138	70
63	1 ½	**720 920 283**	1.134	81	138	70
63	2	**720 920 261**	1.057	81	138	70

20 91 00

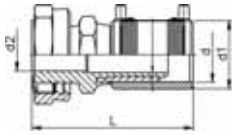
Transition Coupler PE/brass (Ms 58) with loose Nut



- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and reductions
- Incl. flat gasket for water applications (KTW / WRAS approved)

d [mm]	Rp [inch]	Code	kg	d1 [mm]	d2 [mm]	L [mm]
25	¾	**720 910 007**	0.232	36	15	104
25	1	**720 910 017**	0.315	36	16	106
32	1	**720 910 008**	0.297	44	20	110
32	1 ¼	**720 910 018**	0.460	44	22	114
32	1 ½	**720 910 028**	0.480	44	22	114
40	1	**720 910 009**	0.465	54	21	119
40	1 ¼	**720 910 019**	0.520	54	25	123
40	1 ½	**720 910 029**	0.577	54	28	123
50	1	**720 910 020**	0.635	66	20	128
50	1 ¼	**720 910 030**	0.730	66	25	133
50	1 ½	**720 910 010**	0.736	66	29	133
50	2	**720 910 040**	0.929	66	36	137
63	1	**720 910 021**	1.013	81	20	137

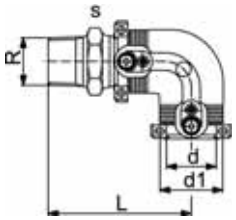
table continued next page



d [mm]	Rp [inch]	Code	kg	d1 [mm]	d2 [mm]	L [mm]
63	1 ¼	**720 910 031**	1.060	81	25	141
63	1 ½	**720 910 041**	1.070	81	29	141
63	2	**720 910 011**	1.251	81	36	145

20 10 07

Transition elbow 90° PE/brass (Ms 58) Male thread

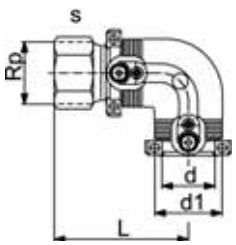


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d [mm]	R [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
20	½	**720 100 756**	0.240	31	96	30
25	¾	**720 100 757**	0.260	36	97	35
32	1	**720 100 758**	0.368	44	98	40
32	1 ¼	**720 100 766**	0.500	44	100	50
32	1 ½	**720 100 767**	0.562	44	100	60
40	1	**720 100 771**	0.511	54	107	50
40	1 ¼	**720 100 759**	0.534	54	109	50
40	1 ½	**720 100 772**	0.615	54	109	60
50	1	**720 100 776**	0.677	66	116	60
50	1 ¼	**720 100 777**	0.771	66	118	60
50	1 ½	**720 100 760**	0.734	66	118	60
63	1 ¼	**720 100 782**	1.040	81	128	70
63	1 ½	**720 100 783**	1.039	81	128	70
63	2	**720 100 761**	1.108	81	132	70

20 10 02

Transition elbow 90° PE/brass (Ms 58) Female thread

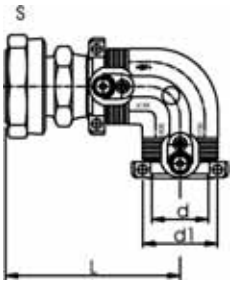


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d [mm]	Rp [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
32	1	**720 100 258**	0.359	44	89	40
40	1 ¼	**720 100 259**	0.525	54	100	50
50	1 ½	**720 100 260**	0.825	66	109	60
63	1	**720 100 281**	1.420	81	123	70
63	1 ¼	**720 100 282**	1.391	81	123	70
63	1 ½	**720 100 283**	1.305	81	123	70
63	2	**720 100 261**	1.165	81	123	70

20 10 00

Transition Elbow 90° PE/brass (Ms 58) with loose Nut

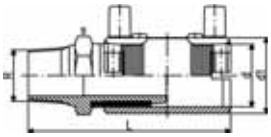


- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit
- Incl. flat gasket for water applications (KTW / WRAS approved)

d [mm]	Rp [inch]	Code	kg	d1 [mm]	L [mm]
25	¾	**720 100 007**	0.240	36	90
25	1	**720 100 017**	0.310	36	92
32	1	**720 100 008**	0.347	44	91
32	1 ¼	**720 100 018**	0.490	44	95
40	1	**720 100 009**	0.505	54	101
40	1 ¼	**720 100 019**	0.565	54	105
40	1 ½	**720 100 029**	0.635	54	105
50	1	**720 100 020**	0.760	66	111
50	1 ½	**720 100 010**	0.850	66	116
50	2	**720 100 040**	1.060	66	120
63	1	**720 100 021**	1.114	81	121
63	1 ½	**720 100 041**	1.210	81	125
63	2	**720 100 011**	1.375	81	129

24 92 07

Transition coupler PE/steel (stainless 1.4305) Male thread

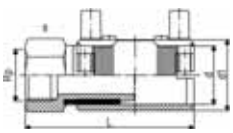


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and reductions

d [mm]	R [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
20	½	**724 920 756**	0.165	31	110	30
25	¾	**724 920 757**	0.249	36	111	35
32	1	**724 920 758**	0.332	44	117	40
40	1 ¼	**724 920 759**	0.464	54	127	50
40	1 ½	**724 920 772**	0.528	66	143	60
50	1 ½	**724 920 760**	0.611	66	135	60
63	1 ½	**724 920 771**	0.904	81	147	70
63	2	**724 920 761**	0.942	81	147	70

24 92 02

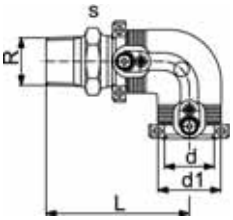
Transition coupler PE/steel (stainless 1.4305) Female thread



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d [mm]	Rp [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
20	½	**724 920 256**	0.179	31	100	30
25	¾	**724 920 257**	0.231	36	101	35
32	1	**724 920 258**	0.319	44	108	40
40	1 ¼	**724 920 259**	0.480	54	118	50
50	1 ½	**724 920 260**	0.646	66	126	60
63	2	**724 920 261**	0.931	81	138	70

24 10 07

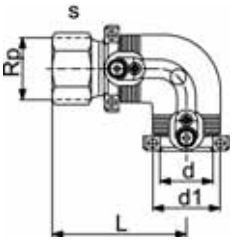


Transition elbow 90° PE/steel (stainless 1.4305) Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d [mm]	R [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
20	½	**724 100 756**	0.211	31	96	30
25	¾	**724 100 757**	0.230	36	97	35
32	1	**724 100 758**	0.324	44	98	40
40	1 ¼	**724 100 759**	0.560	54	109	50
40	1 ½	**724 100 772**	0.599	54	109	60
50	1 ½	**724 100 760**	0.701	66	118	60
63	1 ½	**724 100 771**	0.986	81	132	70
63	2	**724 100 761**	1.105	81	132	70

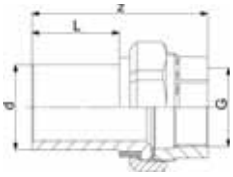
24 10 02



Transition elbow 90° PE/steel (stainless 1.4305) Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d [mm]	Rp [inch]	Code	kg	d1 [mm]	L [mm]	s [mm]
20	½	**724 100 256**	0.211	31	86	30
25	¾	**724 100 257**	0.237	36	87	35
32	1	**724 100 258**	0.320	44	89	40
40	1 ¼	**724 100 259**	0.545	54	100	50
50	1 ½	**724 100 260**	0.805	66	109	60
63	2	**724 100 261**	1.020	81	123	70

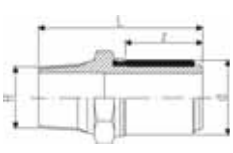


Union adaptor

- With female thread and PE-union end
- The Code Nr. includes the entire union (galvanised)
- **PE 100 SDR 11** (ISO S5)

d [mm]	Rp [inch]	Code	kg	L [mm]	L2 [mm]	SW1 [mm]	G [inch]
20	½	**701 485 560**	0.152	94	52	27	1
25	¾	**701 485 561**	0.252	100	52	32	11/4
32	1	**701 485 562**	0.333	108	54	34	11/2
40	1 ¼	**701 485 563**	0.563	114	57	43	2
50	1 ½	**701 485 564**	0.765	124	65	50	21/4
63	2	**701 485 565**	1.054	134	65	61	23/4

24 92 07



Transition adaptor PE/steel (stainless 1.4305) Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d [mm]	R [inch]	Code	kg	L [mm]	z [mm]
20	½	**724 920 706**	0.120	75	33
25	¾	**724 920 707**	0.179	76	33
32	1	**724 920 708**	0.244	80	35
40	1 ¼	**724 920 709**	0.390	86	39
40	1 ½	**724 920 719**	0.446	86	39

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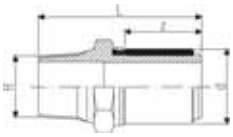
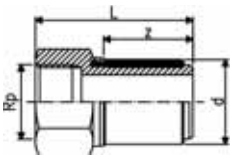


d [mm]	R [inch]	Code	kg	L [mm]	z [mm]
50	1 ½	**724 920 710**	0.478	90	43
63	1 ½	**724 920 721**	0.653	98	47
63	2	**724 920 711**	0.722	98	47

24 92 02

Transition adaptor PE/steel (stainless 1.4305) Female thread

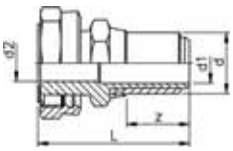


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d [mm]	Rp [inch]	Code	kg	L [mm]	z [mm]
20	½	**724 920 206**	0.128	65	33
25	¾	**724 920 207**	0.181	66	33
32	1	**724 920 208**	0.237	71	35
40	1 ¼	**724 920 209**	0.373	77	39
50	1 ½	**724 920 210**	0.527	81	43
63	2	**724 920 211**	0.733	89	47

20 92 00

Transition adaptor PE/brass Loose nut (Ms 58)

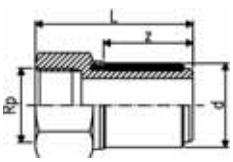


- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Only for ELGEF Plus Couplers and Fittings
- Incl. flat gasket for water applications (KTW / WRAS approved)

d [mm]	Rp [inch]	Code	kg	d2 [mm]	L [mm]	z [mm]
25	¾	**720 920 007**	0.152	15	68	32
25	1	**720 920 017**	0.223	16	70	32
32	1	**720 920 008**	0.235	20	72	34
32	1 ¼	**720 920 018**	0.356	22	76	34
32	1 ½	**720 920 028**	0.355	22	76	34
40	1	**720 920 009**	0.341	21	77	38
40	1 ¼	**720 920 019**	0.401	25	81	38
40	1 ½	**720 920 029**	0.471	28	81	38
50	1	**720 920 020**	0.517	20	82	42
50	1 ¼	**720 920 030**	0.549	25	87	42
50	1 ½	**720 920 010**	0.584	29	87	42
50	2	**720 920 040**	0.808	36	91	42
63	1	**720 920 021**	0.804	20	87	46
63	1 ¼	**720 920 031**	0.850	25	91	46
63	1 ½	**720 920 041**	0.847	29	91	46
63	2	**720 920 011**	1.018	36	95	46

20 92 02

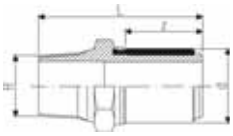
Transition adaptor PE/brass (Ms 58) Female thread



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d [mm]	Rp [inch]	Code	kg	L [mm]	z [mm]
32	1	**720 920 208**	0.250	71	35
40	1 ¼	**720 920 209**	0.386	77	39
50	1 ½	**720 920 210**	0.594	81	43
63	1	**720 920 221**	1.100	89	47
63	1 ¼	**720 920 231**	1.062	89	47
63	1 ½	**720 920 241**	0.958	89	47
63	2	**720 920 211**	0.832	89	47

20 92 07



Transition adaptor PE/brass (Ms 58)
Male thread

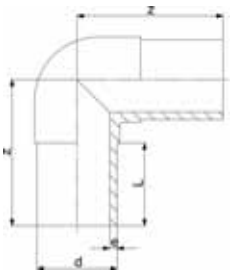
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d [mm]	R [inch]	Code	kg	L [mm]	z [mm]
20	½	**720 920 706**	0.133	75	33
25	¾	**720 920 707**	0.182	76	33
32	1	**720 920 708**	0.257	80	35
32	1 ¼	**720 920 718**	0.370	82	35
32	1 ½	**720 920 728**	0.437	82	35
40	1	**720 920 719**	0.358	84	39
40	1 ¼	**720 920 709**	0.410	86	39
40	1 ½	**720 920 729**	0.454	86	39
50	1	**720 920 720**	0.505	88	43
50	1 ¼	**720 920 730**	0.539	90	43
50	1 ½	**720 920 710**	0.514	90	43
63	1 ¼	**720 920 721**	0.739	94	47
63	1 ½	**720 920 731**	0.709	94	47
63	2	**720 920 711**	0.762	98	47

Spigot Fittings for Electrofusion

53 10 10

Elbow 90° PE100 SDR11

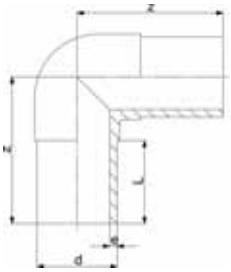


- Long spigot version
- 10 bar Gas / 16 bar Water

d [mm]	Code	kg	z [mm]	L [mm]	e [mm]	PF
20	**753 101 006**	0.027	75	52	3.0	2 51 301 001
25	**753 101 007**	0.040	80	52	3.0	2 51 301 001
32	**753 101 008**	0.056	85	54	3.0	2 51 301 001
40	**753 101 009**	0.089	95	57	3.7	2 51 301 001
50	**753 101 010**	0.156	105	63	4.6	2 51 301 001
63	**753 101 011**	0.274	115	65	5.8	2 51 301 001
75	**753 101 012**	0.414	130	72	6.8	2 51 301 001
90	**753 101 013**	0.704	150	81	8.2	2 51 301 001
110	**753 101 014**	1.158	165	86	10.0	2 51 301 001
125	**753 101 015**	1.609	180	93	11.4	2 51 301 001
140	**753 101 016**	2.222	194	92	12.7	2 51 301 001
160	**753 101 017**	3.100	210	103	14.6	2 51 301 001
180	**753 101 018**	4.328	232	107	16.4	2 51 301 001
200	**753 101 019**	5.739	253	117	18.2	2 51 301 001
225	**753 101 020**	7.775	270	122	20.5	2 51 301 001
250	**753 101 001**	10.506	292	130	22.7	2 51 301 002
280	**753 100 922**	15.059	320	140	25.4	2 51 301 002
315	**753 100 923**	21.960	370	150	28.6	2 51 301 002

53 10 08

Elbow 90° PE100 SDR17/17,6

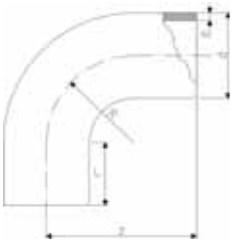


- Long spigot version
- 5 bar Gas / 10 bar Water

d [mm]	Code	kg	z [mm]	L [mm]	e [mm]	PF
90	**753 100 813**	0.543	150	81	5,4	2 51 301 001
110	**753 100 814**	0.876	165	86	6,6	2 51 301 001
125	**753 100 815**	0.927	180	93	7,4	2 51 301 001
140	**753 100 816**	1.547	194	92	8,3	2 51 301 001
160	**753 100 817**	2.385	210	102	9,5	2 51 301 001
180	**753 100 818**	3.205	232	107	10,7	2 51 301 001
200	**753 100 819**	4.298	253	115	11,9	2 51 301 001
225	**753 100 820**	5.864	270	120	13,4	2 51 301 001
250	**753 100 821**	8.000	292	130	14,8	2 51 301 002
280	**753 100 822**	11.328	320	140	16,6	2 51 301 002
315	**753 100 823**	15.877	370	150	18,7	2 51 301 002

53 00 09

Bend 90° PE100 SDR11



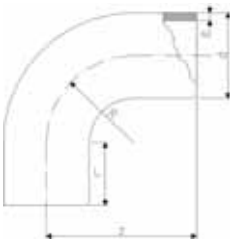
- Long spigot version
- 10 bar Gas / 16 bar Water
- bends made out of seamless pipe shall not be shortened

* made out of seamless pipe

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 001 008**	0.050	78	46	32	2,9
40	**753 001 009**	0.090	91	49	40	3,7
50	**753 001 010**	0.160	107	55	50	4,6
63	**753 001 011**	0.280	130	63	63	5,8
75	**753 001 012**	0.464	152	70	75	6,8
90	**753 001 013**	0.530	168	79	90	8,2
110	**753 001 014**	1.282	193	82	110	10,0
125	**753 001 015**	1.290	216	87	125	11,4
140	**753 001 016**	2.230	232	92	140	12,7
160	**753 001 017**	3.424	258	98	160	14,6
180	**753 001 018**	5.000	290	105	180	16,4
200	**753 001 019**	6.925	317	112	200	18,2
225	**753 001 020**	9.770	350	120	225	20,5
250	**753 001 021**	9.230	375	130	250	22,7
280	**753 001 022**	15.487	430	150	280	25,4
315	**753 001 023**	23.950	470	150	315	28,6
* 355	**753 001 024**	53.300	900	250	533	32,3
* 400	**753 001 025**	71.900	980	250	600	36,4
* 450	**753 001 026**	97.300	1070	250	675	40,9
* 500	**753 001 027**	134.000	1200	280	750	45,5
* 560	**753 001 028**	179.300	1290	280	840	50,9
* 630	**753 001 029**	243.200	1400	280	945	57,3
* 710	**753 001 030**	469.943	2200	570	1630	64,5
* 800	**753 001 031**	577.131	2200	480	1720	72,6

53 00 08

Bend 90° PE100 SDR17



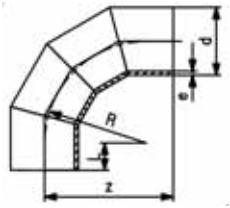
- Long spigot version
- 5 bar Gas / 10 bar Water
- bends made out of seamless pipe shall not be shortened

* made out of seamless pipe

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 000 813**	0.521	168	79	90	5,4
110	**753 000 814**	0.465	193	82	110	6,6
125	**753 000 815**	1.300	216	87	125	7,4
140	**753 000 816**	1.789	232	92	140	8,3
160	**753 000 817**	2.410	258	98	160	9,5
180	**753 000 818**	4.000	290	105	180	10,7
200	**753 000 819**	6.500	317	112	200	11,9
225	**753 000 820**	6.414	350	120	225	13,4
250	**753 000 821**	9.940	375	130	250	14,8
280	**753 000 822**	13.795	430	150	280	16,6
315	**753 000 823**	24.000	470	150	315	18,7
* 355	**753 000 824**	36.700	900	250	533	21,1
* 400	**753 000 825**	49.700	980	250	600	23,7
* 450	**753 000 826**	66.600	1070	250	675	26,7
* 500	**753 000 827**	87.400	1200	280	750	29,7
* 560	**753 000 828**	116.000	1290	280	840	33,2
* 630	**753 000 829**	159.600	1400	280	945	37,4
* 710	**753 000 830**	317.382	2200	570	1630	42,1
* 800	**753 000 831**	389.859	2200	480	1720	47,4

53 00 08

Bend 90° PE100 SDR17



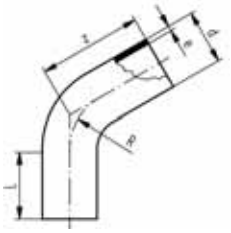
Model:

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
710	**753 002 001**	202.419	1415	350	1065	42.1
800	**753 002 002**	279.918	1550	350	1200	47.4
900	**753 002 003**	386.595	1700	350	1350	53.3
1000	**753 002 004**	534.660	1900	400	1500	59.3

53 07 10

Bend 60° PE100 SDR11

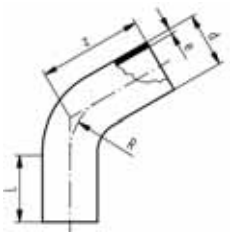


- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 071 008**	0.070	128	80	48	2,9
40	**753 071 009**	0.120	135	80	60	3,7
50	**753 071 010**	0.240	158	100	75	4,6
63	**753 071 011**	0.420	173	100	95	5,8
75	**753 071 012**	0.600	182	100	113	6,8
90	**753 071 013**	0.900	193	100	135	8,2
110	**753 071 014**	1.780	270	150	165	10,0
125	**753 071 015**	2.500	283	150	188	11,4
140	**753 071 016**	2.700	296	150	210	12,7
160	**753 071 017**	4.574	313	150	240	14,6
180	**753 071 018**	4.900	330	150	270	16,4
200	**753 071 019**	6.400	348	150	300	18,2
225	**753 071 020**	8.600	370	150	338	20,5
250	**753 071 021**	14.500	500	250	375	22,7
280	**753 071 022**	19.100	530	250	420	25,4
315	**753 071 023**	25.600	612	250	473	28,6
355	**753 071 024**	41.700	690	300	533	32,3
400	**753 071 025**	55.800	730	300	600	36,4
450	**753 071 026**	76.000	780	300	675	40,9
500	**753 071 027**	104.600	880	350	750	45,5
560	**753 071 028**	139.500	930	350	840	50,9
630	**753 071 029**	188.500	1000	350	945	57,3

53 07 08

Bend 60° PE100 SDR17/17,6

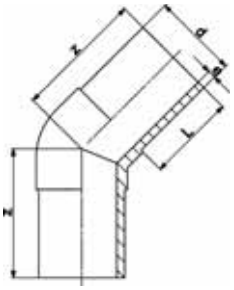


- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 070 813**	0.600	193	100	135	5,4
110	**753 070 814**	1.280	270	150	165	6,6
125	**753 070 815**	1.300	283	150	187	7,4
140	**753 070 816**	1.800	296	150	210	8,3
160	**753 070 817**	3.160	313	150	240	9,5
180	**753 070 818**	3.190	330	150	270	10,7
200	**753 070 819**	4.200	348	150	300	11,9
225	**753 070 820**	5.600	370	150	337	13,4
250	**753 070 821**	9.250	500	250	375	14,8
280	**753 070 822**	15.000	530	250	420	16,6
315	**753 070 823**	19.500	612	250	472	18,7
355	**753 070 824**	30.100	690	300	532	21,1
400	**753 070 825**	38.200	730	300	600	23,7
450	**753 070 826**	53.700	780	300	675	26,7
500	**753 070 827**	73.900	880	350	750	29,7
560	**753 070 828**	98.200	930	350	840	33,2
630	**753 070 829**	132.300	1000	350	945	37,4

53 15 10

Elbow 45° PE100 SDR11

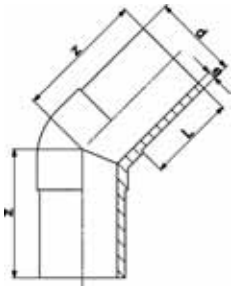


- Long spigot version
- 10 bar Gas / 16 bar Water

d [mm]	Code	kg	z [mm]	L [mm]	e [mm]	PF
20	**753 151 006**	0.027	70	52	3,0	2 51 301 001
25	**753 151 007**	0.037	75	52	3,0	2 51 301 001
32	**753 151 008**	0.050	80	54	3,0	2 51 301 001
40	**753 151 009**	0.086	85	57	3,7	2 51 301 001
50	**753 151 010**	0.133	90	63	4,6	2 51 301 001
63	**753 151 011**	0.227	95	65	5,8	2 51 301 001
75	**753 151 012**	0.350	105	72	6,8	2 51 301 001
90	**753 151 013**	0.565	120	81	8,2	2 51 301 001
110	**753 151 014**	0.921	130	86	10,0	2 51 301 001
125	**753 151 015**	1.290	140	92	11,4	2 51 301 001
140	**753 151 016**	1.796	164	120	12,7	2 51 301 001
160	**753 151 017**	2.454	162	102	14,6	2 51 301 001
180	**753 151 018**	3.274	170	107	16,4	2 51 301 001
200	**753 151 019**	4.362	186	116	18,2	2 51 301 001
225	**753 151 020**	5.981	200	123	20,5	2 51 301 001
250	**753 151 021**	8.283	220	130	22,7	2 51 301 002
280	**753 150 922**	10.285	230	140	25,4	2 51 301 002
315	**753 150 923**	14.124	250	150	28,6	2 51 301 002

53 15 08

Elbow 45° PE100 SDR17/17,6

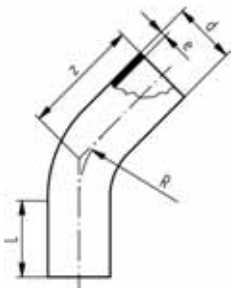


- Long spigot version
- 5 bar Gas / 10 bar Water

d [mm]	Code	kg	z [mm]	L [mm]	e [mm]	PF
90	**753 150 813**	0.411	120	81	5,4	2 51 301 001
110	**753 150 814**	0.686	130	86	6,6	2 51 301 001
125	**753 150 815**	0.948	140	92	7,4	2 51 301 001
140	**753 150 816**	1.259	164	120	8,3	2 51 301 001
160	**753 150 817**	1.901	162	102	9,5	2 51 301 001
180	**753 150 818**	2.386	170	107	10,7	2 51 301 001
200	**753 150 819**	3.153	186	116	11,9	2 51 301 001
225	**753 150 820**	4.441	205	123	13,4	2 51 301 001
250	**753 150 821**	6.012	217	130	14,8	2 51 301 002
280	**753 150 822**	7.489	230	140	16,6	2 51 301 002
315	**753 150 823**	10.123	250	150	18,7	2 51 301 002

53 05 10

Bend 45° PE100 SDR11

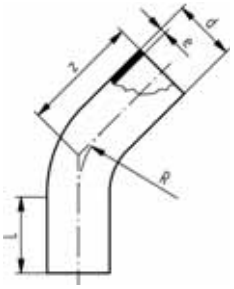


- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 051 008**	0.077	120	80	48	2,9
40	**753 051 009**	0.120	120	80	60	3,7
50	**753 051 010**	0.240	149	100	75	4,6
63	**753 051 011**	0.360	161	100	95	5,8
75	**753 051 012**	0.560	168	100	113	6,8
90	**753 051 013**	0.760	177	100	135	8,2
110	**753 051 014**	1.700	243	150	165	10,0
125	**753 051 015**	2.186	253	150	188	11,4
140	**753 051 016**	2.800	262	150	210	12,7
160	**753 051 017**	3.800	274	160	240	14,6
180	**753 051 018**	5.140	287	150	270	16,4
200	**753 051 019**	7.058	299	150	300	18,2
225	**753 051 020**	7.400	315	150	338	20,5
250	**753 051 021**	13.000	440	250	375	22,7
280	**753 051 022**	22.000	460	250	420	25,4
315	**753 051 023**	24.930	535	250	473	28,6
355	**753 051 024**	39.500	620	300	533	32,3
400	**753 051 025**	48.500	650	300	600	36,4
450	**753 051 026**	69.800	680	300	675	40,9
500	**753 051 027**	96.300	760	350	750	45,5
560	**753 051 028**	129.800	800	350	840	50,9
630	**753 051 029**	174.000	870	350	945	57,3

53 05 08

Bend 45° PE100 SDR17/17,6

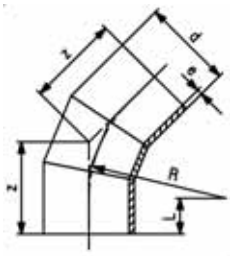


- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 050 813**	0.600	177	100	135	5,4
110	**753 050 814**	1.208	243	150	165	6,6
125	**753 050 815**	1.540	253	150	188	7,4
140	**753 050 816**	1.720	262	150	210	8,3
160	**753 050 817**	2.200	274	150	240	9,5
180	**753 050 818**	3.000	287	150	270	10,7
200	**753 050 819**	3.700	299	150	300	11,9
225	**753 050 820**	5.000	315	150	338	13,4
250	**753 050 821**	10.691	440	250	375	14,8
280	**753 050 822**	15.000	460	250	420	16,6
315	**753 050 823**	17.800	535	250	473	18,7
355	**753 050 824**	25.600	620	300	533	21,1
400	**753 050 825**	36.600	650	300	600	23,7
450	**753 050 826**	45.300	680	300	675	26,7
500	**753 050 827**	62.400	760	350	750	29,7
560	**753 050 828**	81.900	800	350	840	33,2
630	**753 050 829**	62.400	870	350	945	37,4

53 05 08

Bend 45° PE100 SDR17/17,6



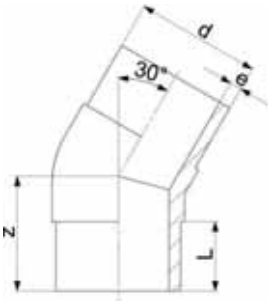
Model:

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8
- 8 bar water

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
710	**753 003 001**	129.998	792	350	1065	42.1
800	**753 003 002**	176.165	847	350	1200	47.4
900	**753 003 003**	252.638	960	350	1350	53.3
1000	**753 003 004**	332.107	1022	400	1500	59.3

53 12 09

Elbow 30° PE100 SDR11

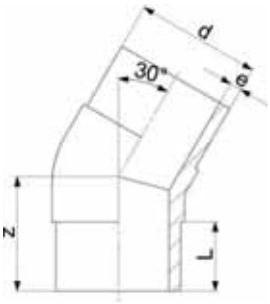


- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design

d [mm]	Code	kg	z [mm]	L [mm]	e [mm]
32	**753 120 908**	0.530	70	54	3,0
40	**753 120 909**	0.530	80	57	3,7
50	**753 120 910**	0.121	80	63	4,6
63	**753 120 911**	0.207	80	65	5,8
75	**753 120 912**	0.311	90	72	6,8
90	**753 120 913**	0.540	100	81	8,2
110	**753 120 914**	0.840	105	86	10,0
125	**753 120 915**	1.174	115	92	11,4
140	**753 120 916**	1.760	135	92	12,7
160	**753 120 917**	2.155	130	102	14,6
180	**753 120 918**	2.911	140	107	16,4
200	**753 120 919**	3.892	150	116	18,2
225	**753 120 920**	5.332	165	123	20,5
250	**753 120 921**	7.307	190	130	22,7
280	**753 120 922**	10.600	200	139	25,4
315	**753 120 923**	12.775	200	150	28,6

53 12 08

Elbow 30° PE100 SDR17

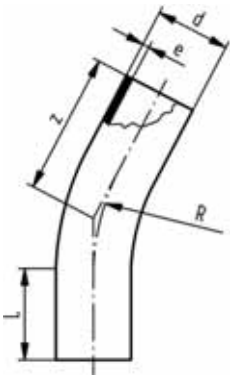


- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design

d [mm]	Code	kg	z [mm]	L [mm]	e [mm]
90	**753 120 813**	0.363	110	81	5,4
110	**753 120 814**	0.607	115	86	6,6
125	**753 120 815**	0.819	125	92	7,4
140	**753 120 816**	1.112	150	92	8,3
160	**753 120 817**	1.526	140	102	9,5
180	**753 120 818**	2.040	150	107	10,7
200	**753 120 819**	2.780	160	116	11,9
225	**753 120 820**	3.798	180	123	13,4
250	**753 120 821**	5.830	200	130	14,8
280	**753 120 822**	8.100	200	139	16,6
315	**753 120 823**	8.655	220	150	18,7

53 06 10

Bend 30° PE100 SDR11

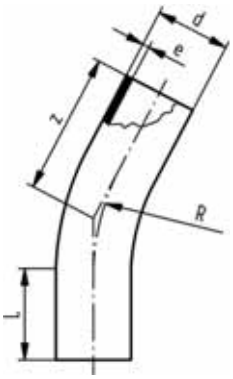


- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 061 008**	0.077	113	80	48	2,9
40	**753 061 009**	0.120	116	80	60	3,7
50	**753 061 010**	0.200	140	100	75	4,6
63	**753 061 011**	0.400	150	100	95	5,8
75	**753 061 012**	0.520	155	100	113	6,8
90	**753 061 013**	0.760	160	100	135	8,2
110	**753 061 014**	1.689	219	150	165	10,0
125	**753 061 015**	2.065	225	150	188	11,4
140	**753 061 016**	2.200	231	150	210	12,7
160	**753 061 017**	3.650	239	150	240	14,6
180	**753 061 018**	4.782	247	150	270	16,4
200	**753 061 019**	5.777	255	150	300	18,2
225	**753 061 020**	6.300	266	150	338	20,5
250	**753 061 021**	13.100	385	250	375	22,7
280	**753 061 022**	16.300	400	250	420	25,4
315	**753 061 023**	21.850	460	250	473	28,6
355	**753 061 024**	34.900	540	300	533	32,3
400	**753 061 025**	45.900	560	300	600	36,4
450	**753 061 026**	60.200	580	300	675	40,9
500	**753 061 027**	83.300	630	350	750	45,5
560	**753 061 028**	108.600	680	350	840	50,9
630	**753 061 029**	148.300	730	350	945	57,3

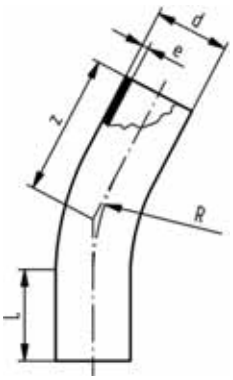
53 06 08

Bend 30° PE100 SDR17



- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

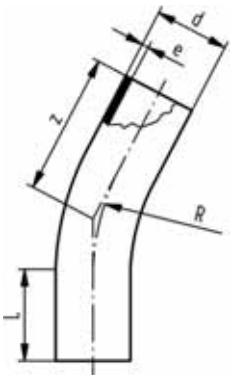
d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 060 813**	0.500	160	100	135	5,4
110	**753 060 814**	1.060	219	150	165	6,6
125	**753 060 815**	1.100	225	150	188	7,4
140	**753 060 816**	1.720	231	150	210	8,3
160	**753 060 817**	2.565	239	150	240	9,5
180	**753 060 818**	3.389	247	150	270	10,7
200	**753 060 819**	4.213	255	150	300	11,9
225	**753 060 820**	7.540	266	150	338	13,4
250	**753 060 821**	11.600	385	250	375	14,8
280	**753 060 822**	12.800	400	250	420	16,6
315	**753 060 823**	25.000	460	250	473	18,7
355	**753 060 824**	22.700	540	300	533	21,1
400	**753 060 825**	29.800	560	300	600	23,7
450	**753 060 826**	39.100	580	300	675	26,7
500	**753 060 827**	54.000	650	350	750	29,7
560	**753 060 828**	70.300	680	350	840	33,2
630	**753 060 829**	95.800	730	350	945	37,4



Bend 22° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 081 008**	0.077	113	80	48	2,9
40	**753 081 009**	0.120	116	80	60	3,7
50	**753 081 010**	0.200	140	100	75	4,6
63	**753 081 011**	0.400	150	100	95	5,8
75	**753 081 012**	0.520	155	100	113	6,8
90	**753 081 013**	0.760	160	100	135	8,2
110	**753 081 014**	1.500	219	150	165	10,0
125	**753 081 015**	2.000	225	150	188	11,4
140	**753 081 016**	2.200	231	150	210	12,7
160	**753 081 017**	3.300	239	150	240	14,6
180	**753 081 018**	3.700	247	150	270	16,4
200	**753 081 019**	4.750	255	150	300	18,2
225	**753 081 020**	6.300	266	150	338	20,5
250	**753 081 021**	14.015	385	250	375	22,7
280	**753 081 022**	18.510	400	250	420	25,4
315	**753 081 023**	21.845	460	250	473	28,6
355	**753 081 024**	34.900	540	300	533	32,3
400	**753 081 025**	45.900	560	300	600	36,4
450	**753 081 026**	60.200	580	300	675	40,9
500	**753 081 027**	83.300	650	350	750	45,5
560	**753 081 028**	108.600	680	350	840	50,9
630	**753 081 029**	148.300	730	350	945	57,3



Bend 22° PE100 SDR17/17,6

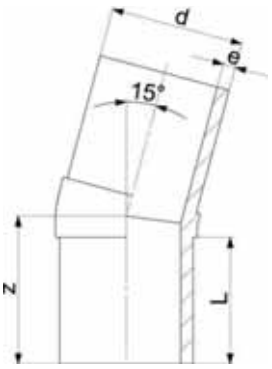
- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 080 813**	0.500	160	100	135	5.4
110	**753 080 814**	1.060	219	150	165	6.6
125	**753 080 815**	1.100	225	150	188	7.4
140	**753 080 816**	1.720	231	150	210	8.3
160	**753 080 817**	1.900	239	150	240	9.5
180	**753 080 818**	3.318	247	150	270	10.7
200	**753 080 819**	3.200	255	150	300	11.9
225	**753 080 820**	5.431	266	150	338	13.4
250	**753 080 821**	9.904	385	250	375	14.8
280	**753 080 822**	12.800	400	250	420	16.6
315	**753 080 823**	14.144	460	250	473	18.7
355	**753 080 824**	22.700	540	300	533	21.1
400	**753 080 825**	29.800	560	300	600	23.7
450	**753 080 826**	39.100	580	300	675	26.7
500	**753 080 827**	54.000	650	350	750	29.7
560	**753 080 828**	70.300	680	350	840	33.2
630	**753 080 829**	95.800	730	350	945	37.4

53 14 10

Elbow 15° type L PE100 SDR11

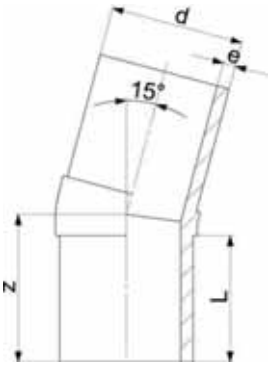
- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design



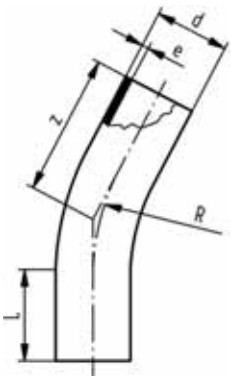
d [mm]	Code	kg	z [mm]	L [mm]	e [mm]
32	**753 141 008**	0.051	70	54	3.0
40	**753 141 009**	0.082	80	57	3.7
50	**753 141 010**	0.118	80	63	4.6
63	**753 141 011**	0.200	80	65	5.8
75	**753 141 012**	0.290	90	72	6.8
90	**753 141 013**	0.479	100	81	8.2
110	**753 141 014**	0.785	105	86	10.0
125	**753 141 015**	1.063	115	92	11.4
140	**753 141 016**	1.600	135	92	12.7
160	**753 141 017**	2.170	130	102	14.6
180	**753 141 018**	2.653	140	107	16.4
200	**753 141 019**	3.438	150	116	18.2
225	**753 141 020**	4.765	165	123	20.5
250	**753 141 021**	8.300	190	130	22.7
280	**753 141 022**	10.600	200	139	25.4
315	**753 141 023**	13.100	200	150	28.6

Elbow 15° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design



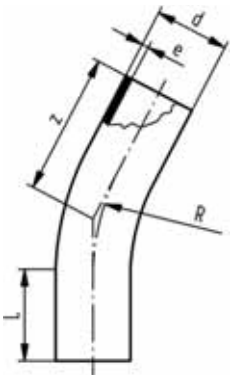
d [mm]	Code	kg	z [mm]	L [mm]	e [mm]
90	**753 140 813**	0.337	100	81	5.4
110	**753 140 814**	0.551	105	86	6.6
125	**753 140 815**	0.728	115	92	7.4
140	**753 140 816**	0.370	135	92	8.3
160	**753 140 817**	1.364	130	102	9.5
180	**753 140 818**	2.040	140	107	10.7
200	**753 140 819**	2.371	150	116	11.9
225	**753 140 820**	3.335	165	123	13.4
250	**753 140 821**	5.830	190	130	14.8
280	**753 140 822**	8.100	195	139	16.6
315	**753 140 823**	7.528	200	150	18.7



Bend 11° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

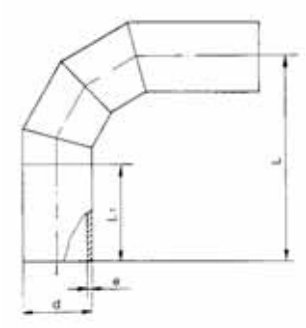
d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
32	**753 091 008**	0.077	113	80	48	2.9
40	**753 091 009**	0.120	116	80	60	3.7
50	**753 091 010**	0.200	140	100	75	4.6
63	**753 091 011**	0.400	150	100	95	5.8
75	**753 091 012**	0.520	155	100	113	6.8
90	**753 091 013**	0.760	160	100	135	8.2
110	**753 091 014**	1.500	219	150	165	10.0
125	**753 091 015**	2.000	225	150	188	11.4
140	**753 091 016**	2.200	231	150	210	12.7
160	**753 091 017**	3.300	239	150	240	14.6
180	**753 091 018**	3.700	247	150	270	16.4
200	**753 091 019**	4.750	255	150	300	18.2
225	**753 091 020**	7.773	266	150	338	20.5
250	**753 091 021**	13.100	385	250	375	22.7
280	**753 091 022**	16.300	400	250	420	25.4
315	**753 091 023**	21.845	460	250	473	28.6
355	**753 091 024**	34.900	540	300	533	32.3
400	**753 091 025**	45.900	560	300	600	36.4
450	**753 091 026**	60.200	580	300	675	40.9
500	**753 091 027**	83.300	650	350	750	45.5
560	**753 091 028**	108.600	680	350	840	50.9
630	**753 091 029**	148.300	730	350	945	57.3



Bend 11° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- made out of seamless pipe
- bends made out of seamless pipe shall not be shortened

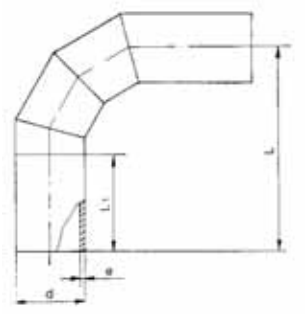
d [mm]	Code	kg	z [mm]	L [mm]	R [mm]	e [mm]
90	**753 090 813**	0.500	160	100	135	5.4
110	**753 090 814**	1.060	219	150	165	6.6
125	**753 090 815**	1.100	225	150	188	7.4
140	**753 090 816**	1.720	231	150	210	8.3
160	**753 090 817**	2.653	239	150	240	9.5
180	**753 090 818**	2.500	247	150	270	10.7
200	**753 090 819**	4.308	255	150	300	11.9
225	**753 090 820**	7.540	266	150	338	13.4
250	**753 090 821**	11.600	385	250	375	14.8
280	**753 090 822**	12.800	400	250	420	16.6
315	**753 090 823**	25.000	460	250	473	18.7
355	**753 090 824**	22.700	540	300	533	21.1
400	**753 090 825**	29.800	560	300	600	23.7
450	**753 090 826**	39.100	580	300	675	26.7
500	**753 090 827**	54.000	650	350	750	29.7
560	**753 090 828**	70.300	680	350	840	33.2
630	**753 090 829**	95.800	730	350	945	37.4



Bend 90° PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,8

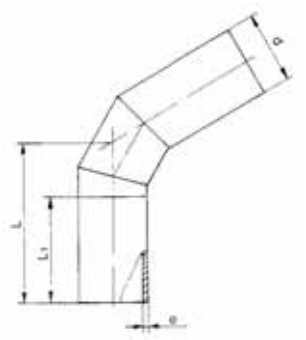
d [mm]	Code	L [mm]	L1 [mm]	e [mm]
110	**700 648 928**	315	150	10,0
125	**700 648 929**	338	150	11,4
140	**700 648 930**	360	150	12,8
160	**700 648 931**	390	150	14,6
180	**700 648 932**	420	150	16,4
200	**700 648 933**	450	150	18,2
225	**700 648 934**	488	150	20,5
250	**700 648 935**	625	250	22,8
280	**700 648 936**	670	250	25,5
315	**700 648 937**	773	300	28,7
355	**700 648 938**	833	300	32,3
400	**700 648 939**	900	300	36,4
450	**700 648 940**	975	300	41,0
500	**700 648 941**	1100	350	45,5
560	**700 648 942**	1190	350	51,0
630	**700 648 943**	1295	350	57,3



Bend 90° PE100 S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	**700 648 944**	1.122	315	150	6,3
125	**700 648 945**	1.584	338	150	7,1
140	**700 648 946**	2.145	360	150	8,0
160	**700 648 947**	2.970	390	150	9,1
180	**700 648 948**	4.026	420	150	10,2
200	**700 648 949**	5.346	450	150	11,4
225	**700 648 950**	7.260	488	150	12,8
250	**700 648 951**	11.550	625	250	14,2
280	**700 648 952**	15.510	670	250	15,9
315	**700 648 953**	23.100	773	300	17,9
355	**700 648 954**	31.152	833	300	20,1
400	**700 648 955**	42.768	900	300	22,7
450	**700 648 956**	58.410	975	300	25,5
500	**700 648 957**	63.888	1100	350	28,3
560	**700 648 958**	85.140	1190	350	31,7
630	**700 648 959**	114.840	1295	350	35,7



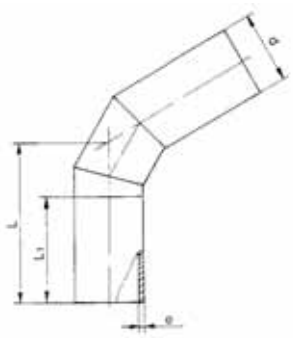
Bend 60° PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	**700 648 960**	1.377	245	150	10,0
125	**700 648 961**	1.944	258	150	11,4
140	**700 648 962**	2.633	271	150	12,8
160	**700 648 963**	3.645	288	150	14,6
180	**700 648 964**	4.941	305	150	16,4
200	**700 648 965**	6.561	323	150	18,2
225	**700 648 966**	8.910	345	150	20,5
250	**700 648 967**	14.175	466	250	22,8
280	**700 648 968**	19.035	492	250	25,5
315	**700 648 969**	28.350	576	300	28,7
355	**700 648 970**	38.232	608	300	32,3
400	**700 648 971**	52.488	646	300	36,4
450	**700 648 972**	71.685	689	300	41,0

table continued next page

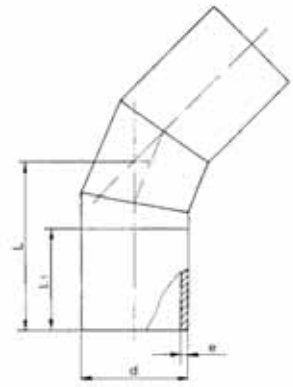
d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
500	**700 648 973**	78.408	783	350	45,5
560	**700 648 974**	104.490	835	350	51,0
630	**700 648 975**	140.940	896	350	57,3



Bend 60° PE100 S8/SDR17.6

- For IR, butt- and electro fusion
- Reduction factor = 0,8

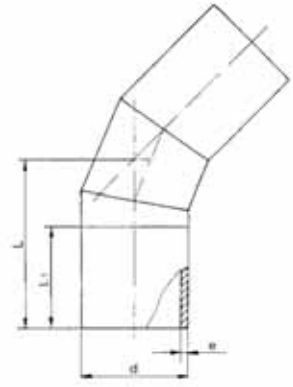
d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	**700 648 976**	0.909	245	150	6,3
125	**700 648 977**	1.283	258	150	7,1
140	**700 648 978**	1.737	271	150	8,0
160	**700 648 979**	2.406	288	150	9,1
180	**700 648 980**	3.261	305	150	10,2
200	**700 648 981**	4.330	323	150	11,4
225	**700 648 982**	5.881	345	150	12,8
250	**700 648 983**	9.356	466	250	14,2
280	**700 648 984**	12.563	492	250	15,9
315	**700 648 985**	18.711	576	300	17,9
355	**700 648 986**	25.233	608	300	20,1
400	**700 648 987**	34.642	646	300	22,7
450	**700 648 988**	47.312	689	300	25,5
500	**700 648 989**	51.749	783	350	28,3
560	**700 648 990**	68.963	835	350	31,7
630	**700 648 991**	93.020	896	350	35,7



Bend 45° PE100 S5/SDR11

- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	**700 648 992**	1.115	218	150	10,0
125	**700 648 993**	1.575	228	150	11,4
140	**700 648 994**	2.132	237	150	12,8
160	**700 648 995**	2.952	249	150	14,6
180	**700 648 996**	4.002	262	150	16,4
200	**700 648 997**	5.314	274	150	18,2
225	**700 648 998**	7.217	290	150	20,5
250	**700 648 999**	11.482	412	250	22,8
280	**700 649 000**	15.418	424	250	25,5
315	**700 649 001**	22.964	498	300	28,7
355	**700 649 002**	30.968	520	300	32,3
400	**700 649 003**	42.515	548	300	36,4
450	**700 649 004**	58.065	580	300	41,0
500	**700 649 005**	63.510	665	350	45,5
560	**700 649 006**	84.637	698	350	51,0
630	**700 649 007**	114.161	741	350	57,3



Bend 45° PE100 S8/SDR17.6

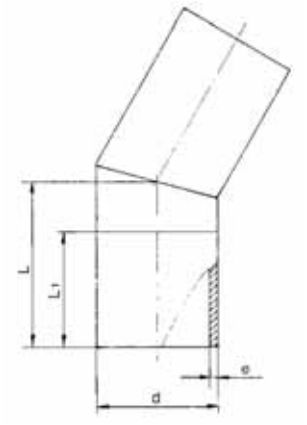
- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	**700 649 008**	22.864	218	150	6,3
125	**700 649 009**	31.226	228	150	7,1
140	**700 649 010**	34.155	237	150	8,0
160	**700 649 011**	2.200	249	150	9,1
180	**700 649 012**	61.393	262	150	10,2
200	**700 649 013**	0.736	274	150	11,4
225	**700 649 014**	5.180	290	150	12,8
250	**700 649 015**	8.990	412	250	14,2
280	**700 649 016**	11.440	424	250	15,9

table continued next page

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
315	**700 649 017**	21.400	498	300	17,9
355	**700 649 018**	3.508	520	300	20,1
400	**700 649 019**	29.810	548	300	22,7
450	**700 649 020**	7.578	580	300	25,5
500	**700 649 021**	10.176	665	350	28,3
560	**700 649 022**	15.156	698	350	31,7
630	**700 649 023**	20.439	741	350	35,7

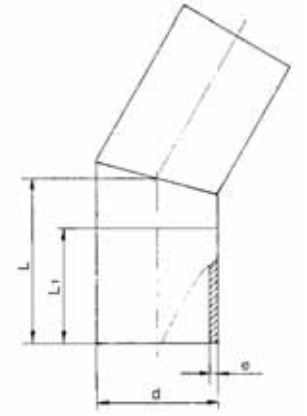
Bend 30° PE100 S5/SDR11



- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	**700 649 024**	1.280	194	150	10,0
125	**700 649 025**	8.326	200	150	11,4
140	**700 649 026**	2.150	206	150	12,8
180	**700 649 028**	3.830	222	150	16,4
200	**700 649 029**	30.831	230	150	18,2
225	**700 649 030**	6.650	241	150	20,5
250	**700 649 031**	46.057	350	250	22,8
280	**700 649 032**	61.377	362	250	25,5
315	**700 649 033**	82.788	428	300	28,7
355	**700 649 034**	0.993	443	300	32,3
400	**700 649 035**	1.401	461	300	36,4
450	**700 649 036**	1.898	481	300	41,0
500	**700 649 037**	2.628	551	350	45,5
560	**700 649 038**	3.562	575	350	51,0
630	**700 649 039**	4.730	603	350	57,3

Bend 30° PE100 S8/SDR17.6

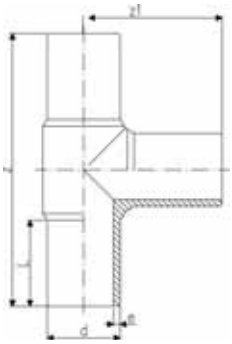


- For IR, butt- and electro fusion
- Reduction factor = 0,8

d [mm]	Code	kg	L [mm]	L1 [mm]	e [mm]
110	**700 649 040**	0.840	194	150	6,3
125	**700 649 041**	3.144	200	150	7,1
140	**700 649 042**	1.340	206	150	8,0
160	**700 649 043**	1.930	214	150	9,1
180	**700 649 044**	2.490	222	150	10,2
200	**700 649 045**	13.490	230	150	11,4
225	**700 649 046**	4.320	241	150	12,8
250	**700 649 047**	5.495	350	250	14,2
280	**700 649 048**	7.380	362	250	15,9
315	**700 649 049**	14.530	428	300	17,9
355	**700 649 050**	14.822	443	300	20,1
400	**700 649 051**	20.349	461	300	22,7
450	**700 649 052**	27.791	481	300	25,5
500	**700 649 053**	30.398	551	350	28,3
560	**700 649 054**	40.509	575	350	31,7
630	**700 649 055**	54.640	603	350	35,7

53 20 10

Tee 90° equal PE100 SDR11



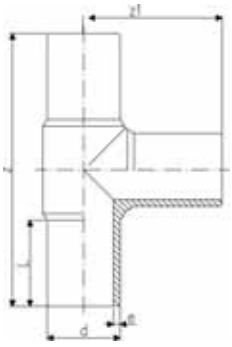
- Long spigot version
- 10 bar Gas / 16 bar Water

* With welded pipes
* Segment welded and reinforced
* No pressure reduction factor

d [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	e [mm]	PF
20	**753 201 006**	0.038	150	75	52	3,0	2 51 301 001
25	**753 201 007**	0.054	160	80	52	3,0	2 51 301 001
32	**753 201 008**	0.077	170	85	54	3,0	2 51 301 001
40	**753 201 009**	0.130	190	95	57	3,7	2 51 301 001
50	**753 201 010**	0.214	210	105	63	4,6	2 51 301 001
63	**753 201 011**	0.376	230	115	65	5,8	2 51 301 001
75	**753 201 012**	0.599	264	132	72	6,8	2 51 301 001
90	**753 201 013**	1.021	300	150	81	8,2	2 51 301 001
110	**753 201 014**	1.612	330	165	86	10,0	2 51 301 001
125	**753 201 015**	2.420	366	183	92	11,4	2 51 301 001
140	**753 201 016**	3.090	393	193	92	12,7	2 51 301 001
160	**753 201 017**	4.403	420	210	102	14,6	2 51 301 001
180	**753 201 018**	6.014	460	230	107	16,4	2 51 301 001
200	**753 201 019**	8.480	500	250	117	18,2	2 51 301 001
225	**753 201 020**	11.507	540	270	122	20,5	2 51 301 001
250	**753 201 001**	14.099	575	288	130	22,7	2 51 301 002
280	**753 200 902**	18.670	615	308	139	25,4	2 51 301 002
315	**753 200 903**	26.150	695	346	150	28,6	2 51 301 002
355	**753 200 904**	39.800	818	410	165	32,3	2 51 301 008
400	**753 200 905**	42.495	910	455	180	36,4	2 51 301 008
450	**753 200 906**	77.300	970	485	195	40,9	2 51 301 008
500	**753 200 907**	101.000	1060	530	215	45,5	2 51 301 008
* 560	**753 200 908**	153.300	1510	755	230	50,9	2 51 301 008
* 630	**753 200 909**	205.500	1630	815	250	57,3	2 51 301 008
* 710	**753 201 120**	318.698	1720	860	450	64,5	2 51 301 008
* 800	**753 201 121**	409.142	1780	890	450	72,6	2 51 301 008

53 20 08

Tee 90° equal PE100 SDR17/17,6



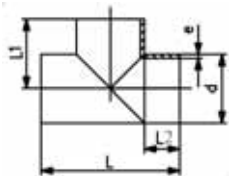
- Long spigot version
- 5 bar Gas / 10 bar Water

* Segment welded and reinforced
* With welded pipes
* No pressure reduction factor

d [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	e [mm]	PF
90	**753 200 813**	0.777	300	150	80	5,4	2 51 301 001
110	**753 200 814**	1.231	330	165	86	6,6	2 51 301 001
125	**753 200 815**	1.690	366	183	92	7,4	2 51 301 001
140	**753 200 816**	2.202	396	196	92	8,3	2 51 301 001
160	**753 200 817**	3.201	428	214	104	9,5	2 51 301 001
180	**753 200 818**	4.287	460	230	105	10,7	2 51 301 001
200	**753 200 819**	5.889	500	250	115	11,9	2 51 301 001
225	**753 200 820**	7.886	540	270	122	13,4	2 51 301 001
250	**753 200 821**	10.000	575	288	130	14,8	2 51 301 002
280	**753 200 802**	13.350	615	308	139	16,6	2 51 301 002
315	**753 200 803**	17.985	695	346	150	18,7	2 51 301 002
355	**753 200 804**	25.850	818	410	165	21,1	2 51 301 008
400	**753 200 805**	35.015	910	455	180	23,7	2 51 301 008
450	**753 200 806**	56.000	970	485	195	26,7	2 51 301 008
500	**753 200 807**	71.000	1060	530	215	29,7	2 51 301 008
* 560	**753 200 808**	99.200	1510	755	230	33,2	2 51 301 008
* 630	**753 200 809**	132.700	1630	815	250	37,4	2 51 301 008
* 710	**753 201 920**	219.870	1720	860	450	42,1	2 51 301 008
* 800	**753 201 921**	281.495	1780	890	450	47,4	2 51 301 008

53 20 08

Tee 90° equal PE100 SDR17/17,6



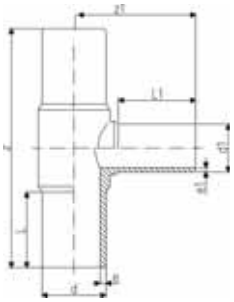
Model:

- Long spigot
- Conventional butt-welding according to DVS 2207 part 1
- Production process: segment welded
- Does not conform to pressure rating. Pressure reduction factor of 0.5
- 5 bar water

d [mm]	Code	kg	L [mm]	L1 [mm]	L2 [mm]	e [mm]
710	**753 202 810**	158.180	1410	705	350	42.1
800	**753 202 811**	210.302	1500	750	350	47.4
900	**753 202 812**	302.118	1700	850	400	53.3
1000	**753 202 813**	457.054	2040	1020	520	59.3

53 20 10

Tee 90° reduced moulded PE100 SDR11

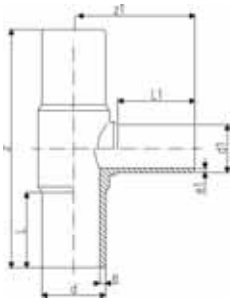


- Long spigot version
- 10 bar Gas / 16 bar Water

d [mm]	d1 [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
63	50	**753 201 044**	0.305	215	103	63	56	5.8	4.6
75	32	**753 201 045**	0.519	256	108	70	46	6.8	2.9
75	50	**753 201 046**	0.531	253	113	70	56	6.8	4.6
75	63	**753 201 047**	0.554	255	117	70	63	6.8	5.8
90	50	**753 201 027**	0.794	280	117	79	55	8.2	4.6
90	63	**753 201 029**	0.775	280	123	79	63	8.2	5.8
90	75	**753 201 030**	0.779	272	138	73	68	8.2	6.8
110	63	**753 201 028**	1.409	320	147	87	63	10.0	5.8
110	75	**753 201 031**	1.221	309	151	82	70	10.0	6.8
110	90	**753 201 032**	1.275	320	158	86	79	10.0	8.2
125	90	**753 201 048**	1.717	340	170	112	92	11.4	8.2
125	110	**753 201 033**	1.909	341	170	90	83	11.4	10.0
160	63	**753 201 034**	2.680	416	176	98	65	14.6	5.8
160	75	**753 201 035**	2.676	343	180	98	74	14.6	6.8
160	90	**753 201 036**	2.775	412	188	101	79	14.6	8.2
160	110	**753 201 037**	3.300	412	195	101	82	14.6	10.0
180	90	**753 201 049**	4.410	420	200	136	97	16.4	8.2
180	110	**753 201 050**	4.379	430	206	130	101	16.4	10.0
180	160	**753 201 038**	4.715	411	205	105	94	16.4	14.6
200	63	**753 201 073**	7.300	500	190	122	63	18.2	5.8
200	90	**753 201 074**	9.730	500	207	122	79	18.2	8.2
200	110	**753 201 075**	7.120	500	215	122	82	18.2	10.0
200	160	**753 201 076**	9.730	500	234	122	98	18.2	14.6
225	75	**753 201 039**	9.880	555	215	120	70	20.5	6.8
225	90	**753 201 040**	6.633	558	226	120	80	20.5	8.2
225	110	**753 201 041**	10.010	558	235	120	82	20.5	10.0
225	160	**753 201 042**	8.095	560	253	120	98	20.5	14.6
225	180	**753 201 043**	9.375	560	280	120	105	20.5	16.4
250	110	**753 201 078**	11.820	575	242	130	82	22.7	10.0
250	160	**753 201 079**	12.302	575	261	127	98	22.7	14.6
315	110	**753 201 051**	15.300	695	277	150	82	28.6	10.0
315	160	**753 201 052**	22.998	695	296	150	102	28.6	14.6
315	225	**753 201 053**	20.011	650	335	170	145	28.6	20.5
315	250	**753 201 054**	24.243	695	325	150	130	28.6	22.7

53 20 08

Tee 90° reduced, moulded PE100 SDR17/17,6

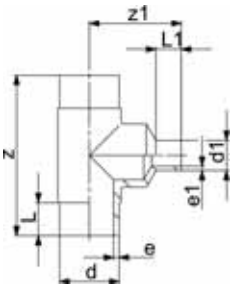


- Long spigot version
- 5 bar Gas / 10 bar Water

d [mm]	d1 [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	e1 [mm]
90	50	**753 201 827**	0.630	275	117	79	55	5.4	3,0	3.0
90	63	**753 200 829**	0.560	275	123	79	63	5.4	3,8	3.8
90	75	**753 200 830**	0.593	272	139	74	71	5.4	4,5	4.5
110	63	**753 200 828**	1.010	318	147	82	63	6.6	3,8	3.8
110	75	**753 200 831**	0.891	315	152	84	70	6.6	4,5	4.5
110	90	**753 200 832**	0.941	318	158	82	79	6.6	5,4	5.4
125	110	**753 200 833**	1.399	334	168	84	83	7.4	6,6	6.6
160	63	**753 200 834**	1.950	330	130	86	63	9.5	3,8	3.8
160	75	**753 200 835**	1.932	343	180	98	74	9.5	4,5	4.5
160	90	**753 200 836**	1.972	410	188	98	79	9.5	5,4	5.4
160	110	**753 200 837**	2.716	410	195	98	82	9.5	6,6	6.6
180	90	**753 200 844**	3.250	422	204	134	97	10.7	5,4	5.4
180	160	**753 200 838**	3.557	411	205	105	94	10.7	9,5	9.5
200	63	**753 201 873**	6.800	500	190	122	63	11.9	3,8	3.8
200	90	**753 201 874**	6.900	500	207	122	79	11.9	5,4	5.4
200	110	**753 201 875**	5.097	500	215	122	82	11.9	6,6	6.6
200	160	**753 201 876**	7.400	500	234	122	98	11.9	9,5	9.5
225	75	**753 200 839**	7.128	555	277	120	70	13.4	4,5	4.5
225	90	**753 200 840**	4.732	555	226	127	80	13.4	5,4	5.4
225	110	**753 200 841**	4.700	555	235	127	82	13.4	6,6	6.6
225	160	**753 200 842**	5.922	555	253	127	98	13.4	9,5	9.5
225	180	**753 200 843**	7.211	550	280	120	105	13.4	10,7	10.7
250	110	**753 201 878**	9.400	575	242	130	82	14.8	6,6	6.6
250	160	**753 201 879**	9.800	575	261	130	98	14.8	9,5	9.5
315	110	**753 200 851**	15.621	695	277	150	82	18.7	6,6	6.6
315	160	**753 200 852**	12.200	695	296	150	102	18.7	9,5	9.5
315	225	**753 200 853**	14.869	650	335	170	145	18.7	13,4	13.4
315	250	**753 200 854**	15.500	695	325	150	130	18.7	14,8	14.8

53 20 10

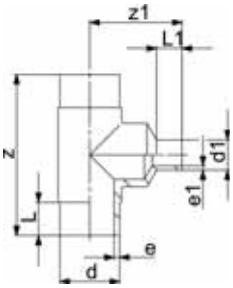
Tee 90° reduced with welded reducer



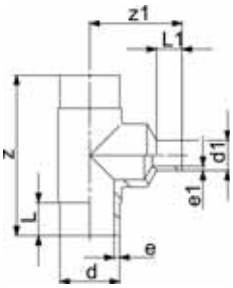
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water

d [mm]	d1 [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
25	20	**753 201 002**	0.053	160		52	52	3,0	3,0
32	20	**753 201 003**	0.094	170	105	54	52	3,0	3,0
32	25	**753 201 004**	0.098	170	110	54	52	3,0	3,0
40	20	**753 201 005**	0.124	190	120	57	52	3,7	3,0
40	25	**753 201 069**	0.160	190	120	57	52	3,7	3,0
40	32	**753 201 070**	0.160	190	120	57	52	3,7	3,0
50	20	**753 201 072**	0.252	210	140	63	52	4,6	3,0
50	25	**753 201 077**	0.260	210	130	63	52	4,6	3,0
50	32	**753 201 080**	0.207	210	130	63	53	4,6	3,0
50	40	**753 201 081**	0.224	210	130	63	57	4,6	3,7
63	32	**753 201 082**	0.359	230	140	65	53	5,8	3,0
63	40	**753 201 116**	0.480	230	145	65	57	5,8	3,7
75	40	**753 201 084**	0.603	264	180	72	57	6,8	3,7
125	63	**753 201 085**	2.359	366	225	92	61	11,4	5,8
125	75	**753 201 086**	2.434	366	235	92	72	11,4	6,8
140	75	**753 201 087**	3.038	396	230	92	70	12,7	6,8
140	90	**753 201 089**	3.092	396	235	92	79	12,7	8,2
140	110	**753 201 090**	3.600	396	240	92	82	12,7	10,0
140	125	**753 201 091**	4.170	396	240	92	90	12,7	11,4
160	125	**753 201 092**	4.544	420	265	102	92	14,6	11,4
160	140	**753 201 093**	5.895	420	270	102	96	14,6	12,7
180	125	**753 201 094**	6.111	460	285	107	92	16,4	11,4
180	140	**753 201 095**	6.317	460	295	107	110	16,4	12,7
200	125	**753 201 096**	8.424	500	295	117	92	18,2	11,4
200	140	**753 201 097**	10.570	500	310	117	110	18,2	12,7

table continued next page



d [mm]	d1 [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
200	180	**753 201 098**	9.031	500	310	117	110	18,2	16,4
225	125	**753 201 099**	11.260	540	320	122	92	20,5	11,4
225	140	**753 201 100**	14.574	540	335	122	110	20,5	12,7
225	200	**753 201 101**	14.925	540	340	122	117	20,5	18,2
250	180	**753 201 102**	14.327	576	350	130	105	22,7	16,4
250	200	**753 201 103**	19.220	576	360	130	112	22,7	18,2
250	225	**753 201 104**	15.240	576	390	130	120	22,7	20,5
280	200	**753 201 105**	24.520	616	410	139	112	25,4	18,2
280	225	**753 201 106**	24.755	616	420	139	120	25,4	20,5
280	250	**753 201 107**	25.210	616	420	139	130	25,4	22,7
315	200	**753 201 108**	33.950	690	470	150	134	28,6	18,2
315	280	**753 201 109**	34.950	690	480	150	139	28,6	25,4
355	250	**753 201 110**	48.900	818	530	165	130	32,3	22,7
355	280	**753 201 111**	49.300	818	480	165	139	32,3	25,4
355	315	**753 201 112**	49.690	818	480	165	150	32,3	28,6
400	280	**753 201 113**	52.915	910	530	180	139	36,4	25,4
400	315	**753 201 114**	53.625	910	580	180	150	36,4	28,6
400	355	**753 201 115**	54.075	910	675	180	165	36,4	32,3



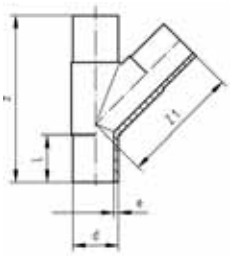
Tee 90° reduced with welded reducer PE100 SDR17/17,6

- 5 bar Gas / 10 bar Water

d [mm]	d1 [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
125	63	**753 200 801**	2.115	366	215	92	61	7.4	3.8
125	75	**753 200 810**	1.806	366	235	92	72	7.4	4.5
125	90	**753 200 811**	1.712	366	235	92	80	7.4	5.4
140	75	**753 200 812**	2.820	396	240	92	70	8.3	4.5
140	90	**753 200 822**	2.211	396	240	92	78	8.3	5.4
140	110	**753 200 823**	2.266	396	235	92	82	8.3	6.6
140	125	**753 200 824**	2.317	396	240	92	87	8.3	7.4
160	125	**753 200 825**	3.311	428	265	104	90	9.5	5.4
160	140	**753 200 826**	3.416	428	280	104	96	9.5	8.3
180	110	**753 200 827**	4.410	460	285	105	92	10.7	6.6
180	125	**753 200 845**	4.460	460	285	105	90	10.7	7.4
180	140	**753 200 846**	4.483	460	305	105	110	10.7	8.3
200	125	**753 200 847**	5.886	500	310	115	92	11.9	7.4
200	140	**753 200 848**	7.200	500	315	115	110	11.9	8.3
200	180	**753 200 849**	6.900	500	315	115	110	11.9	10.7
225	125	**753 200 850**	7.937	540	320	122	92	13.4	7.4
225	140	**753 200 855**	8.780	540	345	122	110	13.4	8.3
225	200	**753 200 856**	9.064	540	335	122	115	13.4	11.9
250	180	**753 200 857**	15.000	576	340	130	105	14.8	10.7
250	200	**753 200 858**	15.440	576	350	130	112	14.8	11.9
250	225	**753 200 859**	15.620	576	370	130	120	14.8	13.4
280	200	**753 200 860**	19.200	616	400	139	112	16.6	11.9
280	225	**753 200 861**	19.500	616	400	139	120	16.6	13.4
280	250	**753 200 862**	20.120	616	400	139	130	16.6	14.8
315	200	**753 200 863**	18.700	690	480	150	134	18.7	11.9
315	280	**753 200 864**	26.940	690	480	150	139	18.7	16.6
355	250	**753 200 865**	35.770	818	480	165	130	21.1	14.8
355	280	**753 200 866**	36.330	818	480	165	139	21.1	16.6
355	315	**753 200 867**	37.740	818	490	165	150	21.1	18.7
400	280	**753 200 868**	48.330	910	540	180	139	23.7	16.6
400	315	**753 200 869**	48.880	910	580	180	150	23.7	18.7
400	355	**753 200 870**	50.020	910	675	180	165	23.7	21.1

53 25 10

Tee 45° equal PE100 SDR11

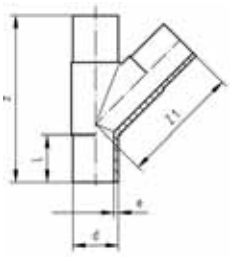


- Long spigot version
- 10 bar Gas / 16 bar Water

d [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	e [mm]
63	**753 251 011**	0.463	255	158	63	5,8
75	**753 251 012**	0.800	301	190	70	6,8
90	**753 251 013**	1.373	368	234	79	8,2
110	**753 251 014**	1.800	395	260	82	10,0

53 25 10

Tee 45° equal PE100 SDR17/17,6



- 5 bar Gas / 10 bar Water

d [mm]	Code	kg	z [mm]	z1 [mm]	L [mm]	e [mm]
90	**753 251 063**	0.800	368	234	79	5,4
110	**753 251 064**	1.400	395	260	82	6,6

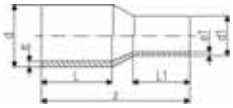
53 90 10

Reducer PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

d [mm]	d1 [mm]	Code	kg	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	PF
25	20	**753 901 038**	0.022	115	52	52	3,0	3,0	2 51 301 001
32	20	**753 901 042**	0.027	120	54	52	3,0	3,0	2 51 301 001
32	25	**753 901 041**	0.033	120	54	52	3,0	3,0	2 51 301 001
40	20	**753 901 048**	0.043	129	57	52	3,7	3,0	2 51 301 001
40	25	**753 901 047**	0.045	129	57	52	3,7	3,0	2 51 301 001
40	32	**753 901 046**	0.047	129	57	53	3,7	3,0	2 51 301 001
50	20	**753 901 055**	0.064	149	63	52	4,6	3,0	2 51 301 001
50	25	**753 901 054**	0.069	139	63	52	4,6	3,0	2 51 301 001
50	32	**753 901 053**	0.067	140	63	53	4,6	3,0	2 51 301 001
50	40	**753 901 052**	0.079	139	63	57	4,6	3,7	2 51 301 001
63	32	**753 901 060**	0.113	149	65	53	5,8	3,0	2 51 301 001
63	40	**753 901 059**	0.122	150	65	57	5,8	3,7	2 51 301 001
63	50	**753 901 058**	0.128	150	65	63	5,8	4,6	2 51 301 001
75	40	**753 901 063**	0.185	170	72	57	6,8	3,7	2 51 301 001
75	50	**753 901 064**	0.188	170	72	63	6,8	4,6	2 51 301 001
75	63	**753 901 065**	0.209	170	72	65	6,8	5,8	2 51 301 001
90	50	**753 901 072**	0.289	190	81	63	8,2	4,6	2 51 301 001
90	63	**753 901 071**	0.316	190	81	65	8,2	5,8	2 51 301 001
90	75	**753 901 070**	0.351	190	81	70	8,2	6,8	2 51 301 001
110	63	**753 901 078**	0.471	205	86	65	10,0	5,8	2 51 301 001
110	75	**753 901 077**	0.501	205	86	70	10,0	6,8	2 51 301 001
110	90	**753 901 076**	0.549	205	86	81	10,0	8,2	2 51 301 001
125	63	**753 901 083**	0.607	214	87	63	11,4	5,8	2 51 301 001
125	75	**753 901 082**	0.667	210	92	72	11,4	6,8	2 51 301 001
125	90	**753 901 081**	0.683	212	92	81	11,4	8,2	2 51 301 001
125	110	**753 901 080**	0.775	212	92	86	11,4	10,0	2 51 301 001
140	75	**753 901 086**	0.910	230	110	70	12,7	6,8	2 51 301 001
140	90	**753 901 087**	0.954	230	110	79	12,7	8,2	2 51 301 001
140	110	**753 901 084**	0.977	234	110	88	12,7	10,0	2 51 301 001
140	125	**753 901 085**	1.078	235	110	90	12,7	11,4	2 51 301 001
160	90	**753 901 088**	1.164	244	120	79	14,6	8,2	2 51 301 001
160	110	**753 901 090**	1.239	244	102	86	14,6	10,0	2 51 301 001
160	125	**753 901 089**	1.333	245	102	92	14,6	11,4	2 51 301 001
160	140	**753 901 032**	1.522	260	120	110	14,6	12,7	2 51 301 001
180	90	**753 901 073**	1.507	245	105	79	16,4	8,2	2 51 301 001
180	110	**753 901 074**	1.833	270	105	82	16,4	10,0	2 51 301 001
180	125	**753 901 091**	1.723	258	107	92	16,4	11,4	2 51 301 001
180	140	**753 901 075**	1.976	270	120	110	16,4	12,7	2 51 301 001
180	160	**753 901 033**	1.968	255	107	102	16,4	14,6	2 51 301 001
200	140	**753 901 066**	2.326	275	120	110	18,2	12,7	2 51 301 001
200	160	**753 901 092**	2.422	265	117	102	18,2	14,6	2 51 301 001
200	180	**753 901 034**	2.724	265	117	107	18,2	16,4	2 51 301 001
225	140	**753 901 067**	2.900	295	130	110	20,5	12,7	2 51 301 001
225	160	**753 901 096**	2.891	279	122	102	20,5	14,6	2 51 301 001
225	180	**753 901 095**	3.244	280	122	107	20,5	16,4	2 51 301 001
225	200	**753 901 094**	3.538	280	122	117	20,5	18,2	2 51 301 001
250	160	**753 901 000**	2.385	300	130	100	22,7	14,6	2 51 301 002
250	180	**753 901 068**	4.299	295	130	105	22,7	16,4	2 51 301 002
250	200	**753 901 001**	4.766	315	130	112	22,7	18,2	2 51 301 002
250	225	**753 901 002**	2.385	332	130	120	22,7	20,5	2 51 301 002
280	200	**753 901 098**	6.850	333	140	112	25,4	18,2	2 51 301 002
280	225	**753 901 099**	6.112	335	140	120	25,4	20,5	2 51 301 002
280	250	**753 901 003**	2.385	340	140	130	25,4	22,7	2 51 301 002
315	200	**753 901 004**	7.522	380	180	134	28,6	18,2	2 51 301 002
315	225	**753 901 097**	7.790	365	150	120	28,6	20,5	2 51 301 002
315	250	**753 901 005**	8.360	365	150	130	28,6	22,7	2 51 301 002
315	280	**753 901 012**	8.800	365	150	139	28,6	25,4	2 51 301 002
355	250	**753 901 013**	9.100	390	165	130	32,3	22,7	2 51 301 008
355	280	**753 901 014**	9.500	390	165	139	32,3	25,4	2 51 301 008
355	315	**753 901 015**	9.900	390	165	150	32,3	28,6	2 51 301 008
400	280	**753 901 016**	10.420	415	180	139	36,4	25,4	2 51 301 008
400	315	**753 901 017**	11.130	415	180	150	36,4	28,6	2 51 301 008

table continued next page



d [mm]	d1 [mm]	Code	kg	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	PF	
400	355	**753 901 018**	11.600	420	180	165	36,4	32,3	2 51 301 008	
450	280	**753 901 019**	16.200	389	195	139	40.9	25,4	2 51 301 008	
450	315	**753 901 020**	16.700	390	195	150	40.9	28,6	2 51 301 008	
450	355	**753 901 022**	17.500	393	195	164	40,9	32,3	2 51 301 008	
450	400	**753 901 024**	18.500	395	195	179	40,9	36,4	2 51 301 008	
500	315	**753 901 025**	21.900	422	212	150	45,5	28,6	2 51 301 008	
500	355	**753 901 026**	22.600	424	212	164	45,5	32,3	2 51 301 008	
500	400	**753 901 027**	23.600	426	212	179	45,5	36,4	2 51 301 008	
500	450	**753 901 029**	25.100	428	212	195	45,5	40,9	2 51 301 008	
560	355	**753 901 030**	30.100	459	230	164	50,9	32,3	2 51 301 008	
560	400	**753 901 039**	31.000	461	230	179	50,9	36,4	2 51 301 008	
560	450	**753 901 040**	32.400	463	230	195	50,9	40,9	2 51 301 008	
560	500	**753 901 043**	34.100	466	230	212	50,9	45,5	2 51 301 008	
630	400	**753 901 044**	41.900	502	250	179	57,3	36,4	2 51 301 008	
630	450	**753 901 045**	43.100	503	250	195	57,3	40,9	2 51 301 008	
630	500	**753 901 049**	44.700	506	250	212	57,3	45,5	2 51 301 008	
630	560	**753 901 050**	46.800	506	250	230	57,3	50,9	2 51 301 008	

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Reducer PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water

d [mm]	d1 [mm]	Code	kg	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	PF
90	63	**753 900 872**	0.224	182	79	70	5,4	3,8	2 51 301 001
90	75	**753 900 870**	0.234	185	79	70	5,4	4,5	2 51 301 001
110	63	**753 900 877**	0.326	185	82	63	6,6	3,8	2 51 301 001
110	90	**753 900 876**	0.333	205	85	80	6,6	5,4	2 51 301 001
125	63	**753 900 882**	0.610	200	87	63	7,4	3,8	2 51 301 001
125	90	**753 900 881**	0.461	215	90	80	7,4	5,4	2 51 301 001
125	110	**753 900 880**	0.507	215	90	85	7,4	6,6	2 51 301 001
140	75	**753 900 886**	0.560	230	112	70	8,3	4,5	2 51 301 001
140	90	**753 900 887**	0.642	230	112	79	8,3	5,4	2 51 301 001
140	110	**753 900 884**	0.715	230	112	82	8,3	6,6	2 51 301 001
140	125	**753 900 885**	0.754	235	115	87	8,3	7,4	2 51 301 001
160	90	**753 900 888**	0.752	248	120	85	9,5	5,4	2 51 301 001
160	110	**753 900 890**	0.930	245	100	85	9,5	6,6	2 51 301 001
160	125	**753 900 889**	0.930	245	100	90	9,5	7,4	2 51 301 001
160	140	**753 900 831**	0.995	260	120	110	9,5	8,3	2 51 301 001
180	90	**753 900 873**	1.010	237	105	79	10,7	5,4	2 51 301 001
180	110	**753 900 874**	1.600	270	120	92	10,7	6,6	2 51 301 001
180	125	**753 900 891**	1.165	255	105	90	10,7	7,4	2 51 301 001
180	140	**753 900 875**	1.720	270	120	110	10,7	8,3	2 51 301 001
180	160	**753 900 832**	2.100	255	105	100	10,7	9,5	2 51 301 001
200	140	**753 900 866**	1.800	275	120	110	11,9	8,3	2 51 301 001
200	160	**753 900 892**	1.664	265	115	100	11,9	9,5	2 51 301 001
200	180	**753 900 893**	2.580	265	115	105	11,9	10,7	2 51 301 001
225	140	**753 900 867**	2.021	280	120	100	13,4	8,3	2 51 301 001
225	160	**753 900 896**	2.020	280	120	100	13,4	9,5	2 51 301 001
225	180	**753 900 895**	2.240	280	120	105	13,4	10,7	2 51 301 001
225	200	**753 900 894**	2.237	280	120	115	13,4	11,9	2 51 301 001
250	160	**753 900 800**	2.850	290	130	100	14,8	9,5	2 51 301 002
250	180	**753 900 868**	3.100	295	130	105	14,8	10,7	2 51 301 002
250	200	**753 900 801**	3.210	302	130	112	14,8	11,9	2 51 301 002
250	225	**753 900 802**	2.385	332	162	120	14,8	13,4	2 51 301 002
280	200	**753 900 898**	3.800	333	140	112	16,6	11,9	2 51 301 002
280	225	**753 900 899**	4.100	335	140	120	16,6	13,4	2 51 301 002
280	250	**753 900 803**	4.352	340	140	130	16,6	14,8	2 51 301 002
315	200	**753 900 804**	5.390	380	180	134	18,7	11,9	2 51 301 002
315	225	**753 900 807**	6.200	365	150	120	18,7	13,4	2 51 301 002
315	250	**753 900 805**	6.420	365	150	130	18,7	14,8	2 51 301 002
315	280	**753 900 806**	5.940	365	150	140	18,7	16,6	2 51 301 002
355	250	**753 900 808**	7.082	390	165	130	21,1	14,8	2 51 301 008
355	280	**753 900 809**	6.728	390	165	140	21,1	16,6	2 51 301 008
355	315	**753 900 810**	7.240	390	165	150	21,1	18,7	2 51 301 008
400	280	**753 900 811**	7.930	415	180	140	23,7	16,6	2 51 301 008
400	315	**753 900 812**	9.949	415	180	150	23,7	18,7	2 51 301 008
400	355	**753 900 813**	9.620	420	180	165	23,7	21,1	2 51 301 008
450	280	**753 900 814**	11.500	389	195	140	26,7	16,6	2 51 301 008
450	315	**753 900 815**	11.805	390	195	150	26,7	18,7	2 51 301 008
450	355	**753 900 816**	11.900	393	195	164	26,7	21,1	2 51 301 008
450	400	**753 900 817**	12.964	395	195	179	26,7	23,7	2 51 301 008
500	315	**753 900 818**	15.500	422	212	150	29,7	18,7	2 51 301 008
500	355	**753 900 819**	15.700	424	212	164	29,7	21,1	2 51 301 008
500	400	**753 900 820**	16.200	426	212	179	29,7	23,7	2 51 301 008
500	450	**753 900 821**	17.000	428	212	195	29,7	26,7	2 51 301 008
560	355	**753 900 822**	21.400	459	230	164	33,2	21,1	2 51 301 008
560	400	**753 900 823**	21.700	461	230	179	33,2	23,7	2 51 301 008
560	450	**753 900 824**	22.300	463	230	195	33,2	26,7	2 51 301 008
560	500	**753 900 825**	23.200	466	230	212	33,2	29,7	2 51 301 008
630	400	**753 900 826**	29.700	502	250	179	37,4	23,7	2 51 301 008
630	450	**753 900 827**	30.100	503	250	195	37,4	26,7	2 51 301 008
630	500	**753 900 828**	30.800	506	250	212	37,4	29,7	2 51 301 008
630	560	**753 900 829**	31.900	506	250	230	37,4	33,3	2 51 301 008
710	500	**753 900 833**	58.796	790	300	300	42,1	29,7	2 51 301 008
710	560	**753 900 834**	60.578	770	300	300	42,1	33,2	2 51 301 008

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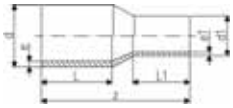

d [mm]	d1 [mm]	Code	kg	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	PF
710	630	**753 900 835**	62.448	740	300	300	42,1	37,4	2 51 301 008
800	560	**753 900 836**	75.842	800	300	300	47,4	33,2	2 51 301 008
800	630	**753 900 837**	78.255	780	300	300	47,4	37,4	2 51 301 008
800	710	**753 900 838**	80.504	750	300	300	47,4	42,1	2 51 301 008
900	630	**753 900 839**	99.282	820	300	300	53,3	37,4	2 51 301 008
900	710	**753 900 840**	100.908	790	300	300	53,3	42,1	2 51 301 008
900	800	**753 900 841**	103.578	760	300	300	53,3	47,4	2 51 301 008
1000	710	**753 900 842**	124.232	820	300	300	59,3	42,1	2 51 301 008
1000	800	**753 900 843**	125.277	780	300	300	59,3	47,4	2 51 301 008
1000	900	**753 900 844**	126.638	740	300	300	59,3	53,3	2 51 301 008

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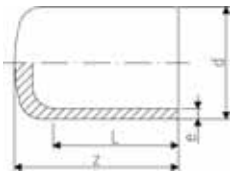
Cap PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

Note:

* Fabricated fitting made from pipe



d [mm]	Code	kg	z [mm]	L [mm]	e [mm]	PF
20	**753 961 006**	0.010	52	52	3,0	2 51 301 001
25	**753 961 007**	0.015	52	52	3,0	2 51 301 001
32	**753 961 008**	0.020	54	54	3,0	2 51 301 001
40	**753 961 009**	0.033	57	57	3,7	2 51 301 001
50	**753 961 010**	0.054	63	63	4,6	2 51 301 001
63	**753 961 011**	0.086	65	65	5,8	2 51 301 001
75	**753 961 012**	0.146	80	72	6,8	2 51 301 001
90	**753 961 013**	0.240	90	81	8,2	2 51 301 001
110	**753 961 014**	0.373	98	86	10,0	2 51 301 001
125	**753 961 015**	0.546	105	92	11,4	2 51 301 001
140	**753 961 016**	0.727	136	92	12,7	2 51 301 001
160	**753 961 017**	1.034	120	102	14,6	2 51 301 001
180	**753 961 018**	1.351	128	107	16,4	2 51 301 001
200	**753 961 019**	1.845	138	115	18,2	2 51 301 001
225	**753 961 020**	2.514	148	122	20,5	2 51 301 001
250	**753 961 021**	3.927	205	130	22,7	2 51 301 002
280	**753 960 922**	8.045	235	139	25,4	2 51 301 002
315	**753 960 923**	6.861	255	150	28,6	2 51 301 002
355	**753 960 924**	9.780	280	165	32,3	2 51 301 008
400	**753 960 925**	13.370	310	180	36,4	2 51 301 008
* 450	**753 960 926**	20.800	275	195	40,9	2 51 301 008
* 500	**753 960 927**	28.400	297	212	45,5	2 51 301 008
* 560	**753 960 928**	39.100	325	230	50,9	2 51 301 008
* 630	**753 960 929**	59.700	355	250	57,3	2 51 301 008

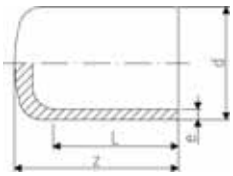
53 96 08

Cap PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water

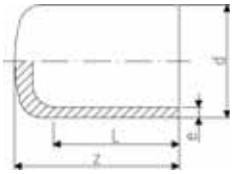
Note:

* Fabricated fitting made from pipe



d [mm]	Code	kg	z [mm]	L [mm]	e [mm]	PF
50	**753 960 810**	0.036	70	55	3,0	2 51 301 001
63	**753 960 811**	0.058	82	63	3,8	2 51 301 001
75	**753 960 812**	0.105	92	70	4,5	2 51 301 001
90	**753 960 813**	0.214	90	81	5,4	2 51 301 001
110	**753 960 814**	0.272	98	86	6,6	2 51 301 001
125	**753 960 815**	0.487	105	92	7,4	2 51 301 001
140	**753 960 816**	0.481	136	92	8,3	2 51 301 001
160	**753 960 817**	0.920	120	102	9,5	2 51 301 001
180	**753 960 818**	1.216	128	107	10,7	2 51 301 001
200	**753 960 819**	1.687	138	115	11,9	2 51 301 001
225	**753 960 820**	2.265	148	122	13,4	2 51 301 001
250	**753 960 821**	2.547	205	130	14,8	2 51 301 002

table continued next page



d [mm]	Code	kg	z [mm]	L [mm]	e [mm]	PF
280	**753 960 822**	3.523	235	139	16,6	2 51 301 002
315	**753 960 823**	4.758	255	150	18,7	2 51 301 002
355	**753 960 824**	6.510	280	165	21,1	2 51 301 008
400	**753 960 825**	9.347	310	180	23,7	2 51 301 008
* 450	**753 960 826**	17.798	265	195	26,7	2 51 301 008
* 500	**753 960 827**	21.400	287	212	29,7	2 51 301 008
* 560	**753 960 828**	29.400	310	230	33,2	2 51 301 008
* 630	**753 960 829**	41.400	340	250	37,4	2 51 301 008
* 710	**753 960 830**	53.950	310	190	42,1	2 51 301 008
* 800	**753 960 831**	73.281	320	190	47,4	2 51 301 008
* 900	**753 960 832**	98.923	330	190	53,5	2 51 301 008
* 1000	**753 960 833**	123.925	340	190	59,3	2 51 301 008

Transition fittings PE/steel

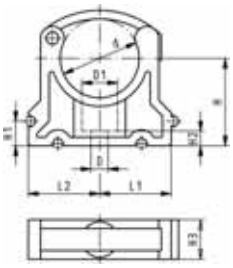
- **PE 100 SDR 11** (ISO S5)
- 6 bar Gas / 16 bar Water
- Electrofusion weldable
- Steel pipe acc. to EN 10208-1, PE coated for corrosion resistance

* Steel pipe without plastic shroud

d [mm]	d1 [inch]	Code	kg	d [mm]	L [mm]	L1 [mm]	L2 [mm]
* 20	½	**775 641 502**	0.450	20	427	35	41
25	¾	**775 641 507**	0.658	25	462	35	41
32	1	**775 641 510**	0.988	32	462	35	44
40	1 ¼	**775 641 514**	1.208	40	470	35	49
50	1 ½	**775 641 518**	1.355	50	475	35	55
63	2	**775 641 524**	2.011	63	480	35	63
75	2 ½	**775 641 632**	2.983	75	545	35	70
90	3	**775 641 636**	3.762	90	562	45	79
110	3	**775 641 640**	4.381	110	580	45	82
110	4	**775 641 641**	6.633	110	580	45	82
125	4	**775 641 645**	6.833	125	584	45	87
160	6	**775 641 655**	12.406	160	607	45	98
180	6	**775 641 659**	11.935	180	605	45	105
200	8	**775 642 664**	19.647	200	615	45	112
225	8	**775 642 669**	20.154	225	620	45	120
250	8	**775 642 665**	21.354	250	640	45	129
250	10	**775 642 666**	30.000	250	645	45	129
280	10	**775 642 673**	31.000	280	637	45	139
315	12	**775 642 672**	35.000	315	730	45	150
355	12	**775 642 675**	49.000	355	732	45	164
400	16	**775 642 678**	94.000	400	770	45	179

Pipe Clips

KLIP-IT pipe clip type 061H PP metric

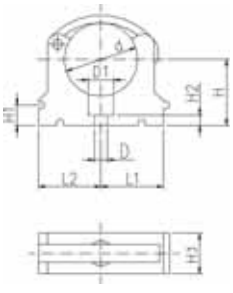


Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- **Minimum order quantity: standard packagings SP**
- d16 - d63: height designed for Ball Valve Type 546 und 543
- * d16 to d32 without bracket

d [mm]	Code	D [mm]	D1 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	HoH +/- 2mm [mm]	SC
* 16	**167 061 035**	6	11	14	17	27	10	6	16	17.0	M5
* 20	**167 061 036**	6	11	17	19	27	10	6	16	21.4	M5
* 25	**167 061 037**	6	11	19	22	30	10	6	16	26.9	M5
* 32	**167 061 038**	6	11	24	27	36	10	6	16	36.7	M5
40	**167 061 039**	7	14	34	34	44	10	7	22	44.4	M6
50	**167 061 040**	7	14	37	37	51	10	7	22	52.3	M6
63	**167 061 041**	9	17	45	45	64	10	10	25	66.7	M8

KLIP-IT Pipe Clips Type 061, PP metric

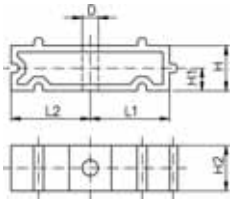


Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- d16 - d63: Height designed for Ball Valve Type 546 and 543
- **Minimum order quantity: standard packagings SP**

d [mm]	d [inch]	Code	D [mm]	D1 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	SC
* 10		**167 061 003**	5	8	11	14	20	10	6	12	M4
* 12		**167 061 004**	5	8	11	14	21	10	6	12	M5
* 16		**167 061 035**	6	11	14	17	27	10	6	16	M5
* 20		**167 061 036**	6	11	17	19	27	10	6	16	M5
* 25		**167 061 037**	6	11	19	22	30	10	6	16	M5
* 32		**167 061 038**	6	11	24	27	36	10	6	16	M5
40		**167 061 039**	7	14	34	34	44	10	7	22	M6
50		**167 061 040**	7	14	37	37	51	10	7	22	M6
63		**167 061 041**	9	17	45	45	64	10	10	25	M8
75	2 ½	**167 061 012**	9	17	52	52	58	10	10	25	M8
90	3	**167 061 013**	9	17	65	65	65	10	10	28	M8
110	4	**167 061 014**	9	17	79	79	75	10	10	28	M8
125		**167 061 015**	9	17	88	88	90	10	10	32	M8
140	5	**167 061 016**	9	17	98	98	110	10	10	32	M8
160		**167 061 017**	9	17	109	109	108	10	10	32	M8

KLIP-IT spacer type 061 PP



Model:

- For pipe clips Type 061/061H, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**

d [mm]	Inch [inch]	Code	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	HoH +/- 2mm [mm]	SC
10 - 12	⅛ - ¼	**167 061 153**	5	11	14	20	10	12	1.0	M4
16	⅜	**167 061 155**	6	14	17	20	10	16	17.0	M5
20	½	**167 061 156**	6	17	19	20	10	16	21.4	M5
25	¾	**167 061 157**	6	19	22	20	10	16	26.9	M5
32	1	**167 061 158**	6	24	27	20	10	16	36.7	M5

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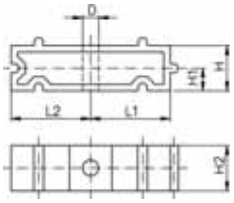
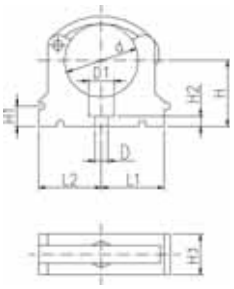


d [mm]	Inch [inch]	Code	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	HoH +/- 2mm [mm]	SC
40	1 ¼	**167 061 159**	7	34	34	20	10	22	44.4	M6
50	1 ½	**167 061 160**	7	37	37	20	10	22	52.3	M6
63	2	**167 061 161**	9	45	45	20	10	25	66.7	M8
75	2 ½	**167 061 162**	9	52	52	20	10	25	81.2	M8
90	3	**167 061 163**	9	65	65	20	10	28	100.0	M8
110	4	**167 061 164**	9	79	79	20	10	28	127.3	M8
125	4 ½	**167 061 165**	9	88	88	20	10	32	142.9	M8
140	5	**167 061 166**	9	98	98	20	10	32	161.4	M8
160	6	**167 061 167**	9	109	109	20	10	32	185.1	M8

KLIP-IT pipe clip type 061 PE metric

Model:

- Material: Clip PE and safety clip PP black, bolts galvanized
- **Minimum order quantity: standard packaging SP**
- Height not designed for ball valve 546 and 543. Please use spacer 73 06 11.



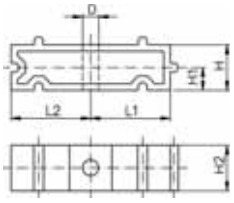
d [mm]	Code	D [mm]	D1 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	HoH +/- 2mm [mm]	SC
* 10	**173 061 003**	5	8	11	14	20	10	6	12	1.0	M4
* 12	**173 061 004**	5	8	11	14	21	10	6	12	1.0	M5
* 16	**173 061 005**	6	11	14	17	23	10	6	16	17.0	M5
* 20	**173 061 006**	6	11	17	19	25	10	6	16	21.4	M5
* 25	**173 061 007**	6	11	19	22	28	10	6	16	26.9	M5
* 32	**173 061 008**	6	11	24	27	31	10	6	16	36.7	M5
40	**173 061 009**	7	14	34	34	35	10	7	22	44.4	M6
50	**173 061 010**	7	14	37	37	40	10	7	22	52.3	M6
63	**173 061 011**	9	17	45	45	52	10	10	25	66.7	M8
75	**173 061 012**	9	17	52	52	58	10	10	25	81.2	M8
90	**173 061 013**	9	17	65	65	65	10	10	28	100.0	M8
110	**173 061 014**	9	17	79	79	75	10	10	28	127.3	M8
125	**173 061 015**	9	17	88	88	90	10	10	32	142.9	M8
140	**173 061 016**	9	17	98	98	110	10	10	32	161.4	M8
160	**173 061 017**	9	17	109	109	108	10	10	32	185.1	M8

73 06 11

KLIP-IT spacer type 061 PE

Model:

- For pipe clips Type 061, PE black, UV resistant
- **Minimum order quantity: standard packaging SP**

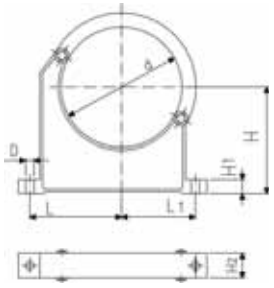


d [mm]	Inch	Code	D [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC
	1/8-1/4	**173 061 153**	5	11	14	20	10	12	M4
16	3/8	**173 061 155**	6	14	17	20	10	16	M5
20	1/2	**173 061 156**	6	17	19	20	10	16	M5
25	3/4	**173 061 157**	6	19	22	20	10	16	M5
32	1	**173 061 158**	6	24	27	20	10	16	M5
40	11/4	**173 061 159**	7	34	34	20	10	22	M6
50	11/2	**173 061 160**	7	37	37	20	10	22	M6
63	2	**173 061 161**	9	45	45	20	10	25	M8
75	21/2	**173 061 162**	9	52	52	20	10	25	M8
90	3	**173 061 163**	9	65	65	20	10	28	M8
110	4	**173 061 164**	9	79	79	20	10	28	M8
125	41/2	**173 061 165**	9	88	88	20	10	32	M8
140	5	**173 061 166**	9	98	98	20	10	32	M8
160	6	**173 061 167**	9	109	109	20	10	32	M8

Pipe clip type 060 PP metric

Model:

- Material: Clip and safety clip PP black, UV resistant, bolts galvanized
- Accidental opening of the safety clip is not possible
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Clip and safety clip are not assembled in the packaging.
- Pipes with flanges can be installed directly



d [mm]	d [inch]	Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	H2 [mm]	SC
90	3	**167 060 038**	9	89	71	105	15	33	M 8
110		**167 060 039**	9	94	80	115	15	33	M 8
125		**167 060 040**	11	116	91	130	20	35	M10
140	5	**167 060 041**	11	121	98	130	20	35	M10
160		**167 060 042**	11	131	107	148	20	35	M10
180		**167 060 043**	11	143	115	163	20	35	M10
200		**167 060 019**	13	152	120	175	25	39	M12
225		**167 060 020**	13	165	132	175	25	39	M12
250		**167 060 021**	13	183	143	200	25	39	M12
280		**167 060 022**	13	198	156	200	25	39	M12
315		**167 060 023**	13	219	172	225	25	39	M12
355		**167 060 024**	17	275	209	258	30	50	M16
400		**167 060 025**	17	300	228	288	30	50	M16