

WPS-Grup

WPS ENGINEERING WORLD

Monoline



LU/L

Machines & Tools



Informatii generale

Presiunea maxima de lucru



Presiunea maxima de lucru pentru apa, la o temperatura de 20 °C este calculata pentru o durata de viata de 50ani:

MOP (apa / 20 °C / 50 ani) = PN

Classification	Pipe series SDR (S)		
	SDR26 (ISO S12.5)	SDR17 (ISO S8)	SDR11 (ISO S5)
PE80	5 bar	8 bar	12.5 bar
PE100	6.3 bar	10 bar	16 bar

Pentru alte lichide si temperaturi de peste 20 °C trebuiesc luati in calcul factori de corectia pentru a determina presiunea maxima de lucru.



Pentru presiunea maxima admisa in sistemele de alimentare cu gaz trebuie sa se ia in considerare toate standardele si recomandarile nationala locale.

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Certificate

SQS herewith certifies that the company named below has a management system which meets the requirements of the normative bases specified below.

Georg Fischer Piping Systems Ltd. CH-8201 Schaffhausen

Certified area

Georg Fischer Piping Systems Ltd., Schaffhausen
Georg Fischer Rohrleitungssysteme (Schweiz) AG,
Sales Company
Georg Fischer Wavin Ltd., Schaffhausen and
Subingen
Georg Fischer Building Technology Ltd., Schaffhausen
Georg Fischer Fluoropolymer Products GmbH,
Ettenheim

Field of activity

The Piping Systems Group develops, manufactures and distributes plastic or metal components and systems for conducting, pumping, controlling, measuring and regulating liquids and gases and to this end provides comprehensive engineering and related services

Normative bases

ISO 9001:2008 **Quality Management System**
ISO 14001:2004 **Environmental Management System**

Swiss Association for Quality and
Management Systems SQS
Bernstrasse 103, CH-3052 Zollikofen
Issue date: May 28, 2009

This SQS Certificate is valid up to
and including May 27, 2012
Scope number 14
Registration number 10684

X. Edelmann, President SQS

T. Zahner, Managing Director SQS



SCESm 001



Swiss Made



Monoline

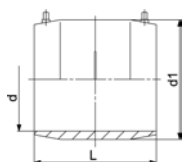


Electrofusion fittings Type LU



Monoline Type LU

Coupler type LU

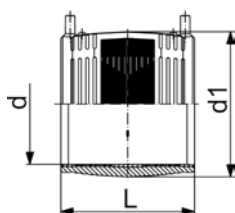


PF 2 90 700 001

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- * Removable centre stops

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	SDR pipe
* 20	701 485 700	1	50	0.034	3250	33	55	11
* 25	701 485 701	1	50	0.042	3250	39	55	11
* 32	701 485 702	1	50	0.055	2500	46	60	11
* 40	701 485 703	1	40	0.077	2000	56	65	11
50	701 485 704	1	50	0.125	1200	69	75	11
63	701 485 705	1	42	0.165	1008	82	80	11
75	701 485 706	1	16	0.230	800	96	110	11
* 90	701 485 710	1	12	0.303	288	113	125	11

Coupler type LU



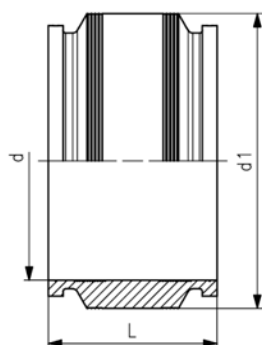
PF 2 90 700 002

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- * Removable centre stops

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	SDR pipe
* 110	701 485 130	1	6	0.686	144	138	145	11 - 17/17.6
* 125	701 485 715	1	5	0.758	150	154	158	11 - 17/17.6
* 140	701 485 716	1	5	0.962	100	172	168	11 - 17/17.6
* 160	701 485 717	1	6	1.367	120	195	180	11 - 17/17.6
180	701 485 718	1	5	1.750	60	219	194	11 - 17/17.6
200	701 485 719	1	4	2.333	48	244	208	11 - 17/17.6
225	701 485 720	1	3	3.193	36	273	224	11 - 17/17.6
250	701 485 725	1	2	4.210	24	304	244	11 - 17/17.6
280	701 485 726	1	1	5.650	18	340	252	11 - 17/17.6
315	701 485 729	1	1	8.000	18	382	268	11 - 17/17.6
355	701 485 138	1	1	13.000	6	432	290	11 - 17/17.6
400	701 485 139	1	1	17.000	6	487	290	11 - 17/17.6

53 91 16

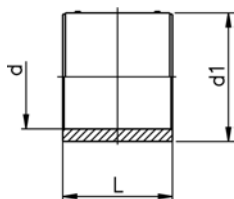
Coupler



PF 2 51 312 005

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

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]
450	753 911 646	1	1	20.388	4	559	320
500	753 911 647	1	1	28.403	2	621	360
560	753 911 648	1	1	39.503	2	694	390
630	753 911 649	1	1	55.641	2	780	430



PF 2 90 700 002

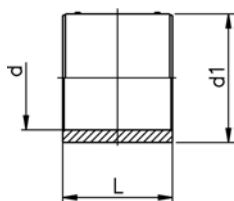
Coupler type LU

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- * Removable centre stops

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	SDR pipe
* 160	701 485 735	1	6	1.009	120	186	180	17 - 26
180	701 485 736	1	6	1.450	72	213	194	17 - 26
200	701 485 737	1	4	1.706	48	233	208	17 - 26
225	701 485 738	1	3	2.557	36	261	224	17 - 26
250	701 485 739	1	2	4.345	24	304	244	17 - 26
280	701 485 740	1	1	5.675	18	340	252	17 - 26
315	701 485 741	1	1	8.000	18	382	268	17 - 26
355	701 471 987	1	1	8.200	6	414	290	17 - 26
400	701 471 983	1	1	15.993	6	487	290	17 - 26
450	701 471 985	1	1	16.500	6	522	290	17 - 26
500	701 471 986	1	1	22.000	6	579	290	17 - 26

Coupler type LU

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- 2 separate welding zones
- **Installation only with pressure pad kit (799 301 561)**



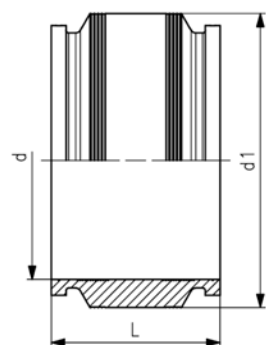
PF 2 90 700 006

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	SDR pipe
560	701 471 988	1	1	25.500	6	638	392	11 - 33
630	701 471 989	1	1	35.000	6	716	442	11 - 33

53 91 16

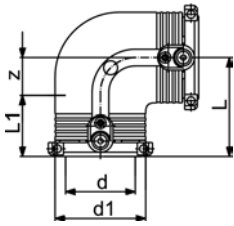
Coupler SDR 17

- PE100 SDR17
- 10 bar water
- Only for water application
- 4 mm pin connectors
- Limited path fusion indicators



PF 2 51 312 006

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]
560	753 911 848	1	1	27.109	2	644	390
630	753 911 849	1	1	37.448	2	723	430

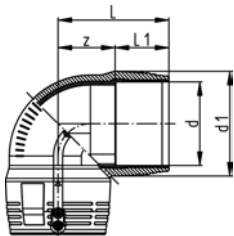


PF 2 90 702 001

Elbow 90° type LU With integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
20	701 485 811	1	40	0.086	1080	35	54	34	20	11	
25	701 485 812	1	40	0.073	1200	35	54	34	20	11	
32	701 485 813	1	35	0.085	1050	44	53	36	17	11	
40	701 485 814	1	30	0.136	900	54	62	39	23	11	
50	701 485 815	1	30	0.206	720	66	71	43	28	11	
63	701 485 816	1	18	0.311	432	81	81	48	32	11	

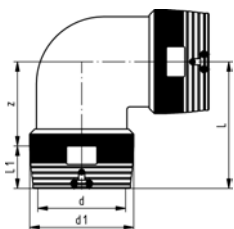


PF 2 90 702 001

Elbow 90° type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
75	701 485 603	1	25	0.413	300	97	94	54	40	11	
90	701 485 617	1	15	0.827	180	115	122	62	60	11 -17/17.6	
110	701 485 618	1	8	1.265	96	140	147	72	76	11 -17/17.6	
125	701 485 619	1	5	1.742	60	161	155	78	77	11 -17/17.6	
160	701 485 790	1	4	4.500	48	208	193	89	104	11 -17/17.6	
180	701 485 791	1	3	5.400	24	234	213	96	117	11 -17/17.6	

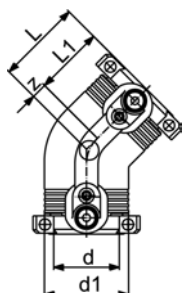


PF 2 90 702 002

Elbow 90° type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
200	701 485 854	1	1	7.987	12	250	298	104	194	11-17/17.6	
225	701 485 858	1	1	11.220	7	280	318	112	206	11-17/17.6	
250	701 485 859	1	1	15.095	8	310	347	123	224	11-17/17.6	

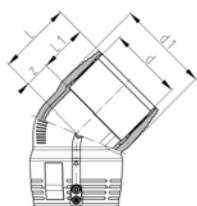


PF 2 90 702 001

Elbow 45° type LU With integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
32	701 485 803	1	35	0.074	1365	44	44	36	8	11	
40	701 485 804	1	25	0.113	975	54	50	39	11	11	
50	701 485 805	1	30	0.158	720	66	56	43	13	11	
63	701 485 806	1	24	0.258	576	81	63	48	15	11	

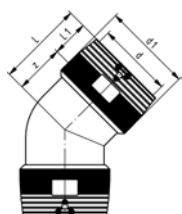


PF 2 90 702 001

Elbow 45° type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
75	701 485 604	1	25	0.346	300	97	71	54	17	11	
90	701 485 620	1	20	0.557	240	115	91	62	29	11-17/17.6	
110	701 485 621	1	12	0.974	144	140	112	72	40	11-17/17.6	
125	701 485 622	1	6	0.974	72	160	119	78	41	11-17/17.6	
160	701 485 796	1	4	4.700	32	208	134	89	42	11-17/17.6	
180	701 485 795	1	5	3.000	40	234	142	96	47	11-17/17.6	

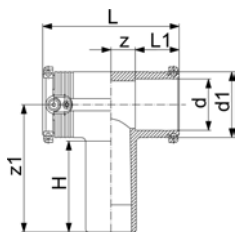


PF 2 90 702 002

Elbow 45° type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
200	701 485 849	1	1	9.900	12	250	232	104	128	11-17/17.6	
225	701 485 851	1	1	9.540	12	280	247	112	135	11-17/17.6	
250	701 485 853	1	1	12.740	8	310	275	123	152	11-17/17.6	

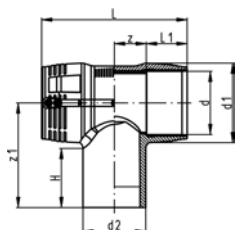


PF 2 90 702 001

Tee 90° equal With integral pipe fixation type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]	SDR pipe
20	701 485 821	1	40	0.090	960	35	90	34	11	92	67	11
25	701 485 822	1	40	0.075	960	35	90	34	11	92	70	11
32	701 485 823	1	35	0.109	840	44	102	36	15	100	74	11
40	701 485 824	1	30	0.175	720	54	120	39	21	114	82	11
50	701 485 825	1	22	0.262	528	66	135	43	24	126	90	11
63	701 485 826	1	12	0.420	288	81	152	48	28	150	102	11



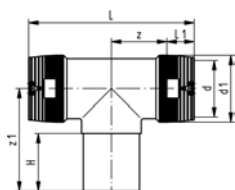
PF 2 90 702 001

Tee 90° equal type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	SP	GP	kg	pcs.-Pal.
75	701 485 601	1	18	0.566	216
90	701 485 623	1	10	0.887	120
110	701 485 624	1	6	1.608	72
125	701 485 600	1	4	2.251	48
160	701 485 636	1	3	5.000	24
180	701 485 646	1	3	6.050	24

d [mm]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]	SDR pipe
75	97	178	54	35	143	87	11
90	115	205	62	41	161	94	11-17/17.6
110	140	255	72	56	184	104	11-17/17.6
125	151	276	78	60	207	113	11-17/17.6
160	210	330	89	76	220	105	11-17/17.6
180	233	350	96	79	247	120	11-17/17.6



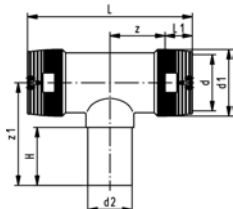
PF 2 90 702 002

Tee 90° equal type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	SP	GP	kg	pcs.-Pal.
200	701 485 777	1	1	10.420	8
225	701 485 778	1	1	15.145	6
250	701 485 779	1	1	19.280	6

d [mm]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]	SDR pipe
200	250	590	104	191	250	117	11-17/17.6
225	280	636	112	206	270	122	11-17/17.6
250	310	685	123	220	288	127	11-17/17.6



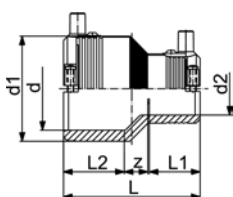
Tee 90° reduced type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	d2 [mm]	Code	SP	GP	kg	pcs.-Pal.	
160	63	701 485 771	1	2	4.940	24	
160	90	701 485 772	1	2	5.040	24	
160	110	701 485 773	1	2	5.160	24	
200	90	701 485 630	1	1	11.260	12	
200	110	701 485 631	1	1	11.260	8	
200	160	701 485 633	1	1	11.260	12	
225	90	701 485 774	1	1	12.700	8	
225	110	701 485 775	1	1	12.750	8	
225	160	701 485 776	1	1	12.951	6	
250	110	701 485 639	1	1	12.750	12	
250	160	701 485 640	1	1	12.750	12	

d [mm]	d2 [mm]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]	SDR pipe	
160	63	200	433	90	127	176	65	11-17/17.6	
160	90	200	496	90	158	188	79	11-17/17.6	
160	110	200	496	90	158	195	85	11-17/17.6	
200	90	250	596	104	194	215	81	11-17/17.6	
200	110	250	596	104	194	218	84	11-17/17.6	
200	160	250	596	104	194	236	101	11-17/17.6	
225	90	280	658	112	217	226	80	11-17/17.6	
225	110	280	658	112	217	235	85	11-17/17.6	
225	160	280	658	112	217	255	105	11-17/17.6	
250	110	310	685	123	220	245	85	11-17/17.6	
250	160	310	685	123	220	264	101	11-17/17.6	

PF 2 90 702 002

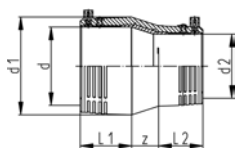


Reducer type LU With integral pipe fixation

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d2 [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	SDR pipe
25	20	701 485 831	1	40	0.054	1080	35	74	34	34	6	11
32	20	701 485 832	1	35	0.066	1050	44	79	33	36	10	11
32	25	701 485 833	1	35	0.067	1050	44	79	33	36	10	11
40	20	701 485 834	1	40	0.080	1200	54	88	33	40	15	11
40	25	701 485 836	1	40	0.086	1200	54	88	33	40	15	11
40	32	701 485 835	1	40	0.090	1200	54	88	33	39	13	11
50	32	701 485 837	1	35	0.120	840	66	96	35	43	18	11
50	40	701 485 838	1	32	0.125	1248	66	96	39	43	14	11
63	32	701 485 839	1	40	0.164	480	81	106	35	48	23	11
63	40	701 485 840	1	40	0.172	480	81	106	39	48	19	11
63	50	701 485 841	1	40	0.183	480	81	106	43	48	15	11

PF 2 90 702 001



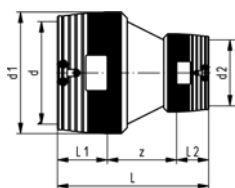
Reducer type LU

- **PE 100 SDR 11** (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d2 [mm]	Code	SP	GP	kg	pcs.-Pal.	
90	63	701 485 627	1	30	0.360	360	
110	90	701 485 628	1	16	0.657	192	
125	90	701 485 602	1	12	0.878	144	
160	110	701 485 850	1	5	1.668	60	
180	125	701 485 852	1	4	2.049	48	

d [mm]	d2 [mm]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	SDR pipe	
90	63	113	146	63	47	36	11-17/17.6	
110	90	138	173	73	63	38	11-17/17.6	
125	90	152	180	79	61	40	11-17/17.6	
160	110	196	226	91	70	65	11-17/17.6	
180	125	220	247	97	70	80	11-17/17.6	

PF 2 90 702 001



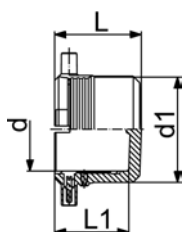
Reducer type LU

- **PE 100 SDR 11** (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	d2 [mm]	Code	SP	GP	kg	pcs.-Pal.	
200	160	701 485 842	1	1	4.150	24	
225	160	701 485 843	1	1	5.240	24	
250	160	701 485 844	1	2	6.763	16	
250	200	701 485 845	1	2	7.680	16	

d [mm]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	SDR pipe	
200	250	365	104	90	171	11-17/17.6	
225	280	385	112	90	183	11-17/17.6	
250	310	400	123	90	187	11-17/17.6	
250	310	427	123	104	200	11-17/17.6	

PF 2 90 702 002



End cap type LU With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	SDR pipe	
20	701 485 950	1	30	0.037	1950	35	52	44	11	
25	701 485 951	1	30	0.042	1950	35	52	44	11	
32	701 485 952	1	50	0.054	1200	44	52	44	11	
40	701 485 953	1	50	0.072	1200	54	56	47	11	
50	701 485 954	1	30	0.099	720	66	60	49	11	
63	701 485 955	1	20	0.150	600	81	66	54	11	

PF 2 90 702 001

End cap (kit) type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including Monoline Coupler

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	SDR pipe	
75	701 485 936	1	30	0.377	360	96	110	11	
90	701 485 937	1	18	0.563	216	113	125	11-17/17.6	
110	701 485 938	1	12	1.084	120	133	145	11-17/17.6	
125	701 485 939	1	8	1.377	96	155	158	11-17/17.6	
180	701 485 942	1	2	3.181	24	220	194	11-17/17.6	

PF 2 90 702 001

End cap type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	L1 [mm]	SDR pipe	
160	701 485 943	1	2	2.000	100	200	143	90	11-17/17.6	
200	701 485 944	1	2	3.040	48	250	162	104	11-17/17.6	
225	701 485 948	1	4	4.140	32	280	170	112	11-17/17.6	
250	701 485 949	1	1	5.930	18	310	185	123	11-17/17.6	

PF 2 90 702 001

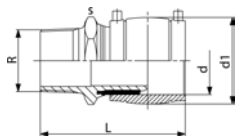
Transition coupler PE/brass (Ms 58)

Male thread type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d [mm]	R [inch]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	s [mm]	SDR pipe	
20	½	701 485 891	1	20	0.168	1300	31	110	30	11	
20	1	701 485 956	1	20	0.344	1300	44	124	40	11	
25	¾	701 485 892	1	16	0.239	1040	36	111	35	11	
25	1	701 485 957	1	16	0.347	432	44	124	40	11	
32	½	701 485 958	1	20	0.222	540	44	121	30	11	
32	¾	701 485 959	1	20	0.244	540	44	122	35	11	
32	1	701 485 893	1	20	0.326	540	44	117	40	11	
32	1 ¼	701 485 960	1	20	0.516	540	54	135	50	11	
32	1 ½	701 485 961	1	20	0.654	324	60	143	60	11	
32	2	701 485 962	1	10	0.953	270	81	157	70	11	
40	1	701 485 963	1	20	0.360	600	54	133	40	11	
40	1 ¼	701 485 894	1	20	0.502	600	54	127	50	11	
40	1 ½	701 485 964	1	20	0.650	540	66	143	60	11	
40	2	701 485 965	1	20	0.959	540	81	157	70	11	
50	1	701 485 966	1	20	0.402	540	66	141	40	11	
50	1 ¼	701 485 967	1	20	0.561	540	66	143	50	11	
50	1 ½	701 485 895	1	12	0.649	324	66	135	60	11	

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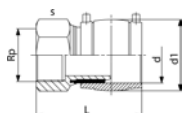


PF 2 90 702 003

d [mm]	R [inch]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	s [mm]	SDR pipe
50	2	701 485 968	1	20	0.970	540	81	157	70	11
63	1	701 485 969	1	8	0.675	400	81	151	40	11
63	1 ¼	701 485 970	1	8	0.742	400	81	153	40	11
63	1 ½	701 485 971	1	8	0.724	400	81	153	60	11
63	2	701 485 896	1	8	0.954	400	81	147	70	11

Transition coupler PE/brass (Ms 58) Female thread type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit



PF 2 90 702 003

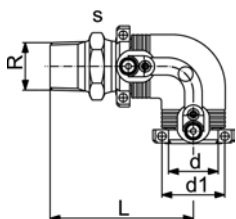
d [mm]	Rp [inch]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	s [mm]	SDR pipe
32	1	701 485 897	1	18	0.326	900	44	108	40	11
40	1 ¼	701 485 898	1	15	0.479	750	54	118	50	11
50	1 ½	701 485 899	1	9	0.729	585	66	126	60	11
63	1	701 485 890	1	12	0.438	288	81	138	70	11
63	1 ¼	701 485 901	1	12	0.571	-	81	138	70	11
63	1 ½	701 485 902	1	12	0.785	12	81	138	70	11
63	2	701 485 900	1	6	0.994	144	81	138	70	11



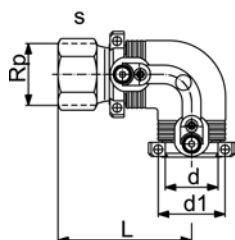
PF 2 90 702 003

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

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit



d [mm]	R [inch]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	s [mm]	SDR pipe
20	½	701 485 911	1	25	0.300	720	31	96	30	11
25	¾	701 485 912	1	20	0.320	540	36	97	35	11
32	1	701 485 913	1	15	0.361	450	44	98	40	11
32	1 ¼	701 485 921	1	15	0.487	-	44	100	50	11
32	1 ½	701 485 922	1	15	0.552	-	44	100	60	11
40	1	701 485 923	1	18	0.512	-	54	107	50	11
40	1 ¼	701 485 914	1	18	0.570	432	54	109	50	11
40	1 ½	701 485 924	1	18	0.632	-	54	109	60	11
50	1	701 485 925	1	12	0.694	-	66	116	60	11
50	1 ¼	701 485 926	1	4	0.761	-	66	118	60	11
50	1 ½	701 485 915	1	12	0.722	288	66	118	60	11
63	1 ¼	701 485 927	1	12	1.037	-	81	128	70	11
63	1 ½	701 485 928	1	12	1.033	-	81	128	70	11
63	2	701 485 916	1	12	1.101	288	81	132	70	11

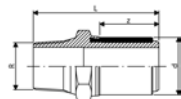


PF 2 90 702 003

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

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d [mm]	Rp [inch]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]	L [mm]	s [mm]	SDR pipe
32	1	701 485 917	1	12	0.350	600	44	89	40	11
40	1 ¼	701 485 918	1	12	0.540	600	54	100	50	11
50	1 ½	701 485 919	1	12	0.790	192	66	109	60	11
63	1	701 485 945	1	8	1.406	192	81	123	70	11
63	1 ¼	701 485 946	1	8	1.362	192	81	123	70	11
63	1 ½	701 485 947	1	8	1.285	192	81	123	70	11
63	2	701 485 920	1	8	1.176	192	81	123	70	11

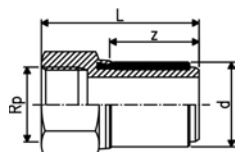


PF 2 90 702 003

Transition adaptor PE/brass (Ms 58) Male thread type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Only to be used with Wavin electrofusion couplers type LU

d [mm]	R [inch]	Code	SP	GP	kg	pcs.-Pal.	L [mm]	z [mm]	SDR pipe
20	½	701 485 870	1	40	0.131	1920	75	28.5	11
25	¾	701 485 871	1	40	0.182	1920	76	28.5	11
32	1	701 485 872	1	30	0.259	1800	80	31.0	11
40	1 ¼	701 485 873	1	20	0.411	780	82	33.0	11
50	1	701 485 874	1	20	0.510	780	88	37.5	11
63	2	701 485 875	1	12	0.766	468	98	40.5	11

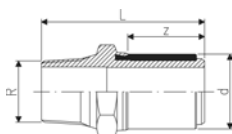


PF 2 90 702 003

Transition adaptor PE/brass (Ms 58) Female thread type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Only to be used with Wavin electrofusion couplers type LU

d [mm]	Rp [inch]	Code	SP	GP	kg	pcs.-Pal.	L [mm]	z [mm]	SDR pipe
32	1	701 485 876	1	18	0.248	702	71	31.0	11
40	1 ¼	701 485 877	1	20	0.392	540	77	33.0	11
50	1 ½	701 485 878	1	20	0.588	1000	81	37.5	11
63	2	701 485 879	1	12	0.836	468	89	40.5	11

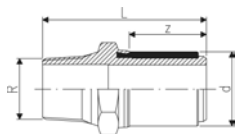


Transition adaptor PE/brass (Ms 58) Male thread type LU

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Only to be used with Wavin electrofusion fittings type LU

d [mm]	R [inch]	Code	SP	GP	kg	pcs.-Pal.	L [mm]	z [mm]	SDR pipe
20	½	701 485 860	1	50	0.127	2500	75	33	11
25	¾	701 485 861	1	40	0.182	2000	76	33	11
32	1	701 485 862	1	1	0.256	1440	80	35	11
32	1 ¼	701 485 880	1	30	0.375	1170	82	35	11
32	1 ½	701 485 881	1	30	0.370	1170	82	35	11
40	1	701 485 882	1	20	0.358	960	84	39	11
40	1 ¼	701 485 863	1	20	0.410	540	86	39	11
40	1 ½	701 485 883	1	20	0.480	780	86	39	11
50	1	701 485 885	1	20	0.463	780	88	43	11

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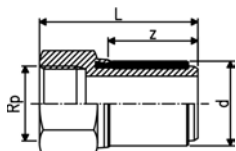


PF 2 90 702 003

d [mm]	R [inch]	Code	SP	GP	kg	pcs.-Pal.	L [mm]	z [mm]	SDR pipe
50	1 ¼	701 485 884	1	20	0.539	780	90	43	11
50	1 ½	701 485 864	1	20	0.508	780	90	43	11
63	1 ¼	701 485 886	1	12	0.702	288	94	47	11
63	1 ½	701 485 887	1	12	0.710	360	94	47	11
63	2	701 485 865	1	12	0.776	780	98	47	11

Transition adaptor PE/brass (Ms 58) Female thread type LU

- **PE 100 SDR 11** (ISO S5)
- See general information for maximum allowable operating pressure
- Only to be used with Wavin electrofusion fittings type LU



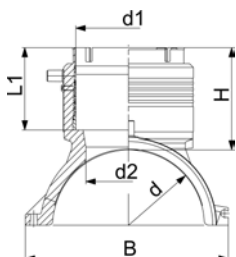
PF 2 90 702 003

d [mm]	Rp [inch]	Code	SP	GP	kg	pcs.-Pal.	L [mm]	z [mm]	SDR pipe
32	1	701 485 866	1	30	0.244	1440	71	35	11
40	1 ¼	701 485 867	1	20	0.387	960	77	39	11
50	1 ½	701 485 868	1	20	0.593	1000	81	43	11
63	1	701 485 972	1	12	1.071	960	89	47	11
63	1 ¼	701 485 973	1	20	1.017	480	89	47	11
63	1 ½	701 485 974	1	12	0.938	468	89	47	11
63	2	701 485 869	1	12	0.842	468	89	47	11

51 336 001

ELGEF Plus branch fitting

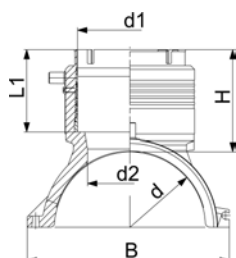
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Fitting complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators
-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



PF 2 51 336 001

d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
110	90	193 135 009	1	4	1.124	72	101	220	82	164	65
110	110	193 135 010	1	4	1.224	72	107	220	88	164	65
125	90	193 135 019	1	4	1.134	72	101	220	82	179	65
125	110	193 135 020	1	4	1.290	72	107	220	88	179	65
* 140	90	193 135 029	1	4	0.982	72	101	220	81	195	65
* 140	110	193 135 030	1	4	1.087	72	107	220	87	195	65
160	90	193 135 039	1	4	1.449	48	102	240	82	215	65
160	110	193 135 040	1	4	1.582	48	108	240	88	215	86
160	125	193 135 041	1	4	1.782	48	129	240	99	215	86
180	90	193 135 049	1	1	1.672	27	102	260	82	237	65
180	110	193 135 050	1	1	1.782	27	108	260	88	237	86
180	125	193 135 051	1	1	2.015	27	129	260	99	237	86
200	90	193 135 059	1	1	1.803	27	102	260	82	253	65
200	110	193 135 060	1	1	1.963	27	108	260	88	253	86
200	125	193 135 061	1	1	2.128	36	129	260	99	253	86
225	90	193 135 069	1	1	2.006	27	102	260	82	287	65
225	110	193 135 070	1	1	2.040	36	108	260	88	287	86
225	125	193 135 071	1	1	2.312	18	129	260	99	287	86
250	90	193 135 079	1	1	2.145	27	102	260	82	312	65
250	110	193 135 080	1	2	2.258	36	108	260	88	312	86
250	125	193 135 081	1	1	2.500	18	129	260	99	312	86

51 336 001



PF 2 51 336 001

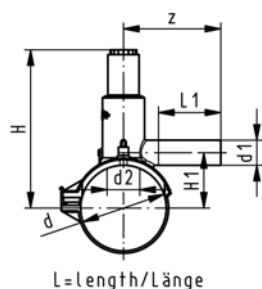
ELGEF Plus branch fitting topload

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

d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]
280	90	193 135 289	1	5	1.242	90	102	260	82	243	65
280	110	193 135 290	1	4	1.320	72	108	260	88	243	86
280	125	193 135 291	1	4	1.530	72	129	260	99	243	86
315 - 355	90	193 135 309	1	5	1.232	90	102	260	82	249	65
315 - 355	110	193 135 310	1	4	1.297	72	108	260	88	249	86
315 - 355	125	193 135 311	1	4	1.556	72	129	260	99	249	86
400 - 450	90	193 135 329	1	5	1.039	90	102	260	82	256	65
400 - 450	110	193 135 330	1	4	1.134	72	108	260	88	256	86
400 - 450	125	193 135 331	1	4	1.369	72	129	260	99	256	86
500 - 630	90	193 135 159	1	5	1.095	90	102	260	82	263	65
500 - 630	110	193 135 160	1	5	1.188	90	108	260	88	263	86
500 - 630	125	193 135 161	1	4	1.425	72	129	260	99	263	86

Tapping saddle type LU Monobloc version

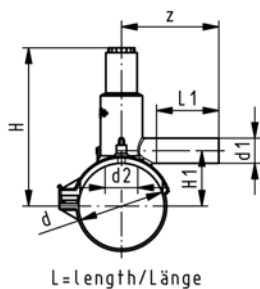
- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Weld pipe series indicated only
- Limited path fusion indicators
- *Compatible with GASSTOP type GS



d - d1 [mm]	Code	SP	GP	kg	pcs.-Pal.
* 63 - 20	701 131 932	1	20	0.390	240
63 - 25	701 131 933	1	20	0.387	240
* 63 - 32	701 131 934	1	20	0.398	240
* 90 - 20	701 131 952	1	12	0.450	144
90 - 25	701 131 953	1	12	0.527	144
* 90 - 32	701 131 954	1	12	0.538	144
90 - 63	701 131 957	1	12	0.450	144
* 110 - 20	701 131 962	1	9	0.665	108
110 - 25	701 131 963	1	9	0.570	108
* 110 - 32	701 131 964	1	9	0.580	108
110 - 63	701 131 967	1	8	0.600	96
* 125 - 20	701 131 972	1	6	0.600	72
125 - 25	701 131 973	1	6	0.568	72
* 125 - 32	701 131 974	1	6	0.597	72
125 - 63	701 131 977	1	6	0.597	72
* 160 - 20	701 131 992	1	6	0.665	72
160 - 25	701 131 993	1	6	0.665	72
* 160 - 32	701 131 994	1	6	0.671	72
160 - 63	701 131 997	1	6	0.790	72

d - d1 [mm]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
* 63 - 20	25	146	44	144	76	110	11
63 - 25	25	146	44	144	76	110	11
* 63 - 32	25	146	44	144	76	110	11
* 90 - 20	32	198	61	162	76	110	11-17/17.6
90 - 25	32	198	61	162	76	115	11-17/17.6
* 90 - 32	32	198	61	162	76	115	11-17/17.6
90 - 63	32	198	61	162	76	115	11-17/17.6
* 110 - 20	32	208	71	162	76	115	11-17/17.6
110 - 25	32	208	71	162	76	115	11-17/17.6

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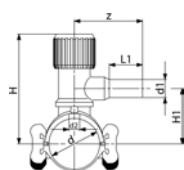


PF 2 90 701 005

d - d1 [mm]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
* 110 - 32	32	208	71	162	76	125	11-17/17.6
110 - 63	32	208	71	162	100	125	11-17/17.6
* 125 - 20	32	216	79	162	76	120	11-17/17.6
125 - 25	32	216	79	162	76	120	11-17/17.6
* 125 - 32	32	216	79	162	76	120	11-17/17.6
125 - 63	32	216	79	162	76	120	11-17/17.6
* 160 - 20	32	233	96	162	76	120	11-17/17.6
160 - 25	32	233	96	162	76	125	11-17/17.6
* 160 - 32	32	233	96	162	76	130	11-17/17.6
160 - 63	32	233	96	162	100	170	11-17/17.6

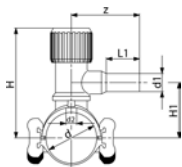
Tapping saddle type LU

- **PE 100 SDR 11 (ISO S5)**
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Weld pipe series indicated only
- Limited path fusion indicators
- *Compatible with GASSTOP type GS
- s = wrench size cutter



d - d1 [mm]	Code	SP	GP	kg	pcs.-Pal.
* 40 - 20	701 488 200	1	10	0.610	240
40 - 25	701 488 201	1	10	0.610	240
40 - 32	701 488 202	1	10	0.610	240
* 50 - 20	701 488 203	1	10	0.625	240
50 - 25	701 488 204	1	10	0.630	240
50 - 32	701 488 205	1	10	0.631	240
63 - 20	701 488 206	1	10	0.674	120
63 - 25	701 488 207	1	10	0.675	120
* 63 - 32	701 488 209	1	10	0.868	120
63 - 40	701 488 210	1	10	0.872	120
63 - 50	701 488 211	1	10	0.889	120
63 - 63	701 488 212	1	10	0.889	120
* 75 - 32	701 488 216	1	10	0.893	120
75 - 40	701 488 217	1	10	0.899	120
75 - 50	701 488 218	1	10	0.913	120
75 - 63	701 488 219	1	10	0.947	120
* 90 - 32	701 488 223	1	10	0.957	120
90 - 40	701 488 224	1	10	0.969	120
90 - 50	701 488 225	1	10	0.990	120
90 - 63	701 488 227	1	10	1.028	120
* 110 - 32	701 488 232	1	6	1.022	72
110 - 40	701 488 233	1	6	1.034	72
110 - 50	701 488 234	1	6	1.048	72
110 - 63	701 488 236	1	6	1.088	72
* 125 - 32	701 488 241	1	5	1.053	120
125 - 40	701 488 242	1	5	1.066	120
125 - 50	701 488 243	1	5	1.081	120
125 - 63	701 488 245	1	5	1.115	120
* 160 - 32	701 488 250	1	5	1.161	60
160 - 40	701 488 251	1	5	1.156	60
160 - 50	701 488 252	1	5	1.183	60
160 - 63	701 488 254	1	5	1.217	60
* 180 - 32	701 488 259	1	4	1.150	48
180 - 40	701 488 260	1	4	1.231	48
180 - 50	701 488 261	1	4	1.170	48
180 - 63	701 488 263	1	4	1.285	48
* 200 - 32	701 488 268	1	4	1.170	48
200 - 40	701 488 269	1	4	1.170	48
200 - 50	701 488 270	1	4	1.290	48
200 - 63	701 488 272	1	4	1.230	48
* 225 - 32	701 488 277	1	4	1.367	48

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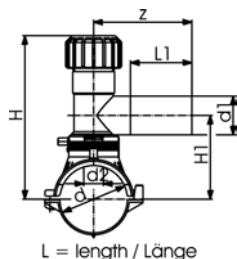


d - d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	
225 - 40	701 488 278	1	4	1.250	48	
225 - 50	701 488 279	1	4	1.415	48	
225 - 63	701 488 281	1	4	1.415	48	

d - d1 [mm]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	s [mm]	SDR pipe	
* 40 - 20	18	133	60	145	53	114	10	11	
40 - 25	18	133	60	145	53	114	10	11	
40 - 32	18	133	60	145	53	121	10	11	
* 50 - 20	18	138	65	145	53	114	10	11	
50 - 25	18	138	65	145	53	114	10	11	
50 - 32	18	138	65	145	53	121	10	11	
63 - 20	18	145	71	175	53	114	10	11	
63 - 25	18	145	71	175	53	114	10	11	
* 63 - 32	30	171	75	175	59	121	19	11	
63 - 40	30	171	75	175	59	121	19	11	
63 - 50	30	171	75	175	62	131	19	11	
63 - 63	30	171	75	175	64	139	19	11	
* 75 - 32	30	177	81	175	59	121	19	11-17/17.6	
75 - 40	30	177	81	175	59	121	19	11-17/17.6	
75 - 50	30	177	81	175	62	131	19	11-17/17.6	
75 - 63	30	177	81	175	64	139	19	11-17/17.6	
* 90 - 32	30	189	93	175	59	121	19	11-17/17.6	
90 - 40	30	189	93	175	59	121	19	11-17/17.6	
90 - 50	30	189	93	175	62	131	19	11-17/17.6	
90 - 63	30	189	93	175	64	139	19	11-17/17.6	
* 110 - 32	30	199	103	175	59	121	19	11-17/17.6	
110 - 40	30	199	103	175	59	121	19	11-17/17.6	
110 - 50	30	199	103	175	62	131	19	11-17/17.6	
110 - 63	30	199	103	175	64	139	19	11-17/17.6	
* 125 - 32	30	207	111	175	59	121	19	11-17/17.6	
125 - 40	30	207	111	175	59	121	19	11-17/17.6	
125 - 50	30	207	111	175	62	131	19	11-17/17.6	
125 - 63	30	207	111	175	64	139	19	11-17/17.6	
* 160 - 32	30	224	128	175	59	121	19	11-17/17.6	
160 - 40	30	224	128	175	59	121	19	11-17/17.6	
160 - 50	30	224	128	175	62	131	19	11-17/17.6	
160 - 63	30	224	128	175	64	139	19	11-17/17.6	
* 180 - 32	30	234	138	175	59	121	19	11-17/17.6	
180 - 40	30	234	138	175	59	121	19	11-17/17.6	
180 - 50	30	234	138	175	62	131	19	11-17/17.6	
180 - 63	30	234	138	175	64	139	19	11-17/17.6	
* 200 - 32	30	244	148	175	59	121	19	11-17/17.6	
200 - 40	30	244	148	175	59	121	19	11-17/17.6	
200 - 50	30	244	148	175	62	131	19	11-17/17.6	
200 - 63	30	244	148	175	64	139	19	11-17/17.6	
* 225 - 32	30	257	161	175	59	121	19	11-17/17.6	
225 - 40	30	257	161	175	59	121	19	11-17/17.6	
225 - 50	30	257	161	175	62	131	19	11-17/17.6	
225 - 63	30	257	161	175	64	139	19	11-17/17.6	

PF 2 90 701 001

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.
- **Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required

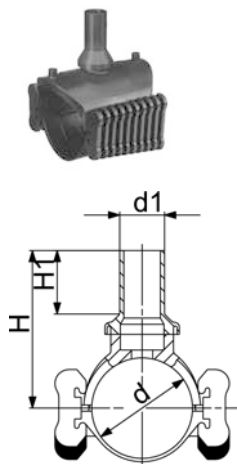
d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.
250	20	193 131 532	1	3	1.025	54
250	25	193 131 533	1	3	1.026	54
250	32	193 131 534	1	3	0.996	78
250	40	193 131 535	1	3	1.008	78
250	63	193 131 537	1	3	1.733	54
** 280	63	193 131 547	1	5	1.478	90
** 315-355	63	193 131 557	1	5	1.481	90
** 400	63	193 131 577	1	5	1.513	90

d [mm]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
250	32	279	201	165	76	130
250	32	279	201	165	76	130
250	32	279	201	165	76	130
250	32	279	201	165	81	137
250	35	328	206	165	100	160
** 280	35	328	206	165	100	160
** 315-355	35	328	206	165	100	160
** 400	35	328	206	165	100	160

PF 2 51 313 001

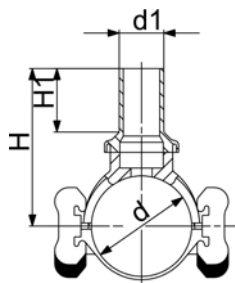
Spigot saddle type LU

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Limited path fusion indicators
- Wall thickness of d1 equivalent to pipe series SDR 11
- Weld pipe series indicated only
- L = length of saddle



d - d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	H [mm]	H1 [mm]	L [mm]	SDR pipe
50 - 32	701 488 286	1	10	0.465	240	114	54	145	11
63 - 32	701 488 287	1	10	0.504	240	121	54	175	11
63 - 50	701 488 000	1	10	0.537	240	128	63	175	11
75 - 32	701 488 288	1	10	0.531	240	127	54	175	11-17/17.6
75 - 50	701 488 001	1	10	0.565	240	134	63	175	11-17/17.6
90 - 32	701 488 289	1	10	0.570	240	140	54	175	11-17/17.6
90 - 50	701 488 002	1	10	0.646	240	147	63	175	11-17/17.6
90 - 63	701 488 003	1	10	0.685	240	138	65	175	11-17/17.6
110 - 32	701 488 290	1	10	0.650	240	150	54	175	11-17/17.6
110 - 50	701 488 004	1	8	0.705	192	158	63	175	11-17/17.6
110 - 63	701 488 005	1	8	0.746	192	148	65	175	11-17/17.6
125 - 32	701 488 291	1	10	0.690	120	157	54	175	11-17/17.6
125 - 50	701 488 006	1	10	0.740	120	164	63	175	11-17/17.6
125 - 63	701 488 007	1	10	0.776	120	155	65	175	11-17/17.6
160 - 32	701 488 292	1	8	0.790	96	175	54	175	11-17/17.6
160 - 50	701 488 008	1	8	0.836	96	182	63	175	11-17/17.6
160 - 63	701 488 009	1	8	0.836	96	173	65	175	11-17/17.6
180 - 32	701 488 293	1	7	0.870	84	185	54	175	11-17/17.6
180 - 63	701 488 011	1	7	0.937	84	183	65	175	11-17/17.6

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PF 2 90 701 001

d - d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	H [mm]	H1 [mm]	L [mm]	SDR pipe
200 - 32	701 488 294	1	6	0.900	72	195	54	175	11-17/17.6
200 - 63	701 488 013	1	6	0.980	72	193	65	175	11-17/17.6
225 - 32	701 488 295	1	6	0.980	72	207	54	175	11-17/17.6
225 - 63	701 488 015	1	6	1.050	72	205	65	175	11-17/17.6

Pressure tapping valve With 360° rotatable outlet type LU

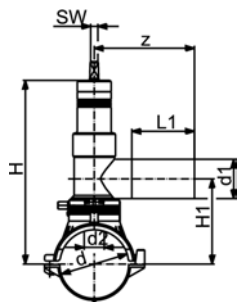
- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 13 for outlet d32
- Number of turns to fully open or close valve is 28 for outlet d63
- Spindle size (SW) 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- *moulded-on lower clamp



d [mm]	d1 [mm]	Code	GP	kg	pcs.-Pal.
63	32	701 488 700	5	2.935	90
63	63	701 488 720	5	2.682	90
75	32	701 488 701	5	2.793	90
75	63	701 488 721	5	3.065	90
90	32	701 488 702	5	1.909	90
90	63	701 488 722	5	2.775	90
* 110	32	701 488 703	3	1.953	60
* 110	63	701 488 723	3	2.797	72
125	32	701 488 704	3	1.874	60
125	63	701 488 724	3	2.854	60
140	32	701 488 705	3	3.123	60
140	63	701 488 725	3	3.123	72
* 160	32	701 488 706	3	1.983	60
* 160	63	701 488 726	3	2.880	72
180	32	701 488 707	3	2.090	54
180	63	701 488 727	3	2.964	54
200	32	701 488 708	3	2.949	54
200	63	701 488 728	3	3.251	54
225	32	701 488 709	3	3.253	54
225	63	701 488 729	3	3.253	54
250	63	701 488 730	3	3.000	54

d [mm]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
63	21	202	97	165	70	127	11
63	31	272	112	165	100	160	11
75	21	208	103	165	70	127	11
75	31	278	118	165	100	160	11
90	21	216	111	165	70	127	11-17/17.6
90	31	286	126	165	100	160	11-17/17.6
* 110	21	226	121	165	70	127	11-17/17.6
* 110	31	296	136	165	100	160	11-17/17.6
125	21	233	128	165	70	127	11-17/17.6
125	31	303	143	165	100	160	11-17/17.6
140	21	241	136	165	70	127	11-17/17.6
140	31	311	151	165	100	160	11-17/17.6
* 160	21	251	146	165	70	127	11-17/17.6
* 160	31	321	161	165	100	160	11-17/17.6
180	21	261	156	165	70	127	11-17/17.6

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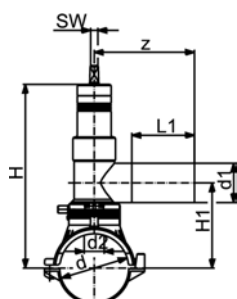
L = length / Länge

PF 2 90 701 004

d [mm]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
180	31	331	171	165	100	160	11-17/17.6
200	21	271	166	165	70	127	11-17/17.6
200	31	341	181	165	100	160	11-17/17.6
225	21	281	178	165	70	127	11-17/17.6
225	31	353	193	165	100	160	11-17/17.6
250	31	366	206	165	100	160	11-17/17.6

Pressure tapping valve With 360° rotatable outlet type LU

- PE 100 SDR 17 (ISO S8)
- 10 bar Gas / 16 bar Water
- **Suitable for pipes with wall thickness between 7 and 21 mm only.**
- With integrated drill bit to tap live mains under pressure
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 13 for outlet d32
- Number of turns to fully open or close valve is 28 for outlet d63
- Spindle size (SW) 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- *Delivery without lower part for assembling as Top Load with tool no. 799.350.475



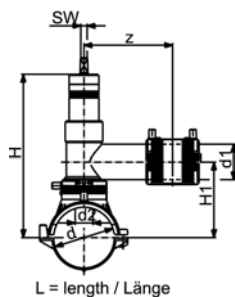
L = length / Länge

d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.
250	32	701 488 710	1	3	3.000	54
* 280	32	701 488 711	1	3	3.000	60
* 280	63	701 488 731	1	3	3.000	60
* 315-355	32	701 488 712	1	3	2.683	60
* 315-355	63	701 488 732	1	3	3.000	60
* 400	32	701 488 733	1	3	2.683	60
* 400	63	701 488 734	1	3	3.000	60

d [mm]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
250	21	293	191	165	70	127
* 280	21	293	191	165	70	127
* 280	31	366	206	165	100	160
* 315-355	21	293	191	165	70	127
* 315-355	31	366	206	165	100	160
* 400	21	293	191	165	70	127
* 400	31	366	206	165	100	160

PF 2 90 701 004

53 152 000



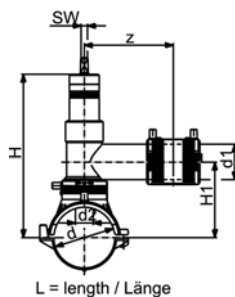
Pressure tapping valve (kit) With 360° rotatable outlet

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated drill bit to tap live mains under pressure
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 13 for outlet d32
- Number of turns to fully open or close valve is 28 for outlet d 40, d 50, d 63
- Spindle size (SW) 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- Supplied as kit with enclosed service line fitting (Monoline coupler or reducer)

d [mm]	d1 [mm]	Code	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]	
63	32	701 488 912	21	202	97	165	127	
63	40	701 488 913	31	272	112	165	160	
63	50	701 488 914	31	272	112	165	160	
63	63	701 488 915	31	272	112	165	160	
75	32	701 488 916	21	208	103	165	127	
75	40	701 488 917	31	278	118	165	160	
75	50	701 488 918	31	278	118	165	160	
75	63	701 488 919	31	278	118	165	160	
90	32	701 488 920	21	216	111	165	127	
90	40	701 488 921	31	286	126	165	160	
90	50	701 488 922	31	286	126	165	160	
90	63	701 488 923	31	286	126	165	160	
110	32	701 488 924	21	226	121	165	127	
110	40	701 488 925	31	296	136	165	160	
110	50	701 488 926	31	296	136	165	160	
110	63	701 488 927	31	296	136	165	160	
125	32	701 488 928	21	233	128	165	127	
125	40	701 488 929	31	303	143	165	160	
125	50	701 488 930	31	303	143	165	160	
125	63	701 488 931	31	303	143	165	160	
140	32	701 488 932	21	241	136	165	127	
140	40	701 488 933	31	311	151	165	160	
140	50	701 488 934	31	311	151	165	160	
140	63	701 488 935	31	311	151	165	160	
160	32	701 488 936	21	251	146	165	127	
160	40	701 488 937	31	321	161	165	160	
160	50	701 488 938	31	321	161	165	160	
160	63	701 488 939	31	321	161	165	160	
180	32	701 488 940	21	261	156	165	127	
180	40	701 488 941	31	331	171	165	160	
180	50	701 488 942	31	331	171	165	160	
180	63	701 488 943	31	331	171	165	160	
200	32	701 488 944	21	271	166	165	127	
200	40	701 488 945	31	341	181	165	160	
200	50	701 488 946	31	341	181	165	160	
200	63	701 488 947	31	341	181	165	160	
225	32	701 488 948	21	281	178	165	127	
225	40	701 488 949	31	353	193	165	160	
225	50	701 488 950	31	353	193	165	160	
225	63	701 488 951	31	353	193	165	160	
250	40	701 488 953	31	366	206	165	160	
250	50	701 488 954	31	366	206	165	160	
250	63	701 488 955	31	366	206	165	160	

PF 2 90 701 004

53 152 100



PF 2 90 701 004

Pressure tapping valve (kit) With 360° rotatable outlet

- PE 100 SDR 17 (ISO S8)
- 10 bar Gas / 16 bar Water
- With integrated drill bit to tap live mains under pressure
- **Suitable for pipes with wall thickness between 7 and 21 mm only.**
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 13 for outlet d32
- Number of turns to fully open or close valve is 28 for outlet d 40, d 50, d 63
- Spindle size (SW) 14
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- Supplied as kit with enclosed service line fitting (Monoline coupler or reducer)
- *Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required

d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]
250	32	701 488 952	1	3	3.000	54	21	293	191	165	127
* 280	32	701 488 956	1	3	3.000	60	21	293	191	165	127
* 280	40	701 488 957	1	3	3.000	54	31	366	206	165	160
* 280	50	701 488 958	1	3	3.000	54	31	366	206	165	160
* 280	63	701 488 959	1	3	3.000	60	31	366	206	165	160
* 315 - 355	32	701 488 960	1	3	3.000	60	21	293	191	165	127
* 315 - 355	40	701 488 961	1	3	3.000	60	31	366	206	165	160
* 315 - 355	50	701 488 962	1	3	3.000	60	31	366	206	165	160
* 315 - 355	63	701 488 963	1	3	3.000	60	31	366	206	165	160

60 050 600



PF 2 51 313 017

Extension spindle for tapping valves rigid

- PE-casing with anti-sand cap
- PE-sleeve, suitable for tapping valve
- Square bar steel, hot-dip galvanized
- Clip-pin from stainless steel 1.4301
- Bush CI40 with slot and clip-pin (tool-free connection)

Pipe cover [m]	Code	kg	L [mm]
0.75	160 050 620	0.897	490
1.00	160 050 621	1.544	740
1.25	160 050 622	1.944	990
1.50	160 050 623	2.246	1180

60 050 500



PF 2 51 313 017

Extension spindle for tapping valve telescopic

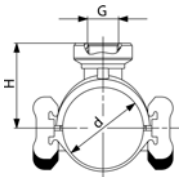
- Continuously adjustable and self-supporting
- Pullout- and dirt-safe
- Rod hot-dip galvanized
- PE-casing and PE-centering cap with gasket
- Clip-pin from stainless steel 1.4301
- Bush C140 with slot and clip-pin (tool-free connection)
- PE-sleeve, suitable for tapping valve

Pipe cover [m]	Code	kg	L [mm]	L1 [mm]	
0.75-1.05	160 050 520	1.475	450	700	
1.00-1.50	160 050 521	2.356	760	1300	
1.30-1.90	160 050 522	2.881	930	1550	
1.70-2.70	160 050 523	2.000	1300	2350	

Spigot saddle With female pipe thread type LU

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Limited path fusion indicators
- Weld pipe series indicated only

L = length of saddle



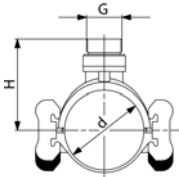
d [mm]	G [inch]	Code	SP	GP	kg	pcs.-Pal.	H [mm]	L [mm]	SDR pipe	
63	1 ¼	701 488 048	1	10	0.930	240	84	175	11	
75	1 ¼	701 488 050	1	10	0.960	240	90	175	11-17/17.6	
90	1 ¼	701 488 052	1	10	1.000	240	104	175	11-17/17.6	
90	1 ½	701 488 053	1	10	0.965	240	104	175	11-17/17.6	
110	1 ¼	701 488 055	1	6	1.080	144	114	175	11-17/17.6	
110	1 ½	701 488 056	1	6	1.027	144	114	175	11-17/17.6	
125	1 ½	701 488 059	1	5	1.055	120	121	175	11-17/17.6	
160	1 ½	701 488 062	1	4	1.140	96	139	175	11-17/17.6	
180	1 ½	701 488 065	1	4	1.220	96	149	175	11-17/17.6	
200	1 ½	701 488 068	1	3	1.250	72	159	175	11-17/17.6	
225	1 ½	701 488 071	1	3	1.356	72	171	175	11-17/17.6	

PF 2 90 701 001

Stop-off saddle With female thread G 2" type LU

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Limited path fusion indicators
- Weld pipe series indicated only

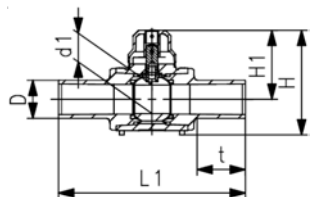
L = length of saddle



d [mm]	G [inch]	Code	SP	GP	kg	pcs.-Pal.	H [mm]	L [mm]	SDR pipe	
90	2 ½	701 488 072	1	5	1.330	120	148	175	11	
110	2 ½	701 488 073	1	5	1.830	120	149	175	11	
125	2 ½	701 488 074	1	4	1.877	96	165	175	11	
160	2 ½	701 488 075	1	3	1.945	72	183	175	11	
180	2 ½	701 488 076	1	2	2.017	48	193	175	11	
200	2 ½	701 488 077	1	2	2.050	48	203	175	11	
225	2 ½	701 488 078	1	2	2.140	48	215	175	11	

PF 2 90 701 001

93 103 025

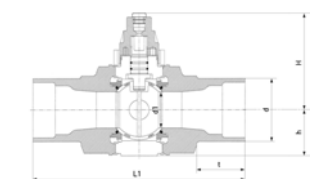


ELGEF Plus ball valve

- **PE 100 SDR 11** (ISO S5) - d20 up to d225
- 10 bar Gas / 16 bar Water
- d20 - d110 in accordance with DVGW GW336
- d160 up to d225 are supplied with base plate and straps
- d1 = diameter of bore
- Regarding pressure rate and application local standards and regulations have to be considered

d [mm]	Code	GP	pcs.-Pal.	kg	L1 [mm]	t [mm]	H [mm]	H1 [mm]	d1 [mm]
20	193 103 206	-	150	0.500	264	72	134	96	23
25	193 103 207	-	150	0.500	264	72	134	96	23
32	193 103 208	-	150	0.500	274	76	134	96	23
40	193 103 209	-	150	0.500	301	85	142	100	30
50	193 103 210	-	80	0.800	327	92	156	107	38
63	193 103 211	-	80	1.200	350	101	173	114	48
75	193 103 212	-	80	1.400	376	114	173	114	48
90	193 103 213	-	33	3.200	439	128	240	158	68
110	193 103 214	-	24	4.600	497	148	267	171	83
125	193 103 040	-	36	4.300	405	112	365	280	64
160	193 103 042	-	14	9.600	540	123	481	364	92
180	193 103 043	-	14	10.000	540	123	481	364	92
200	193 103 044	-	14	10.800	540	123	481	364	92
225	193 103 045	-	-	19.300	877	240	755	540	120

PF 2 51 308 004



ELGEF Plus ball valve "full bore"

- **PE 100 SDR 11** (ISO S5) - d20 up to d225
- 10 bar Gas / 16 bar Water
- d1 = diameter of bore

d [mm]	Code	kg	L1 [mm]	t [mm]	H [mm]	H1 [mm]	d1 [mm]
110	193 104 039	7.800	561	100	359	242	92
160	193 104 042	17.000	645	145	475	325	120

PF 2 51 308 005



ELGEF Plus operational key

- Made out of PVC
- Suitable for all dimensions

Length [mm]	Code	kg
200	173 103 082	0.378
500	173 103 083	0.753
1300	173 103 084	1.714

PF 2 51 308 003



ELGEF Plus accessory kit

- Extension spindle made out of PVC with protection pipe (500-900 mm) and cap
- 100% plastic solution for a non-corrosive system

Article	Code	kg
Kit	173 103 056	1.695

PF 2 51 308 003



Extension spindle

- Extension spindle made out of PVC with protection pipe (500-900 mm) and cap
- 100% plastic solution for a non-corrosive system

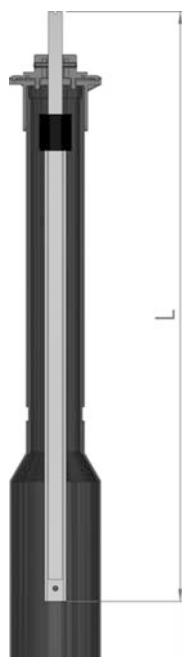
Length [mm]	Code	kg	
500	173 103 080	0.770	

PF 2 51 308 003

Base plate with straps

Code	kg	
173 103 081	0.945	

PF 2 51 308 003



Extension spindle for ELGEF Plus ball valve Telescopic

- For ELGEF Plus ball valve d20-d110mm
- Extension spindle acc. to DVGW GW336
- Steel square connection 20x20mm for d20-63
- Steel square connection 25x25mm for d90-d110
- Continuously adjustable and self-supporting
- Pullout- and dirt-safe
- Rod hot-dip galvanized
- PE-casing and PE-centering cap with gasket
- Inclusive clip-pin out of stainless steel
- Torque max.140Nm

d-d [mm]	Pipe cover [m]	L [m]	Code	kg	pcs.-Pal.	
20 - 75	0.75-1.10	0.55 - 0.95	173 103 175	1.590	-	
20 - 75	1.10-1.70	0.90 - 1.55	173 103 176	2.544	-	
20 - 75	1.60-2.50	1.30 - 2.40	173 103 177	3.872	-	
90 - 110	0.75-1.10	0.55 - 0.85	173 103 185	2.500	70	
90 - 110	1.10-1.70	0.80 - 1.40	173 103 186	3.710	-	
90 - 110	1.60-2.50	1.30 - 2.30	173 103 187	6.040	-	

PF 2 51 308 003



Extension spindle for ELGEF Plus ball valve Telescopic

- For ELGEF Plus ball valve d125-d225mm
- For ELGEF Plus ball valve "Full Bore" d110mm and d160mm
- Continuously adjustable and self-supporting
- Pullout- and dirt-safe
- Rod hot-dip galvanized
- PE-casing and PE-centering cap with gasket
- Polygon-bush from galvanized steel
- PE-sleeve, fitted for all dimensions
- Torque max.140Nm

d-d [mm]	Pipe cover [m]	Code	kg	pcs.-Pal.	
125 - 225	0.75-1.10	173 103 075	2.100	70	
125 - 225	1.10-1.80	173 103 076	3.108	-	
125 - 225	1.65-2.75	173 103 077	7.200	-	

PF 2 51 308 003

Monoline



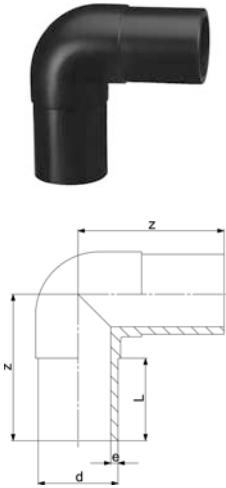
Spigot fittings Type L



Monoline Type L

Elbow 90° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

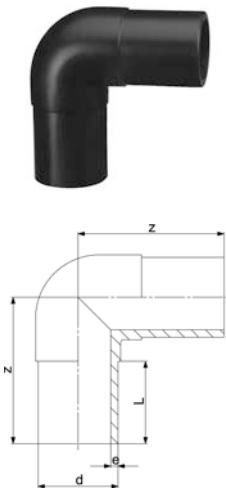


PF 2 90 703 001

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	e [mm]	
20	701 485 220	1	40	0.027	2600	75	52	3.0	
25	701 485 221	1	40	0.037	2600	80	52	3.0	
32	701 485 222	1	100	0.056	2400	85	54	3.0	
40	701 485 223	1	50	0.095	1200	95	57	3.7	
50	701 485 224	1	30	0.159	720	105	63	4.6	
63	701 485 225	1	40	0.275	480	115	65	5.8	
75	701 485 226	1	12	0.413	288	130	72	6.8	
90	701 485 227	1	18	0.704	216	150	81	8.2	
110	701 485 228	1	10	1.145	120	165	86	10.0	
125	701 485 229	1	8	1.609	96	180	93	11.4	
140	701 485 230	5	5	1.950	60	202	92	12.7	
160	701 485 231	1	5	3.100	40	210	103	14.6	
180	701 485 232	1	3	4.319	24	232	107	16.4	
200	701 485 233	1	3	5.733	24	253	117	18.2	
225	701 485 234	1	1	7.729	12	270	122	20.5	
250	701 485 235	3	2	10.512	8	292	130	22.7	
280	753 100 922	2	2	15.059	8	320	140	25.4	
315	753 100 923	1	-	21.960	4	370	150	28.6	

Elbow 90° type L

- PE 100 SDR 17 / 17,6 (ISO S8 / S8,3)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

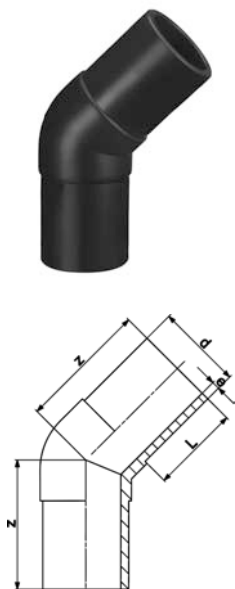


PF 2 90 703 001

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	e [mm]	
90	701 485 377	1	18	0.553	216	150	81	5,4	
110	701 485 378	1	8	0.625	96	165	86	6,6	
125	701 485 379	1	8	0.927	96	180	93	7,4	
140	701 485 380	1	5	1.510	60	202	92	8,3	
160	701 485 381	1	5	3.040	40	210	102	9,5	
180	701 485 382	1	3	3.239	24	232	107	10,7	
200	701 485 383	1	3	4.980	24	253	115	11,9	
225	701 485 384	1	1	6.850	12	270	120	13,4	
250	753 100 821	2	3	8.000	12	292	130	14,8	
280	753 100 822	2	2	10.638	8	320	140	16,6	
315	753 100 823	1	1	15.886	4	370	150	18,7	

Elbow 45° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

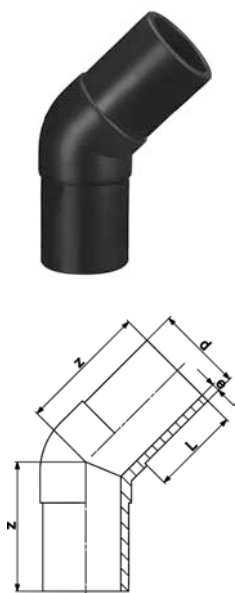


PF 2 90 703 001

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	e [mm]	
20	701 485 200	1	40	0.026	3840	70	52	3,0	
25	701 485 201	1	30	0.035	2880	75	52	3,0	
32	701 485 202	1	25	0.050	1625	80	54	3,0	
40	701 485 203	1	30	0.082	1500	85	57	3,7	
50	701 485 204	1	70	0.137	840	90	63	4,6	
63	701 485 205	1	50	0.300	600	95	65	5,8	
75	701 485 206	1	12	0.346	288	105	72	6,8	
90	701 485 207	1	20	0.578	240	120	81	8,2	
110	701 485 208	1	12	0.931	144	130	86	10,0	
125	701 485 209	1	8	1.310	96	140	92	11,4	
140	753 151 016	4	-	1.600	64	164	120	12,7	
160	701 485 211	1	6	2.448	48	162	102	14,6	
180	701 485 212	1	5	3.283	40	186	107	16,4	
200	701 485 213	1	3	4.371	24	185	116	18,2	
225	701 485 214	1	2	6.013	16	200	123	20,5	
250	701 485 370	3	1	8.541	12	220	130	22,7	
280	753 150 922	3	2	10.285	8	230	140	25,4	
315	753 150 923	2	2	14.124	8	250	150	28,6	

Elbow 45° type L

- PE 100 SDR 17 / 17,6 (ISO S8 / S8,3)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers



PF 2 90 703 001

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	e [mm]	
90	701 485 367	1	20	0.450	240	120	81	5,4	
110	701 485 368	1	12	0.900	144	130	86	6,6	
125	701 485 369	6	8	0.980	72	140	92	7,4	
140	753 150 816	4	-	1.100	64	164	120	8,3	
160	701 485 371	1	6	2.390	48	162	102	9,5	
180	701 485 372	1	5	3.060	40	170	107	10,7	
200	701 485 373	1	3	4.100	24	186	116	11,9	
225	701 485 374	1	2	4.368	16	205	123	13,4	
250	753 150 821	3	3	6.012	12	217	130	14,8	
280	753 150 822	3	2	7.489	8	230	140	16,6	
315	753 150 823	2	2	10.123	8	250	150	18,7	

Elbow 30° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	e [mm]	
32	753 120 908	1	40	0.530	1920	70	54	3,0	
40	753 120 909	1	40	0.530	2000	80	57	3,7	
50	753 120 910	1	6	0.530	576	80	63	4,6	
63	701 485 351	1	15	0.207	750				
75	701 485 352	1	6	0.250	390				
90	701 585 020	10	10	0.880	160				
110	701 585 021	2	2	0.840	72				
125	701 485 355	1	2	1.176	78				
140	753 120 916	2	4	1.760	-	135	92	12,7	
160	701 585 022	2	2	2.050	32				
180	701 485 357	1	3	2.907	36				
200	701 485 358	1	2	3.820	24				
225	701 485 359	1	2	5.360	24				
250	753 120 921	1	2	7.300	12	190	130	22,7	
280	753 120 922	1	1	10.600	12	200	139	25,4	
315	753 120 923	1	1	10.100	8	200	150	28,6	

PF 2 90 703 001

Elbow 30° type L

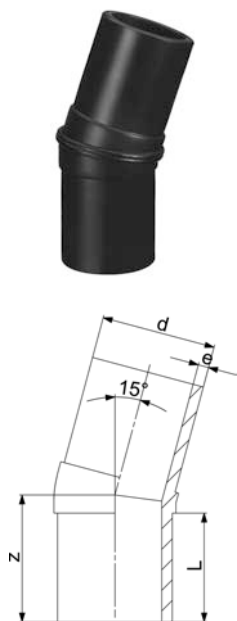
- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	e [mm]	
90	701 585 520	9	-	0.430	243				
110	701 585 521	10	-	0.620	120				
125	701 485 362	1	2	0.860	78				
140	753 120 816	1	4	1.490	48	150	92	8,3	
160	701 585 522	2	6	1.600	48				
180	701 485 364	1	3	2.040	36				
200	701 485 365	1	2	2.780	24				
225	701 485 366	1	2	3.880	24				
250	753 120 821	1	2	5.830	12	200	130	14,8	
280	753 120 822	1	1	8.100	-	200	139	16,6	
315	753 120 823	1	1	8.655	50	220	150	18,7	

PF 2 90 703 001

Elbow 15° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

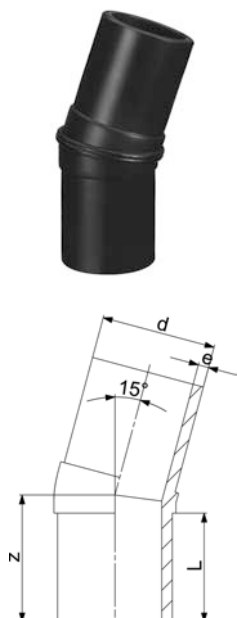


PF 2 90 703 006

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	e [mm]	
32	753 141 008	1	25	0.051	1625	70	54	3.0	
40	753 141 009	1	15	0.082	1440	80	57	3.7	
50	753 141 010	1	20	0.118	1200	80	63	4.6	
63	701 485 060	8	-	0.200	520				
75	701 485 061	1	6	0.250	390				
90	701 485 062	1	7	0.487	273				
110	701 485 063	1	6	0.785	144				
125	701 485 064	1	5	1.070	120				
140	753 141 016	1	6	1.600	72	135	92	12.7	
160	701 485 066	1	6	2.050	72				
180	701 485 067	1	3	2.669	36				
200	701 485 068	1	2	3.440	24				
225	701 485 069	1	2	4.900	24				
250	753 141 021	1	1	8.300	96	190	130	22.7	
280	753 141 022	1	1	10.600	12	200	139	25.4	
315	753 141 023	1	1	13.100	8	200	150	28.6	

Elbow 15° type L

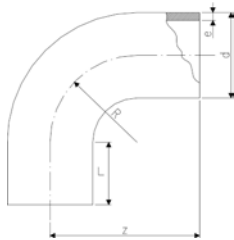
- PE 100 SDR 17 / 17,6 (ISO S8 / S8,3)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers



PF 2 90 703 006

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	e [mm]	
90	701 485 072	1	7	0.370	273	100	81	5.4	
110	701 485 073	1	6	0.620	144	105	86	6.6	
125	701 485 074	1	5	0.990	120	115	92	7.4	
140	753 140 816	1	2	0.370	78	135	92	8.3	
160	701 485 076	1	6	1.600	72	125	102	9.5	
180	701 485 077	1	3	2.040	36	135	107	10.7	
200	701 485 078	1	2	2.780	24	145	115	11.9	
225	701 485 079	1	2	4.820	24	155	122	13.4	
250	753 140 821	1	2	5.830	16	190	130	14.8	
280	753 140 822	1	2	8.100	16	195	139	16.6	
315	753 140 823	1	1	7.679	50	200	150	18.7	

53 00 09

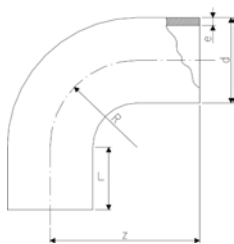
**Bend 90° type L**

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- * made out of seamless pipe

d [mm]	Code	SP	GP	kg	z [mm]	L [mm]	R [mm]	e [mm]	
20	753 001 006	50	64	0.020	63	41	20	1,9	
25	753 001 007	50	-	0.030	68	41	25	2,3	
32	753 001 008	25	25	0.050	78	46	32	2,9	
40	753 001 009	15	15	0.090	91	49	40	3,7	
50	753 001 010	40	-	0.160	107	55	50	4,6	
63	753 001 011	50	-	0.280	130	63	63	5,8	
75	753 001 012	32	32	0.300	152	70	75	6,8	
90	753 001 013	18	-	0.530	168	79	90	8,2	
110	753 001 014	12	12	0.890	193	82	110	10,0	
125	753 001 015	15	-	1.290	216	87	125	11,4	
140	753 001 016	5	-	2.230	232	92	140	12,7	
160	753 001 017	8	8	2.460	258	98	160	14,6	
180	753 001 018	6	-	5.000	290	105	180	16,4	
200	753 001 019	4	-	6.857	317	112	200	18,2	
225	753 001 020	2	-	9.770	350	120	225	20,5	
250	753 001 021	2	-	9.230	375	130	250	22,7	
280	753 001 022	1	-	15.487	430	150	280	25,4	
315	753 001 023	1	-	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	

PF 2 51 301 005

53 00 08

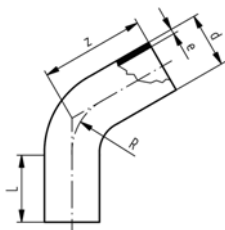
**Bend 90° type L**

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- * made out of seamless pipe

d [mm]	Code	SP	GP	kg	z [mm]	L [mm]	R [mm]	e [mm]	
90	753 000 813	18	1	0.600	168	79	90	5,4	
110	753 000 814	12	-	1.000	193	82	110	6,6	
125	753 000 815	15	-	1.300	216	87	125	7,4	
140	753 000 816	5	-	1.800	232	92	140	8,3	
160	753 000 817	8	-	2.500	258	98	160	9,5	
180	753 000 818	6	-	4.000	290	105	180	10,7	
200	753 000 819	4	-	6.500	317	112	200	11,9	
225	753 000 820	2	-	8.500	350	120	225	13,4	
250	753 000 821	2	-	9.940	375	130	250	14,8	
280	753 000 822	1	-	13.795	430	150	280	16,6	
315	753 000 823	1	-	24.000	470	150	315	18,7	
* 355	753 000 824	-	-	36.700	900	250	533	21,1	
* 400	753 000 825	1	1	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	

PF 2 51 301 005

53 07 10

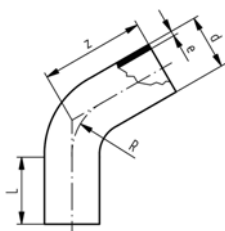
**Bend 60° type L**

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- made out of seamless pipe

d [mm]	Code	SP	GP	kg	z [mm]	L [mm]	R [mm]	e [mm]
32	753 071 008	80	-	0.070	128	80	48	2,9
40	753 071 009	50	-	0.120	135	80	60	3,7
50	753 071 010	40	-	0.240	158	100	75	4,6
63	753 071 011	25	-	0.420	173	100	95	5,8
75	753 071 012	16	-	0.600	182	100	113	6,8
90	753 071 013	12	-	0.900	193	100	135	8,2
110	753 071 014	12	-	1.780	270	150	165	10,0
125	753 071 015	9	-	2.500	283	150	188	11,4
140	753 071 016	6	-	2.700	296	150	210	12,7
160	753 071 017	4	-	4.574	313	150	240	14,6
180	753 071 018	4	-	4.900	330	150	270	16,4
200	753 071 019	2	-	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

PF 2 51 301 009

53 07 08

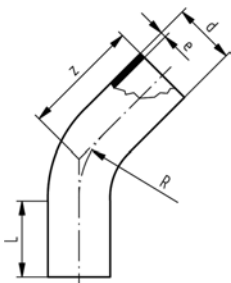
**Bend 60° type L**

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- made out of seamless pipe

d [mm]	Code	SP	GP	kg	z [mm]	L [mm]	R [mm]	e [mm]
90	753 070 813	12	-	0.600	193	100	135	5,4
110	753 070 814	12	-	1.280	270	150	165	6,6
125	753 070 815	9	-	1.300	283	150	187	7,4
140	753 070 816	6	-	1.800	296	150	210	8,3
160	753 070 817	4	-	3.160	313	150	240	9,5
180	753 070 818	4	-	3.190	330	150	270	10,7
200	753 070 819	2	-	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

PF 2 51 301 009

53 05 10



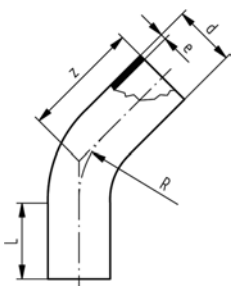
PF 2 51 301 009

Bend 45° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- made out of seamless pipe

d [mm]	Code	SP	GP	kg	z [mm]	L [mm]	R [mm]	e [mm]	
32	753 051 008	80	-	0.077	120	80	48	2,9	
40	753 051 009	50	-	0.120	120	80	60	3,7	
50	753 051 010	40	-	0.240	149	100	75	4,6	
63	753 051 011	25	-	0.360	161	100	95	5,8	
75	753 051 012	16	-	0.560	168	100	113	6,8	
90	753 051 013	15	-	0.760	177	100	135	8,2	
110	753 051 014	8	-	1.700	243	150	165	10,0	
125	753 051 015	15	-	2.186	253	150	188	11,4	
140	753 051 016	9	-	2.800	262	150	210	12,7	
160	753 051 017	6	-	3.800	274	160	240	14,6	
180	753 051 018	4	-	5.140	287	150	270	16,4	
200	753 051 019	-	-	7.058	299	150	300	18,2	
225	753 051 020	1	-	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



PF 2 51 301 009

Bend 45° type L

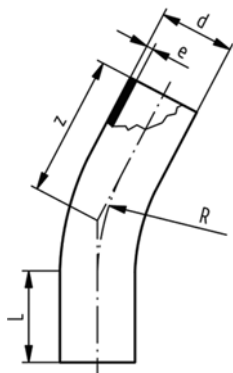
- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- made out of seamless pipe

d [mm]	Code	SP	GP	kg	z [mm]	L [mm]	R [mm]	e [mm]	
90	753 050 813	15	-	0.600	177	100	135	5,4	
110	753 050 814	8	-	1.100	243	150	165	6,6	
125	753 050 815	15	-	1.540	253	150	188	7,4	
140	753 050 816	9	-	1.720	262	150	210	8,3	
160	753 050 817	6	-	2.200	274	150	240	9,5	
180	753 050 818	4	-	3.000	287	150	270	10,7	
200	753 050 819	4	4	3.700	299	150	300	11,9	
225	753 050 820	1	-	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	1	1	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 06 10

Bend 30° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- made out of seamless pipe



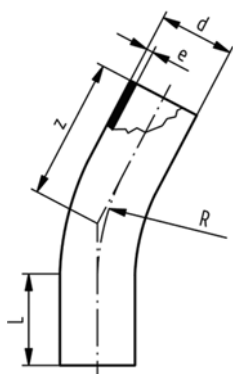
PF 2 51 301 009

d [mm]	Code	SP	GP	kg	z [mm]	L [mm]	R [mm]	e [mm]	
32	753 061 008	80	-	0.077	113	80	48	2,9	
40	753 061 009	80	-	0.120	116	80	60	3,7	
50	753 061 010	80	-	0.200	140	100	75	4,6	
63	753 061 011	40	-	0.400	150	100	95	5,8	
75	753 061 012	25	-	0.520	155	100	113	6,8	
90	753 061 013	20	-	0.760	160	100	135	8,2	
110	753 061 014	9	-	1.689	219	150	165	10,0	
125	753 061 015	6	-	2.065	225	150	188	11,4	
140	753 061 016	5	-	2.200	231	150	210	12,7	
160	753 061 017	8	-	3.300	239	150	240	14,6	
180	753 061 018	6	-	4.789	247	150	270	16,4	
200	753 061 019	4	-	5.777	255	150	300	18,2	
225	753 061 020	2	-	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

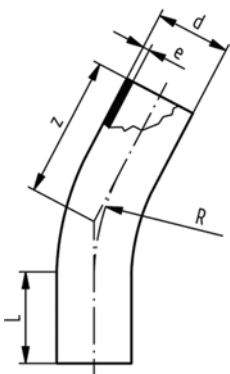
Bend 30° type L

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- made out of seamless pipe



PF 2 51 301 009

d [mm]	Code	SP	GP	kg	z [mm]	L [mm]	R [mm]	e [mm]	
90	753 060 813	20	-	0.500	160	100	135	5,4	
110	753 060 814	9	-	1.060	219	150	165	6,6	
125	753 060 815	6	-	1.100	225	150	188	7,4	
140	753 060 816	5	-	1.720	231	150	210	8,3	
160	753 060 817	8	-	1.900	239	150	240	9,5	
180	753 060 818	6	-	3.389	247	150	270	10,7	
200	753 060 819	4	-	4.213	255	150	300	11,9	
225	753 060 820	2	-	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	1	1	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	

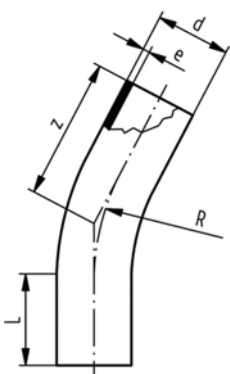


PF 2 51 301 009

Bend 22° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- made out of seamless pipe

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	R [mm]	e [mm]	
32	753 081 008	80	-	0.077	640	113	80	48	2,9	
40	753 081 009	80	-	0.120	640	116	80	60	3,7	
50	753 081 010	60	-	0.200	480	140	100	75	4,6	
63	753 081 011	40	-	0.400	320	150	100	95	5,8	
75	753 081 012	25	-	0.520	240	155	100	113	6,8	
90	753 081 013	20	-	0.760	160	160	100	135	8,2	
110	753 081 014	9	-	1.500	72	219	150	165	10,0	
125	753 081 015	6	-	2.000	48	225	150	188	11,4	
140	753 081 016	5	-	2.200	40	231	150	210	12,7	
160	753 081 017	8	-	3.300	32	239	150	240	14,6	
180	753 081 018	7	-	3.700	28	247	150	270	16,4	
200	753 081 019	4	-	4.750	16	255	150	300	18,2	
225	753 081 020	2	5	6.300	8	266	150	338	20,5	
250	753 081 021	-	-	14.015	12	385	250	375	22,7	
280	753 081 022	-	-	18.510	8	400	250	420	25,4	
315	753 081 023	-	-	21.845	6	460	250	473	28,6	
355	753 081 024	-	-	34.900	5	540	300	533	32,3	
400	753 081 025	-	-	45.900	4	560	300	600	36,4	
450	753 081 026	-	-	60.200	4	580	300	675	40,9	
500	753 081 027	-	-	83.300	2	650	350	750	45,5	
560	753 081 028	-	-	108.600	1	680	350	840	50,9	
630	753 081 029	-	-	148.300	1	730	350	945	57,3	

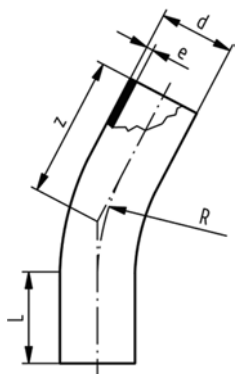


PF 2 51 301 009

Bend 22° type L

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- made out of seamless pipe

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	R [mm]	e [mm]	
90	753 080 813	20	-	0.500	160	160	100	135	5.4	
110	753 080 814	9	-	1.060	72	219	150	165	6.6	
125	753 080 815	6	-	1.100	48	225	150	188	7.4	
140	753 080 816	5	-	1.720	40	231	150	210	8.3	
160	753 080 817	8	-	1.900	32	239	150	240	9.5	
180	753 080 818	7	-	3.318	28	247	150	270	10.7	
200	753 080 819	4	-	3.200	16	255	150	300	11.9	
225	753 080 820	2	-	5.431	8	266	150	338	13.4	
250	753 080 821	-	-	9.904	12	385	250	375	14.8	
280	753 080 822	-	-	12.800	8	400	250	420	16.6	
315	753 080 823	-	-	14.144	6	460	250	473	18.7	
355	753 080 824	-	-	22.700	5	540	300	533	21.1	
400	753 080 825	-	-	29.800	4	560	300	600	23.7	
450	753 080 826	-	-	39.100	4	580	300	675	26.7	
500	753 080 827	-	-	54.000	2	650	350	750	29.7	
560	753 080 828	-	-	70.300	6	680	350	840	33.2	
630	753 080 829	-	-	95.800	5	730	350	945	37.4	

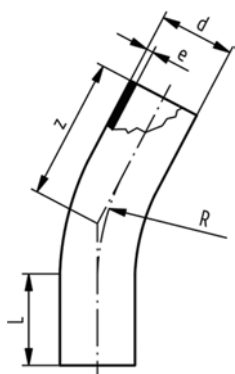


PF 2 51 301 009

Bend 11° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- made out of seamless pipe

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	R [mm]	e [mm]	
32	753 091 008	80	-	0.077	640	113	80	48	2.9	
40	753 091 009	80	-	0.120	640	116	80	60	3.7	
50	753 091 010	60	-	0.200	480	140	100	75	4.6	
63	753 091 011	40	-	0.400	320	150	100	95	5.8	
75	753 091 012	25	-	0.520	240	155	100	113	6.8	
90	753 091 013	20	-	0.760	160	160	100	135	8.2	
110	753 091 014	9	-	1.500	72	219	150	165	10.0	
125	753 091 015	6	-	2.000	48	225	150	188	11.4	
140	753 091 016	5	-	2.200	40	231	150	210	12.7	
160	753 091 017	8	-	3.300	32	239	150	240	14.6	
180	753 091 018	7	-	3.700	28	247	150	270	16.4	
200	753 091 019	4	-	4.750	16	255	150	300	18.2	
225	753 091 020	2	-	6.300	8	266	150	338	20.5	
250	753 091 021	-	-	13.100	12	385	250	375	22.7	
280	753 091 022	-	-	16.300	8	400	250	420	25.4	
315	753 091 023	-	-	21.845	6	460	250	473	28.6	
355	753 091 024	-	-	34.900	5	540	300	533	32.3	
400	753 091 025	-	-	45.900	4	560	300	600	36.4	
450	753 091 026	-	-	60.200	4	580	300	675	40.9	
500	753 091 027	-	-	83.300	2	650	350	750	45.5	
560	753 091 028	-	-	108.600	1	680	350	840	50.9	
630	753 091 029	-	-	148.300	1	730	350	945	57.3	



PF 2 51 301 009

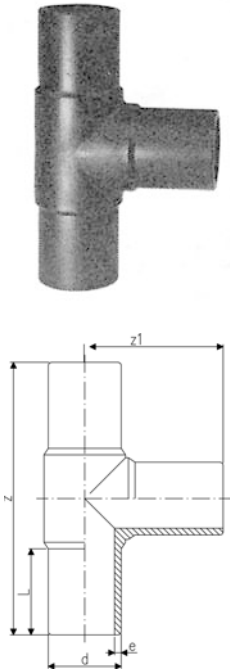
Bend 11° type L

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- made out of seamless pipe

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	R [mm]	e [mm]	
90	753 090 813	20	-	0.500	160	160	100	135	5.4	
110	753 090 814	9	-	1.060	72	219	150	165	6.6	
125	753 090 815	6	-	1.100	48	225	150	188	7.4	
140	753 090 816	5	-	1.720	40	231	150	210	8.3	
160	753 090 817	8	-	2.653	32	239	150	240	9.5	
180	753 090 818	7	-	2.500	28	247	150	270	10.7	
200	753 090 819	4	-	4.308	16	255	150	300	11.9	
225	753 090 820	2	-	7.540	8	266	150	338	13.4	
250	753 090 821	-	-	11.600	12	385	250	375	14.8	
280	753 090 822	-	-	12.800	8	400	250	420	16.6	
315	753 090 823	-	-	25.000	6	460	250	473	18.7	
355	753 090 824	-	-	22.700	5	540	300	533	21.1	
400	753 090 825	-	-	29.800	4	560	300	600	23.7	
450	753 090 826	-	-	39.100	4	580	300	675	26.7	
500	753 090 827	-	-	54.000	2	650	350	750	29.7	
560	753 090 828	-	-	70.300	6	680	350	840	33.2	
630	753 090 829	-	-	95.800	5	730	350	945	37.4	

Tee 90° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers
- * With welded pipes
- * Segment welded and reinforced
- * No pressure reduction factor

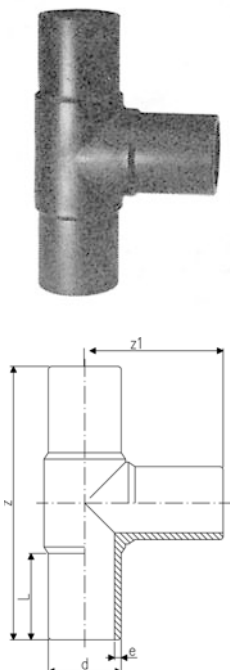


d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	z1 [mm]	L [mm]	e [mm]
20	701 485 240	1	30	0.038	1950	150	75	52	3,0
25	701 485 241	1	25	0.054	1625	160	80	52	3,0
32	701 485 242	1	20	0.074	1300	170	85	54	3,0
40	701 485 243	1	80	0.129	960	190	95	57	3,7
50	701 485 244	1	20	0.217	480	210	105	63	4,6
63	701 485 245	1	25	0.420	300	230	115	65	5,8
75	701 485 246	1	16	0.604	192	264	132	72	6,8
90	701 485 247	1	7	1.031	84	300	150	81	8,2
110	701 485 248	1	7	1.616	84	330	165	86	10,0
125	701 485 249	1	4	2.386	48	366	183	92	11,4
140	701 485 250	4	4	3.200	32	396	196	92	12,7
160	701 485 251	1	4	4.349	32	420	210	102	14,6
180	701 485 252	1	3	6.030	24	460	230	107	16,4
200	701 485 253	1	2	8.500	16	500	250	117	18,2
225	701 485 254	1	1	11.500	12	540	270	122	20,5
250	701 485 255	2	2	14.708	4	575	288	130	22,7
280	753 200 902	1	-	18.670	4	615	308	139	25,4
315	753 200 903	1	-	26.150	4	695	346	150	28,6
355	753 200 904	-	-	39.800	4	818	410	165	32,3
400	753 200 905	-	-	42.495	2	910	455	180	36,4
450	753 200 906	-	-	77.300	2	970	485	195	40,9
500	753 200 907	-	-	101.000	2	1060	530	215	45,5
* 560	753 200 908	-	-	153.300	2	1510	755	230	50,9
* 630	753 200 909	-	-	205.500	2	1630	815	250	57,3

PF 2 90 703 001

Tee 90° type L

- PE 100 SDR 17 / 17,6 (ISO S8 / S8,3)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers
- * With welded pipes
- * Segment welded and reinforced
- * No pressure reduction factor

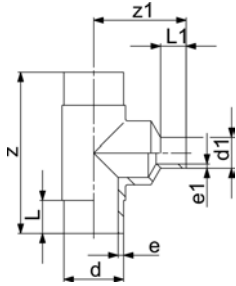
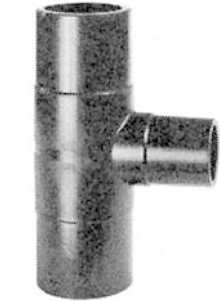


d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	z1 [mm]	L [mm]	e [mm]
90	701 485 387	1	7	0.780	84	300	150	80	5,4
110	701 485 388	1	7	1.440	84	330	165	86	6,6
125	701 485 389	1	4	2.050	48	366	185	92	7,4
140	701 485 390	4	4	2.450	32	396	196	92	8,3
160	701 485 391	1	4	3.208	32	428	214	104	9,5
180	701 485 392	1	3	5.450	24	460	230	105	10,7
200	701 485 393	2	-	5.910	16	500	250	115	11,9
225	701 485 394	1	1	10.120	12	540	270	122	13,4
250	753 200 821	2	2	10.000	8	575	288	130	14,8
280	753 200 802	1	2	13.350	8	615	308	139	16,6
315	753 200 803	1	-	17.985	4	695	346	150	18,7
355	753 200 804	-	-	25.850	4	818	410	165	21,1
400	753 200 805	-	-	35.015	2	910	455	180	23,7
450	753 200 806	-	-	56.000	2	970	485	195	26,7
500	753 200 807	-	-	71.000	2	1060	530	215	29,7
* 560	753 200 808	-	-	99.200	2	1510	755	230	33,2
* 630	753 200 809	-	-	132.700	2	1630	815	250	37,4

PF 2 90 703 001

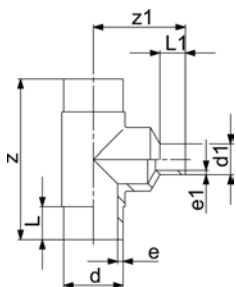
Reduced tee type L

- **PE 100 SDR 11 (ISO S5)**
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers
- * With welded reducer



d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
25	20	753 201 002	20	20	0.053	-	160		52	52	3,0	3,0
32	20	753 201 003	1	10	0.094	960	170	105	54	52	3,0	3,0
32	25	753 201 004	1	25	0.098	-	170	110	54	52	3,0	3,0
* 40	20	701 485 321	1	30	0.130	720	190	120	57	52	3,7	3,0
* 40	25	701 485 324	1	30	0.140	720	190	120	57	52	3,7	3,0
40	32	753 201 070	1	6	0.160	390	190	120	57	52	3,7	3,0
* 50	20	701 485 325	1	20	0.210	480	210	140	63	52	4,6	3,0
* 50	25	701 485 326	1	20	0.220	480	210	130	63	52	4,6	3,0
* 50	32	701 485 327	1	20	0.230	480	210	130	63	53	4,6	3,0
50	40	753 201 081	1	10	0.276	360	210	130	63	57	4,6	3,7
* 63	32	701 485 328	1	10	0.378	300	230	145	65	53	5,8	3,0
* 63	40	701 485 329	1	10	0.700	240	230	145	65	57	5,8	3,7
63	50	701 585 040	-	-	0.300	-	215	103	63	56	5,8	4,6
75	32	701 585 041	-	-	0.490	-	256	108	70	46	6,9	3,0
75	40	753 201 084	1	4	0.755	156	264	180	72	57	6,8	3,7
75	50	701 585 042	1	10	0.538	180	253	108	70	56	6,9	4,6
75	63	701 585 043	10	10	0.556	180	255	117	70	63	6,9	5,8
90	50	753 201 027	15	1	0.820	120	280	117	79	55	8,2	4,6
90	63	701 585 045	15	-	0.775	120	269	136	79	64	8,2	5,8
90	75	701 585 046	1	3	0.799	72	272	138	73	70	8,2	6,9
110	63	701 585 047	10	-	1.267	80	309	156	84	65	10,0	5,8
110	75	701 585 048	1	2	1.235	48	309	151	82	70	10,0	6,9
110	90	701 585 049	10	-	1.275	80	321	162	85	79	10,0	8,2
125	63	753 201 085	1	8	2.359	64	366	225	92	61	11,4	5,8
* 125	75	701 485 338	1	8	2.453	64	366	225	92	72	11,4	6,9
125	90	701 585 050	1	3	1.722	54	335	170	90	83	11,4	8,2
125	110	701 485 340	1	4	2.389	48	341	170	88	82	11,4	10,0
140	75	753 201 087	1	4	4.050	32	396	230	92	70	12,7	6,8
140	90	753 201 089	1	4	4.095	32	396	235	92	79	12,7	8,2
140	110	753 201 090	1	4	3.600	32	396	240	92	82	12,7	10,0
140	125	753 201 091	1	2	4.170	24	396	240	92	90	12,7	11,4
160	63	701 485 516	8	2	2.680	24	340	176	98	65	14,6	5,8
160	75	701 585 052	1	2	2.717	36	340	180	98	74	14,6	6,9
160	90	701 485 517	8	-	3.775	32	410	180	98	79	14,6	8,2
* 160	110	701 485 342	4	4	4.060	32	420	265	98	82	14,6	10,0
* 160	125	701 485 343	1	4	4.465	32	420	265	102	92	14,6	11,4
160	140	753 201 093	1	4	5.895	32	420	270	102	96	14,6	12,7
180	90	701 585 053	1	1	4.455	12	420	202	136	98	16,4	8,2
180	110	701 585 054	-	-	4.379	-	0	0	0	0	16,4	10,0
* 180	125	701 485 344	1	2	6.480	16	460	285	107	92	16,4	11,4
180	140	753 201 095	1	1	6.317	-	460	295	107	110	16,4	12,7
180	160	701 585 055	1	1	4.379	12	411	205	102	94	16,4	14,6
200	63	753 201 073	1	1	7.300	16	500	190	122	63	18,2	5,8
200	90	701 585 057	4	-	9.730	16	503	215	120	81	18,2	8,2
200	110	701 585 058	4	-	9.730	16	503	218	120	84	18,2	10,0
* 200	125	701 485 346	1	1	8.150	12	500	295	117	92	18,2	11,4
200	140	753 201 097	1	1	10.570	8	500	310	117	110	18,2	12,7
200	160	701 585 059	4	-	9.730	16	503	236	120	101	18,2	14,6
200	180	753 201 098	1	1	9.031	7	500	310	117	110	18,2	16,4
225	75	701 585 060	-	-	6.500	-	441	227	119	75	20,5	6,9
225	90	701 485 519	3	-	9.730	12	441	225	119	79	20,5	8,2
225	110	701 485 520	3	-	9.780	12	441	237	118	83	20,5	10,0
* 225	125	701 485 348	1	1	10.900	8	540	320	122	92	20,5	11,4
225	140	753 201 100	1	1	14.574	8	540	335	122	110	20,5	12,7
225	160	701 485 349	1	-	10.220	8	540	320	120	106	20,5	14,6
225	180	701 585 061	1	1	9.375	12	543	277	132	132	20,5	16,4
225	200	753 201 101	1	1	14.925	-	540	340	122	117	20,5	18,2
250	110	701 585 062	2	-	11.878	8	586	245	132	85	22,7	10,0
250	160	701 585 063	2	-	9.730	8	586	264	132	101	22,7	14,6
250	180	753 201 102	1	1	18.890	-	576	350	130	105	22,7	16,4

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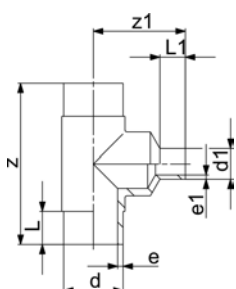


PF 2 90 703 004

d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
250	200	753 201 103	1	1	19.220	4	576	360	130	112	22,7	18,2
250	225	753 201 104	1	1	15.240	-	576	390	130	120	22,7	20,5
280	200	753 201 105	1	1	24.520	-	616	410	139	112	25,4	18,2
280	225	753 201 106	1	1	24.755	-	616	420	139	120	25,4	20,5
280	250	753 201 107	1	1	25.210	-	616	420	139	130	25,4	22,7
315	110	753 201 051	1	1	15.300	4	695	277	150	82	28,6	10,0
315	160	753 201 052	1	1	22.998	4	695	296	150	102	28,6	14,6
315	200	753 201 108	1	1	33.950	4	690	470	150	134	28,6	18,2
315	225	753 201 053	1	1	20.011	-	650	335	170	145	28,6	20,5
315	250	753 201 054	1	1	24.243	4	695	325	150	130	28,6	22,7
315	280	753 201 109	1	1	34.950	-	690	480	150	139	28,6	25,4
355	250	753 201 110	1	1	48.900	4	818	530	165	130	32,3	22,7
355	280	753 201 111	1	1	49.300	-	818	480	165	139	32,3	25,4
355	315	753 201 112	1	1	49.690	-	818	480	165	150	32,3	28,6
400	280	753 201 113	1	1	52.915	-	910	530	180	139	36,4	25,4
400	315	753 201 114	1	1	53.625	2	910	580	180	150	36,4	28,6
400	355	753 201 115	1	1	54.075	1	910	675	180	165	36,4	32,3

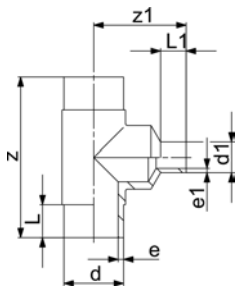
Reduced tee type L

- **PE 100 SDR 17 (ISO S8)**
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers
- * With welded reducer



d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
90	50	753 201 827	15	1	0.630	120	275	117	79	55	5.4	3.0
90	63	753 200 829	15	-	0.560	120	275	123	79	63	5.4	3.8
90	75	701 585 542	-	-	0.593	-	274	137	74	70	5.4	4.5
110	63	753 200 828	10	-	1.010	80	318	147	82	63	6.6	3.8
110	75	701 585 544	-	-	0.882	-	310	155	82	70	6.6	4.5
110	90	753 200 832	10	-	0.941	80	318	158	82	79	6.6	5.4
125	63	753 200 801	1	4	2.115	48	366	215	92	61	7.4	3.8
* 125	75	701 485 435	1	8	1.843	64	366	235	92	72	7.4	4.5
* 125	90	701 485 436	1	8	1.770	64	366	235	92	80	7.4	5.4
125	110	701 585 546	1	1	1.385	-	335	170	88	82	7.4	6.6
140	75	753 200 812	4	4	2.820	32	396	240	92	70	8.3	4.5
140	90	753 200 822	1	5	2.855	40	396	240	92	78	8.3	5.4
140	110	753 200 823	1	4	2.910	32	396	235	92	82	8.3	6.6
140	125	753 200 824	1	4	2.317	48	396	240	92	87	8.3	7.4
160	63	701 585 547	1	2	2.578	-	340	175	98	64	9.5	3.8
160	75	701 585 548	1	1	1.960	-	340	182	98	75	9.5	4.5
160	90	753 200 836	8	-	1.972	32	410	188	98	79	9.5	5.4
160	110	753 200 837	8	8	2.414	32	410	195	98	82	9.5	6.6
* 160	125	701 485 439	1	4	4.110	32	428	265	104	90	9.5	7.4
160	140	753 200 826	1	4	3.416	32	428	280	104	96	9.5	8.3
180	90	701 585 551	-	-	3.218	-	394	200	134	97	10.7	5.4
180	110	753 200 827	1	2	5.250	16	460	285	105	92	10.7	6.6
* 180	125	701 485 440	1	2	5.500	16	460	285	105	90	10.7	10.7
180	140	753 200 846	1	1	4.483	8	460	305	105	110	10.7	8.3
180	160	701 585 552	1	1	3.539	12	412	207	102	92	10.7	10.7
200	63	753 201 873	1	1	6.800	16	500	190	122	63	11.9	3.8
200	90	753 201 874	1	1	6.900	16	500	207	122	79	11.9	5.4
200	110	753 201 875	1	1	7.200	16	500	215	122	82	11.9	6.6
* 200	125	701 485 447	1	1	5.872	12	500	295	117	92	11.9	11.9
200	140	753 200 848	1	1	7.200	12	500	315	115	110	11.9	8.3
200	160	753 201 876	1	1	7.400	16	500	234	122	98	11.9	9.5
200	180	753 200 849	-	-	6.900	-	500	315	115	110	11.9	10.7
225	75	753 200 839	3	-	7.128	12	555	277	120	70	13.4	4.5
225	90	753 200 840	3	-	4.732	12	555	226	127	80	13.4	5.4
225	110	753 200 841	3	-	4.700	12	555	235	127	82	13.4	6.6
* 225	125	701 485 443	1	1	10.160	8	270	320	122	92	13.4	13.4
225	140	753 200 855	3	-	8.780	12	540	345	122	110	13.4	8.3
225	160	753 200 842	3	-	5.922	12	555	253	127	98	13.4	9.5
225	180	701 585 561	1	1	7.211	-	553	284	132	135	13.4	13.4
225	200	753 200 856	-	-	9.064	-	540	335	122	115	13.4	11.9

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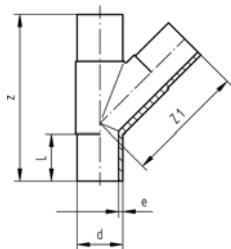
d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
250	110	753 201 878	1	1	9.400	8	575	242	130	82	14.8	6.6
250	160	753 201 879	1	1	9.800	8	575	261	130	98	14.8	9.5
250	180	753 200 857	1	1	15.000	8	576	340	130	105	14.8	10.7
250	200	753 200 858	-	-	15.440	-	576	350	130	112	14.8	11.9
250	225	753 200 859	1	1	15.620	8	576	370	130	120	14.8	13.4
280	200	753 200 860	1	-	19.200	8	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	110	753 200 851	1	1	15.621	4	695	277	150	82	18.7	6.6
315	160	753 200 852	1	-	12.200	4	695	296	150	102	18.7	9.5
315	200	753 200 863	-	-	18.700	4	690	480	150	134	18.7	11.9
315	225	753 200 853	1	-	14.869	4	650	335	170	145	18.7	13.4
315	250	753 200 854	1	-	15.500	4	695	325	150	130	18.7	14.8
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	3	818	480	165	139	21.1	16.6
355	315	753 200 867	-	-	37.740	3	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	1	1	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

PF 2 90 703 004

53 25 10

Tee 45° equal type L

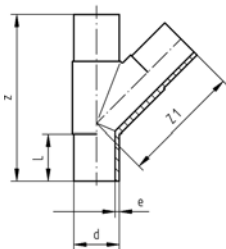
- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure



d [mm]	Code	SP	GP	kg	z [mm]	z1 [mm]	L [mm]	e [mm]
63	753 251 011	26	26	0.500	255	158	63	5,8
75	753 251 012	16	-	0.800	301	190	70	6,8
90	753 251 013	10	10	1.373	368	234	79	8,2
110	753 251 014	6	6	1.800	395	260	82	10,0

PF 2 51 301 001

53 25 10



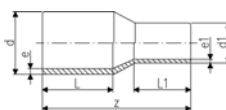
PF 2 51 301 001

Tee 45° equal type L

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure

d [mm]	Code	SP	GP	kg	z [mm]	z1 [mm]	L [mm]	e [mm]	
90	753 251 063	10	-	0.800	368	234	79	5,4	
110	753 251 064	6	-	1.400	395	260	82	6,6	

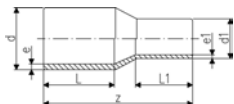
Reducer type L



- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
25	20	701 485 280	1	40	0.022	3840	115	52	52	3,0	3,0	
32	20	701 485 281	1	100	0.027	2400	120	54	52	3,0	3,0	
32	25	701 485 282	1	45	0.032	2925	120	54	52	3,7	3,0	
40	20	701 485 283	1	40	0.040	2600	130	57	52	3,7	3,0	
40	25	701 485 284	1	50	0.043	2500	130	57	52	3,7	3,0	
40	32	701 485 285	1	40	0.050	2000	130	57	53	3,7	3,0	
50	20	701 485 286	1	35	0.067	2275	150	63	52	4,6	3,0	
50	25	701 485 287	1	45	0.068	2550	140	63	53	4,6	3,0	
50	32	701 485 288	1	40	0.071	2000	140	63	53	4,6	3,0	
50	40	701 485 289	1	25	0.083	1625	140	63	57	4,6	3,7	
63	32	701 485 290	1	50	0.109	900	150	65	53	5,8	3,0	
63	40	701 485 291	1	50	0.130	900	150	65	57	5,8	3,7	
63	50	701 485 292	1	50	0.130	900	150	65	63	5,8	4,6	
75	40	701 485 293	1	60	0.178	720	170	72	57	6,8	3,7	
75	50	701 485 294	1	50	0.191	600	170	72	63	6,8	4,6	
75	63	701 485 295	1	50	0.216	600	170	72	65	6,8	5,8	
90	50	701 485 296	1	18	0.291	432	190	81	63	8,2	4,6	
90	63	701 485 297	1	18	0.317	432	190	81	65	8,2	5,8	
90	75	701 485 298	1	18	0.355	432	190	81	70	8,2	6,8	
110	63	701 485 299	1	24	0.469	288	205	86	65	10,0	5,8	
110	75	701 485 300	1	10	0.497	240	205	86	70	10,0	6,8	
110	90	701 485 301	1	9	0.557	216	205	86	81	10,0	8,2	
125	63	701 585 100	1	22	0.579	264	200	87	63	11,4	5,8	
125	75	701 485 302	1	8	0.668	180	215	92	72	11,4	6,8	
125	90	701 485 303	1	15	0.683	180	215	92	81	11,4	8,2	
125	110	701 485 304	6	15	0.786	180	215	92	86	11,4	10,0	
140	75	753 901 086	1	14	0.560	112	230	110	70	12,7	6,8	
140	90	753 901 087	14	10	0.690	112	230	110	79	12,7	8,2	
140	110	701 585 103	12	12	0.820	144	230	110	82	12,7	10,0	
140	125	701 585 125	1	12	0.988	144	235	110	90	12,7	11,4	
160	90	701 585 104	10	-	1.060	80	248	120	79	14,6	8,2	
160	110	701 485 305	8	5	1.298	90	245	102	86	14,6	10,0	
160	125	701 485 306	5	5	1.403	90	245	102	92	14,6	11,4	
160	140	753 901 032	10	10	1.350	80	260	120	110	14,6	12,7	
180	90	753 901 073	8	8	1.530	64	245	105	79	16,4	8,2	
180	110	753 901 074	8	8	1.816	64	270	105	82	16,4	10,0	

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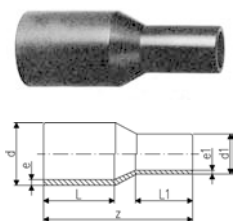


d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	z	L [mm]	L1 [mm]	e [mm]	e1 [mm]
180	125	701 485 307	1	6	1.720	72	255	107	92	16,4	11,4
180	140	753 901 075	8	8	1.980	64	270	120	110	16,4	12,7
180	160	701 485 308	6	6	1.980	72	255	107	102	16,4	14,6
200	140	753 901 066	6	6	2.310	48	275	120	110	18,2	12,7
200	160	701 485 309	6	6	2.370	72	265	117	102	18,2	14,6
200	180	701 485 310	4	4	2.681	48	265	117	107	18,2	16,4
225	140	753 901 067	4	4	2.900	32	295	130	110	20,5	12,7
225	160	701 485 311	4	4	3.118	48	280	122	102	20,5	14,6
225	180	701 485 312	4	4	3.268	32	280	122	107	20,5	16,4
225	200	701 485 313	3	3	3.530	36	280	122	117	20,5	18,2
250	160	701 485 278	7	-	2.385	28	290	130	100	22,7	14,6
250	180	753 901 068	6	6	4.050	24	295	130	105	22,7	16,4
250	200	701 485 279	6	-	2.385	24	302	130	112	22,7	18,2
250	225	753 901 002	6	-	2.385	24	332	130	120	22,7	20,5
280	200	753 901 098	6	6	6.850	24	333	140	112	25,4	18,2
280	225	753 901 099	1	5	6.090	20	335	140	120	25,4	20,5
280	250	753 901 003	5	-	2.385	20	340	140	130	25,4	22,7
315	200	701 585 115	1	2	2.385	32	380	180	134	28,6	18,2
315	225	753 901 097	4	-	7.790	16	365	150	120	28,6	20,5
315	250	753 901 005	4	-	2.385	16	365	150	130	28,6	22,7
315	280	753 901 012	6	6	8.800	16	365	150	139	28,6	25,4
355	250	753 901 013	2	6	9.100	8	390	165	130	32,3	22,7
355	280	753 901 014	2	6	9.500	8	390	165	139	32,3	25,4
355	315	753 901 015	2	6	9.900	8	390	165	150	32,3	28,6
400	280	753 901 016	2	6	10.420	8	415	180	139	36,4	25,4
400	315	753 901 017	2	6	11.130	8	415	180	150	36,4	28,6
400	355	753 901 018	2	6	11.600	8	420	180	165	36,4	32,3
450	280	753 901 019	2	6	16.200	4	389	195	139	40,9	25,4
450	315	753 901 020	2	6	16.700	4	390	195	150	40,9	28,6
450	355	753 901 022	2	6	17.500	4	393	195	164	40,9	32,3
450	400	753 901 024	2	3	18.500	4	395	195	179	40,9	36,4
500	315	753 901 025	2	3	21.900	4	422	212	150	45,5	28,6
500	355	753 901 026	2	3	22.600	4	424	212	164	45,5	32,3
500	400	753 901 027	2	3	23.600	4	426	212	179	45,5	36,4
500	450	753 901 029	2	3	25.100	4	428	212	195	45,5	40,9
560	355	753 901 030	1	3	30.100	4	459	230	164	50,9	32,3
560	400	753 901 039	1	3	31.000	4	461	230	179	50,9	36,4
560	450	753 901 040	1	3	32.400	4	463	230	195	50,9	40,9
560	500	753 901 043	1	3	34.100	4	466	230	212	50,9	45,5
630	400	753 901 044	1	3	41.900	3	502	250	179	57,3	36,4
630	450	753 901 045	1	3	43.100	3	503	250	195	57,3	40,9
630	500	753 901 049	1	3	44.700	3	506	250	212	57,3	45,5
630	560	753 901 050	1	3	46.800	3	506	250	230	57,3	50,9

PF 2 90 703 001

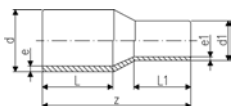
Reducer type L

- **PE 100 SDR 17** (ISO S8)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers



d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	z	L [mm]	L1 [mm]	e [mm]	e1 [mm]
90	63	753 900 872	40	40	0.216	320	182	79	70	5,4	3,8
90	75	753 900 870	40	40	0.202	320	185	79	70	5,4	4,5
110	63	753 900 877	30	30	0.326	240	185	82	63	6,6	3,8
110	90	701 485 411	8	8	0.650	192	205	85	80	6,6	5,4
125	63	753 900 882	10	10	0.610	160	200	87	63	7,4	3,8
125	90	701 485 413	8	8	0.504	144	215	90	80	7,4	5,4
125	110	701 485 414	8	8	0.574	144	215	90	85	7,4	6,6
140	75	753 900 886	14	14	0.560	112	230	112	70	8,3	4,5
140	90	753 900 887	14	14	0.655	112	230	112	79	8,3	5,4
140	110	753 900 884	12	12	0.660	144	230	112	82	8,3	6,6
140	125	753 900 885	12	12	0.712	96	235	115	87	8,3	7,4
160	90	753 900 888	10	-	0.752	80	248	120	85	9,5	5,4
160	110	701 485 415	1	4	0.898	72	245	100	85	9,5	6,6
160	125	701 485 416	1	8	0.956	144	245	100	90	9,5	7,4
160	140	753 900 831	10	10	1.380	80	260	120	110	9,5	8,3

table continued next page



d [mm]	d1 [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
180	90	753 900 873	8	8	1.010	64	237	105	79	10,7	5,4
180	110	753 900 874	8	-	1.600	64	270	120	92	10,7	6,6
180	125	753 900 891	8	4	1.710	72	255	105	90	10,7	7,4
180	140	753 900 875	8	8	1.720	64	270	120	110	10,7	8,3
180	160	701 485 418	4	4	1.401	72	255	105	100	10,7	9,5
200	140	753 900 866	1	6	1.800	48	275	120	110	11,9	8,3
200	160	701 485 419	4	4	1.661	48	265	115	100	11,9	9,5
200	180	701 485 420	4	4	2.580	48	265	115	105	11,9	10,7
225	140	753 900 867	4	4	1.450	32	280	120	100	13,4	8,3
225	160	701 485 421	4	4	2.025	48	280	120	100	13,4	9,5
225	180	701 485 422	4	4	2.199	32	280	120	105	13,4	10,7
225	200	701 485 423	3	3	3.750	36	280	120	115	13,4	11,9
250	160	753 900 800	7	-	2.850	28	290	130	100	14,8	9,5
250	180	753 900 868	6	6	3.100	24	295	130	105	14,8	10,7
250	200	753 900 801	6	-	3.210	24	302	130	112	14,8	11,9
250	225	753 900 802	6	6	2.385	24	332	162	120	14,8	13,4
280	200	753 900 898	6	6	3.800	24	333	140	112	16,6	11,9
280	225	753 900 899	5	5	4.100	20	335	140	120	16,6	13,4
280	250	753 900 803	5	-	4.352	20	340	140	130	16,6	14,8
315	200	701 585 618	-	-	6.200	-	380	180	134	18,7	11,9
315	225	753 900 807	4	-	6.200	16	365	150	120	18,7	13,4
315	250	753 900 805	4	-	6.420	16	365	150	130	18,7	14,8
315	280	753 900 806	4	-	5.940	16	365	150	140	18,7	16,6
355	250	753 900 808	1	6	7.082	8	390	165	130	21,1	14,8
355	280	753 900 809	2	6	6.728	8	390	165	140	21,1	16,6
355	315	753 900 810	2	6	7.240	8	390	165	150	21,1	18,7
400	280	753 900 811	2	1	7.930	8	415	180	140	23,7	16,6
400	315	753 900 812	2	6	9.949	8	415	180	150	23,7	18,7
400	355	753 900 813	2	3	9.620	8	420	180	165	23,7	21,1
450	280	753 900 814	2	3	11.500	4	389	195	140	26,7	16,6
450	315	753 900 815	2	3	11.805	4	390	195	150	26,7	18,7
450	355	753 900 816	2	3	11.900	4	393	195	164	26,7	21,1
450	400	753 900 817	2	3	12.700	4	395	195	179	26,7	23,7
500	315	753 900 818	2	3	15.500	4	422	212	150	29,7	18,7
500	355	753 900 819	2	3	15.700	4	424	212	164	29,7	21,1
500	400	753 900 820	1	3	16.200	4	426	212	179	29,7	23,7
500	450	753 900 821	2	3	17.000	4	428	212	195	29,7	26,7
560	355	753 900 822	1	3	21.400	4	459	230	164	33,2	21,1
560	400	753 900 823	1	3	21.700	4	461	230	179	33,2	23,7
560	450	753 900 824	1	3	22.300	4	463	230	195	33,2	26,7
560	500	753 900 825	1	3	23.200	4	466	230	212	33,2	29,7
630	400	753 900 826	1	3	29.700	3	502	250	179	37,4	23,7
630	450	753 900 827	1	3	30.100	3	503	250	195	37,4	26,7
630	500	753 900 828	1	3	30.800	3	506	250	212	37,4	29,7
630	560	753 900 829	1	3	31.900	3	506	250	230	37,4	33,3

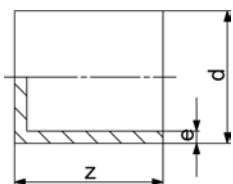
PF 2 90 703 002

End cap type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

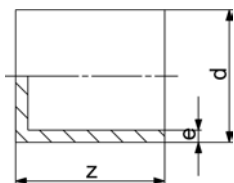
Note:

* Fabricated fitting made from pipe



d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	e [mm]
20	701 485 260	1	50	0.009	7000	52	3,0
25	701 485 261	1	50	0.013	4800	52	3,0
32	701 485 262	1	50	0.017	4800	54	3,0
40	701 485 263	1	100	0.031	2400	57	3,7
50	701 485 264	1	30	0.050	2880	63	4,6
63	701 485 265	1	50	0.086	1200	65	5,8
75	701 485 266	1	40	0.145	960	80	6,8
90	701 485 267	1	50	0.240	600	90	8,2
110	701 485 268	1	30	0.376	360	98	10,0
125	701 485 269	1	12	0.547	288	105	11,4

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PF 2 90 703 001

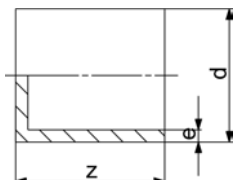
d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	e [mm]
140	753 961 016	12	12	0.727	192	136	12,7
160	701 485 271	1	8	1.035	192	120	14,6
180	701 485 272	1	10	1.369	120	128	16,4
200	701 485 273	1	5	1.839	60	138	18,2
225	701 485 274	1	5	2.532	60	148	20,5
250	701 485 275	4	-	3.927	32	205	22,7
280	753 960 922	2	-	8.045	16	235	25,4
315	753 960 923	2	-	7.176	16	255	28,6
355	753 960 924	2	-	9.780	16	280	32,3
400	753 960 925	2	-	13.370	8	310	36,4
* 450	753 960 926	-	-	20.800	6	275	40,9
* 500	753 960 927	-	-	28.400	6	297	45,5
* 560	753 960 928	-	-	39.100	4	325	50,9
* 630	753 960 929	-	-	59.700	4	355	57,3

End cap type L

- **PE 100 SDR 17** (ISO S8)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

Note:

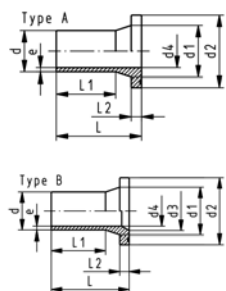
* Fabricated fitting made from pipe



PF 2 90 703 001

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	e [mm]
50	753 960 810	40	40	0.036	2560	70	3,0
63	753 960 811	15	-	0.058	960	82	3,8
75	753 960 812	40	-	0.105	640	92	4,5
90	701 485 397	1	50	0.220	600	90	5,2
110	701 485 398	1	30	0.350	360	98	6,3
125	701 485 399	1	12	0.520	288	105	7,1
140	753 960 816	12	12	0.522	192	136	8,3
160	701 485 401	1	8	0.928	192	120	9,1
180	701 485 402	1	10	1.242	120	128	10,3
200	701 485 403	1	5	1.675	60	138	11,4
225	701 485 404	1	5	2.287	60	148	12,8
250	753 960 821	4	-	2.547	32	205	14,8
280	753 960 822	2	-	3.523	16	235	16,6
315	753 960 823	2	-	4.758	16	255	18,7
355	753 960 824	2	-	6.510	16	280	21,1
400	753 960 825	2	1	9.330	8	310	23,7
* 450	753 960 826	-	-	17.798	6	265	26,7
* 500	753 960 827	-	-	21.400	6	287	29,7
* 560	753 960 828	-	-	29.400	4	310	33,2
* 630	753 960 829	-	-	41.400	4	340	37,4

538000
014900



Flange adaptor LS PE100 SDR11

Combined jointing face: Flat and serrated

Model:

- According to ISO 1855-2 (Gas)
- 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 and 037
- 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]	Code	SP	GP	kg
20	15	753 800 031	50	50	0.060
25	20	753 800 032	5	30	0.041
32	25	753 800 008	5	25	0.051
40	32	753 800 009	2	60	0.076
50	40	753 800 010	2	50	0.107
63	50	701 490 011	1	70	0.194
* 75	65	701 490 012	1	30	0.322
* 90	80	701 490 013	1	24	0.476
* 110	100	701 490 014	1	16	0.718
* 125	100	701 490 015	1	16	0.836
* 140	125	701 490 016	1	6	1.380
* 160	150	701 490 017	1	6	1.723
* 180	150	701 490 018	1	6	1.873
* 200	200	701 490 019	1	4	2.927
* 225	200	701 490 020	1	4	2.972
* 250	250	753 800 021	1	6	4.890
* 280	250	753 800 022	1	5	4.925
* 315	300	753 800 023	1	2	6.393
* 355	350	753 800 024	1	2	10.400
* 400	400	753 800 025	1	1	14.600
* 450	500	753 800 026	1	1	24.800
* 500	500	753 800 027	1	1	27.400
* 560	600	753 800 028	1	1	40.000
* 630	600	753 800 029	1	1	42.300

d [mm]	DN [mm]	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	PF
20	15	27	45		16	85	41	7	3.0	2 51 301 001
25	20	33	58		20	85	41	9	3.0	2 51 301 001
32	25	40	68		26	85	44	10	3.0	2 51 301 001
40	32	50	78		32	85	49	11	3.7	2 51 301 001
50	40	61	88		40	104	55	12	4.6	2 51 301 001
63	50	75	102		51	98	69	14	5.8	2 51 301 001
* 75	65	89	122	66	61	125	89	16	6.8	2 51 301 001
* 90	80	105	138	78	73	140	103	17	8.2	2 51 301 001
* 110	100	125	158	100	90	160	117	18	10.0	2 51 301 001
* 125	100	132	158	114	102	170	125	25	11.4	2 51 301 001
* 140	125	155	188	127	114	200	147	25	12.7	2 51 301 001
* 160	150	175	212	158	130	200	147	25	14.6	2 51 301 001
* 180	150	180	212	158	147	200	170	30	16.4	2 51 301 001
* 200	200	232	268	203	163	200	128	32	18.2	2 51 301 001
* 225	200	235	268	210	184	200	138	32	20.5	2 51 301 001
* 250	250	285	320	245	204	219	138	35	22.7	2 51 301 002
* 280	250	291	320	265	229	231	144	35	25.4	2 51 301 002
* 315	300	335	370	300	257	239	158	35	28.6	2 51 301 002
* 355	350	373	430	340	290	260	176	40	32.3	2 51 301 008
* 400	400	427	482	385	327	290	186	46	36.3	2 51 301 008
* 450	500	514	585	400	368	333	195	60	40.9	2 51 301 008
* 500	500	530	585	440	409	350	212	60	45.5	2 51 301 008
* 560	600	615	685	490	458	365	230	60	50.9	2 51 301 008
* 630	600	642	685	545	515	385	250	60	57.3	2 51 301 008

PF 2 51 301 001

014900
538001

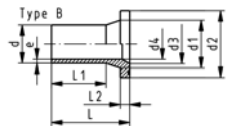
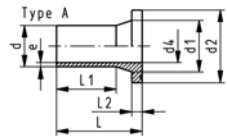
Flange adaptor LS PE100 SDR17/17.6

Combined jointing face: Flat and serrated

Model:

- 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 and 037
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 5 bar Gas / 10 bar Water

* Type B with chamfer

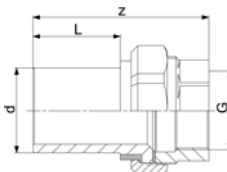


PF 2 90 703 001

d [mm]	DN [mm]	Code	SP	GP	kg	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
90	80	701 490 063	1	24	0.385	105	138		79	140	103	17	5.4
110	100	701 490 064	1	16	0.531	125	158		96	160	117	18	6.6
* 125	100	701 490 065	1	16	0.629	132	158	114	110	170	125	25	7.4
* 140	125	701 490 066	1	6	1.073	155	188	127	123	200	147	25	8.3
* 160	150	701 490 067	1	6	1.346	175	212	158	141	200	147	25	9.5
180	150	701 490 068	1	6	1.364	180	212		158	200	170	30	10.7
* 200	200	701 490 069	1	4	2.212	232	268	203	176	200	128	32	11.9
* 225	200	701 490 070	1	4	2.233	235	268	210	198	200	138	32	13.4
* 250	250	753 800 096	1	6	3.595	285	320	245	220	220	148	25	14.8
* 280	250	753 800 097	1	5	3.355	291	320	265	246	230	154	25	16.6
* 315	300	753 800 098	1	2	5.470	335	370	300	277	242	166	36	18.7
* 355	350	753 800 099	2	2	16.200	373	430	340	312	261	179	30	21.1
* 400	400	753 800 100	1	1	10.300	427	483	385	352	290	196	33	23.7
450	500	753 800 101	1	1	15.800	514	585		396	333	195	60	26.7
500	500	753 800 102	1	1	19.100	530	585		440	350	212	60	29.7
560	600	753 800 103	1	1	27.500	615	685		493	365	230	60	33.2
630	600	753 800 104	1	1	30.000	642	685		555	385	250	60	37.4

Union adaptor

- With female thread and PE-union end
- The Code Nr. includes the entire union (galvanised)
- **PE 100 SDR 11 (ISO S5)**



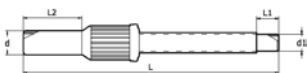
PF 2 90 703 001

d [mm]	Rp [inch]	Code	SP	GP	kg	pcs.-Pal.	L [mm]	L2 [mm]	SW1 [mm]	G [inch]
20	½	701 485 560	1	30	0.152	2880	94	52	27	1
25	¾	701 485 561	1	25	0.252	2400	100	52	32	1 1/4
32	1	701 485 562	1	20	0.333	1920	108	54	34	1 1/2
40	1 ¼	701 485 563	1	12	0.563	780	114	57	43	2
50	1 ½	701 485 564	1	15	0.765	750	124	65	50	2 1/4
63	2	701 485 565	1	16	1.054	624	134	65	61	2 3/4

Transition fittings PE/steel

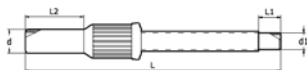
- **PE 100 SDR 11 (ISO S5)**
- 6 bar Gas / 16 bar Water
- Electrofusion weldable
- Steel pipe acc. to EN 10208-1, PE coated for corrosion resistance

* 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

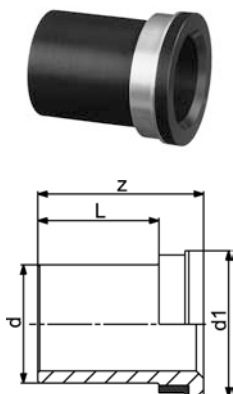
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PF 1 27 142 415

d [mm]	d1 [inch]	Code	kg	d [mm]	L [mm]	L1 [mm]	L2 [mm]
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

Union bush



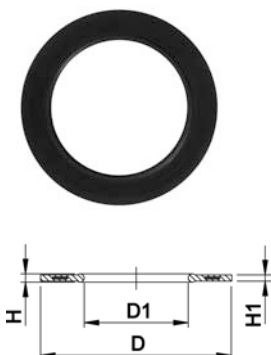
PF 2 90 703 001

d [mm]	Code	SP	GP	kg	pcs.-Pal.	z [mm]	L [mm]	d1 [mm]
20	701 485 570	10	-	0.040	1920	69	52	30
25	701 485 571	1	40	0.059	1920	70	52	39
32	701 485 572	1	30	0.081	1170	78	54	44
40	701 485 573	30	20	0.127	780	80	57	56
50	701 485 574	1	10	0.148	480	90	65	62
63	701 485 575	1	12	0.239	468	90	65	78

Flat gasket

Model:

- For union adaptors



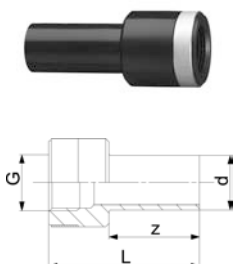
PF 2 90 703 999

d [mm]	Code	SP	GP	kg	pcs.-Pal.	D [mm]	D1 [mm]	H [mm]
20	701 479 360	-	-	0.010	-	30.0	20	2
25	701 479 361	-	-	0.001	-	38.5	25	2
32	701 479 362	-	-	0.003	-	44.0	32	2
40	701 479 363	-	-	0.003	-	56.0	40	2
50	701 479 364	-	-	0.005	-	62.0	46	2
63	701 479 365	-	-	0.003	-	78.0	60	2

Instrument installation spigots PE80 thread G

Model:

- For the connection of measuring instruments only
- Usable with all types of electrofusion couplers



PF 2 90 703 001

d [mm]	G [inch]	Code	SP	GP	kg	pcs.-Pal.	L [mm]	z [mm]
20	½	701 473 809	-	-	0.050	-	90	52
25	½	701 473 803	-	-	0.050	-	90	52
25	¾	701 473 810	1	1	0.052	-	90	52
32	½	701 473 804	-	-	0.060	-	90	52
32	1	701 473 811	-	-	0.060	-	90	54
40	½	701 473 812	-	-	0.049	-	75	57
40	1 ¼	701 473 806	1	1	0.081	-	100	57
50	½	701 473 813	-	-	0.075	-	80	63
50	1 ¼	701 473 805	1	1	0.094	-	80	63
50	1 ½	701 473 807	-	-	0.100	-	105	63
63	½	701 473 814	1	1	0.107	-	80	65
63	2	701 473 808	-	-	0.110	-	110	65



Welding nozzles

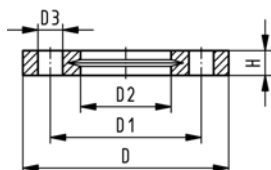
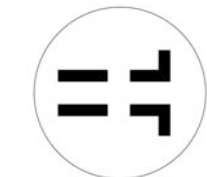
- **PE 80 SDR 11 (ISO S5)**
- For repair of non-pressure water pipelines
- Prevents water from entering the fusion zone of electrofusion couplers
- Usable with all types of electrofusion couplers
- Combination only with SDR 11 (ISO S5) pipes

d [mm]	Code	SP	GP	kg	pcs.-Pal.	d1 [mm]
32	701 477 983	-	-	0.010	-	32
40	701 477 984	-	-	0.009	-	40
50	701 477 985	-	-	0.006	-	50
63	701 477 986	-	-	0.012	-	63
75	701 477 987	-	-	0.040	-	75
90	701 477 988	-	-	0.017	-	90
110	701 477 989	-	-	0.050	-	110
125	701 477 990	-	-	0.031	-	125
160	701 477 992	-	-	0.080	-	160
180	701 477 993	-	-	0.120	-	180
200	701 477 994	-	-	0.160	-	200
225	701 477 995	-	-	0.210	-	225

PF 2 90 703 001

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**

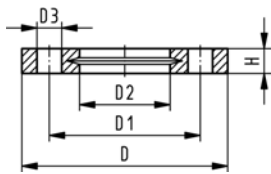
AL: number of holes

* Combined version, metric-ANSI

d [mm]	Inch	DN [mm]	PN	Code	SP	GP	kg	pcs.-Pal.
20		15	16	727 700 406	56	-	0.093	3024
25		20	16	727 700 407	38	-	0.120	2052
32		25	16	727 700 408	80	-	0.151	2880
40		32	16	727 700 409	40	-	0.244	1080
50		40	16	727 700 410	30	-	0.297	810
63		50	16	727 700 411	25	-	0.362	675
75		65	16	727 700 412	19	-	0.487	513
90		80	16	727 700 513	15	-	0.544	540
110		100	16	727 700 514	13	-	0.643	468
125		100	16	727 700 515	13	-	0.635	468
140		125	16	727 700 516	10	-	0.842	360
160	6	150	16	727 700 517	-	-	1.200	220
180		150	16	727 700 518	-	-	1.200	220
* 200	8	200	16	727 700 519	-	-	1.400	154
* 225	9	200	16	727 700 520	-	-	1.400	154
250		250	16	727 700 521	-	-	2.052	114
280		250	16	727 700 522	-	-	1.700	114
315		300	16	727 700 523	-	-	2.400	56
355		350	10	727 700 524	-	-	4.440	-
400		400	10	727 700 525	-	-	5.624	-

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20	95	65.0	28	14	16	4	M12
25	105	75.0	34	14	17	4	M12
32	115	85.0	42	14	18	4	M12
40	140	100.0	51	18	20	4	M16
50	150	110.0	62	18	22	4	M16
63	165	125.0	78	18	24	4	M16
75	185	145.0	92	18	26	4	M16
90	200	160.0	108	18	27	8	M16

table continued next page



d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
110	220	180.0	128	18	28	8	M16
125	220	180.0	135	18	28	8	M16
140	250	210.0	158	18	30	8	M16
160	285	241.0	178	22	32	8	M20
180	285	240.0	188	22	32	8	M20
* 200	340	296.5	235	22	34	8	M20
* 225	340	296.5	238	22	34	8	M20
250	395	350.0	288	22	38	12	M20
280	395	350.0	294	22	38	12	M20
315	445	400.0	338	22	42	12	M20
355	515	460.0	376	22	46	16	M20
400	574	515.0	430	26	50	16	M24

PF 2 34 238 031

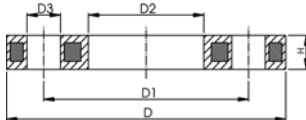
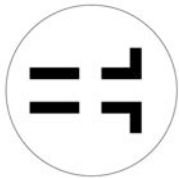
27 70 02
27 70 03

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**

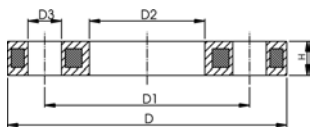
AL: number of holes



d [mm]	d [inch]	DN [mm]	PN	Code	kg	pcs.-Pal.
20		15	16	727 700 206	0.216	3888
25		20	16	727 700 207	0.279	2430
32		25	16	727 700 208	0.429	1836
40		32	16	727 700 209	0.621	1080
50		40	16	727 700 210	0.722	918
63		50	16	727 700 211	1.084	810
75		65	16	727 700 212	1.349	594
90		80	16	727 700 313	1.390	486
110		100	16	727 700 314	1.407	468
125		100	16	727 700 315	1.408	468
140		125	16	727 700 316	2.318	288
160	6	150	16	727 700 317	3.491	-
180		150	16	727 700 318	3.108	200
200		200	16	727 700 319	5.600	154
225		200	16	727 700 320	5.533	154
250		250	16	727 700 321	6.632	108
280		250	16	727 700 322	6.573	108
315		300	16	727 700 323	7.903	55
355		350	16	727 700 324	14.587	40
400		400	16	727 700 325	20.034	40

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
20	95	65	28	14	12	4	M12
25	105	75	34	14	12	4	M12
32	115	85	42	14	16	4	M12
40	140	100	51	18	16	4	M16
50	150	110	62	18	20	4	M16
63	165	125	78	18	20	4	M16
75	185	145	92	18	20	4	M16
90	200	160	108	18	20	8	M16
110	220	180	128	18	20	8	M16
125	220	180	135	18	20	8	M16
140	250	210	158	18	24	8	M16
160	285	240	178	22	24	8	M20
180	285	240	188	22	24	8	M20
200	340	295	235	22	27	8	M20
225	340	295	238	22	27	8	M20
250	395	350	288	22	30	12	M20
280	395	350	294	22	30	12	M20

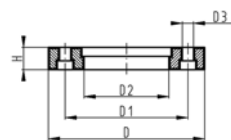
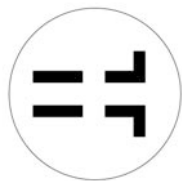
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PF 2 34 238 022

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC	
315	445	400	338	22	34	12	M20	
355	515	460	376	22	40	16	M20	
400	574	515	430	26	40	16	M24	

24 70 04



PF 2 55 337 003

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:

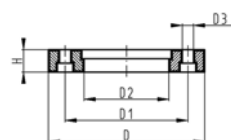
flat side = bolt side

profiled side = flange adaptor side

AL: number of holes

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	24.300	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	

24 70 03



PF 2 55 337 003

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:

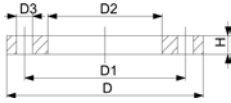
flat side = bolt side

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	3.320	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:

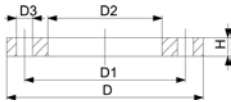
- Galvanized steel, suitable for underground laying
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 16**

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	

PF 2 90 703 005

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**

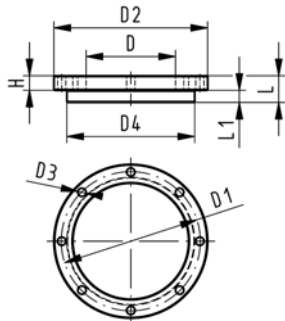
AL: number of holes

* 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	

PF 2 90 703 005

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

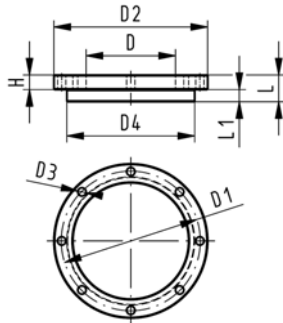
L: length of the End Blank

d [mm]	DN [mm]	PN	Code	kg	pcs.-Pal.	
63	50	10	727 700 611	0.531	-	
75	65	10	727 700 612	0.901	-	
90	80	10	727 700 613	1.054	-	
110	100	10	727 700 614	1.199	-	
125	100	10	727 700 615	1.201	-	
140	125	10	727 700 616	1.748	-	
160	150	10	727 700 617	2.312	-	
180	150	10	727 700 618	2.443	-	
200	200	10	727 700 619	3.961	-	
225	200	10	727 700 620	3.956	-	
250	250	10	727 700 621	5.425	-	
280	250	10	727 700 622	19.781	-	
315	300	10	727 700 623	8.602	-	
355	350	10	727 700 624	23.184	-	
400	400	10	727 700 625	30.304	-	
450	500	10	727 700 626	43.485	-	
500	500	10	727 700 627	46.203	-	
560	600	10	727 700 628	65.823	-	
630	600	10	727 700 629	67.056	-	

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	

PF 2 34 238 037

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	pcs.-Pal.	
63	50	16	753 700 611	0.674	-	
75	65	16	753 700 612	0.910	-	
90	80	16	753 700 613	0.921	-	
110	100	16	753 700 614	1.148	-	
125	100	16	753 700 615	1.678	-	
140	125	16	753 700 616	1.913	-	
160	150	16	753 700 617	2.373	-	
180	150	16	753 700 618	2.430	-	
200	200	16	753 700 619	3.495	-	
225	200	16	753 700 620	3.744	-	
250	250	16	753 700 621	6.051	-	
280	250	16	753 700 622	6.305	-	
315	300	16	753 700 623	8.894	-	
355	350	16	753 700 624	23.198	-	
400	400	16	753 700 625	30.766	-	
450	500	10	753 700 626	44.271	-	
500	500	10	753 700 627	47.165	-	
560	600	10	753 700 628	67.147	-	
630	600	10	753 700 629	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	

PF 2 34 238 038

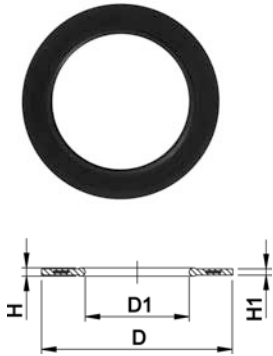
45 44 07

Profile flange gasket metric

Model:

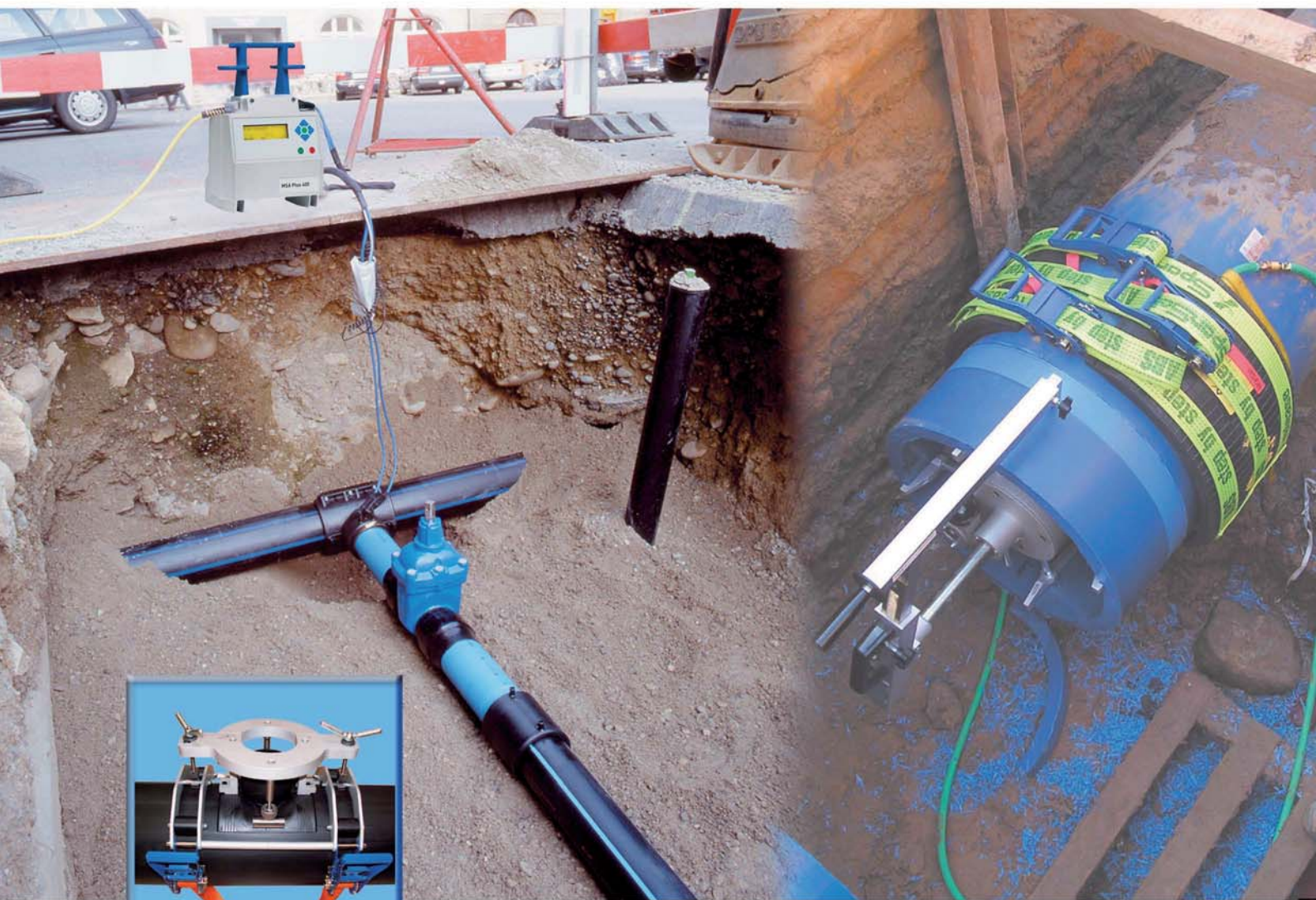
- For all metric GF Flange Adaptors
- Profile Gasket with steel insert (type G-ST-P/K)
- material steel insert: carbon steel
- NBR/DUO = Nitrile rubber, hardness approx. 80° Shore
- Suitable for drinking water and gas applications
- Approved acc. to DVGW standard DIN EN 682
- Approved acc. to DVGW W 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	pcs.-Pal.	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
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

PF 2 55 338 003



Machines & Tools

Electrofusion units and accessories

MSA Plus 400

Traceability electrofusion unit With USB interfaces



NEW, environmentally friendly manufactured Electrofusion unit in accordance with EU directive 2002/95/EU (RoHS).

Professional Electrofusion unit for traceability of piping system components from raw material to completed Electrofusion joint (in accordance with ISO 12176). The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is equipped with compact flash memory card (exchangeable data carrier) and either a barcode reader pen or barcode scanner. The unit is robust, light and easy to use. The menu has up to 27 different languages. Scope of delivery includes: 1 transport case, 1 USB memory stick, 1 pair of angle adapter clips 4.0 mm, operating instructions, configuration card and Software MSA WIN-WELD.

For printer or PC communication, the USB cable (799350619) is required.

Technical Data

Ambient temperature	-10 °C to +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Interfaces	USB (type A) for printer communication and to load software updates USB (type B) for PC communication
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	284 x 440 x 195 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LCD graphic, background light, contrast adjustment
Size display (WxH)	132 x 39 mm
Type size	8 mm
Languages	Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Korean, Latvian, Lithuanian, Macedonian, Malaysian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish
Warranty	24 months

Type	Code	kg	Description	
MSA Plus 400	799 350 580	15.784	barcode reader pen, transport case	
MSA Plus 400	799 350 581	15.926	barcode scanner, transport case	

PF 2 51 306 003



MSA Plus 350

Record electrofusion unit

With USB interfaces

NEW, environmentally friendly manufactured Electrofusion unit in accordance with EU directive 2002/95/EU (RoHS).

Professional Electrofusion unit for recording jointing data of Electrofusion components as a basis for electronic joint recording. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is equipped with either a barcode reader pen or with barcode scanner. The unit is robust, light and easy to use. The menu has up to 27 different languages. Scope of delivery includes: transport box, 1 USB memory stick, 1 pair of angle adapter clips 4.0 mm, operating instructions, configuration card and Software MSA WIN-WELD.

To read out the fusion protocols, either the USB cable (799 350 619) or the USB memory stick (799 350 622) is required.

Technical Data

Ambient temperature	-10 °C to +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Interfaces	USB (type A) for printer communication and to load software updates USB (type B) for PC communication
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	284 x 440 x 195 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LCD graphic, background light, contrast adjustment
Size display (WxH)	132 x 39 mm
Type size	8 mm
Languages	Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Korean, Latvian, Lithuanian, Macedonian, Malaysian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish
Warranty	24 months

Type	Code	kg	Description	
MSA Plus 350	799 350 570	14.500	barcode reader pen, transport case	
MSA Plus 350	799 350 571	15.852	barcode scanner, transport case	

PF 2 51 306 003



MSA Plus 300

Automatic electrofusion unit

With USB interfaces

NEW, environmentally friendly manufactured Electrofusion unit in accordance with EU directive 2002/95/EU (RoHS).

Automatic Electrofusion unit with barcode reader pen, optional with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. The menu has up to 27 different languages. Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm, operating instructions and configuration card.

To load software updates the USB memory stick (799 350 622) is required.

Technical Data

Ambient temperature	-10 °C to +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Interfaces	USB (type A) to load software updates USB (type B) for PC communication
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	284 x 440 x 195 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LCD graphic, background light, contrast adjustment
Size display (WxH)	132 x 39 mm
Type size	8 mm
Languages	Brasilian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Italian, Korean, Latvian, Lithuanian, Macedonian, Malaysian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovakian, Slovenian, Spanish, Swedish, Turkish
Warranty	24 months

Type	Code	kg	Description	
MSA Plus 300	799 350 560	15.797	barcode reader pen, transport case	
MSA Plus 300	799 350 561	15.737	barcode scanner, transport case	

PF 2 51 306 003



MSA Plus 250 Automatic electrofusion unit

NEW, environmentally friendly manufactured Electrofusion unit in accordance with EU directive 2002/95/EU (RoHS).

Automatic Electrofusion unit with barcode reader pen, optional with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. Single push-button operation, display shows fusion time and energy consumed. Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm and operating instructions.

Technical Data

Ambient temperature	-10 °C to +45 °C
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	284 x 440 x 195 mm
Weight incl. cables	ca. 11,5 kg, light-weight aluminium housing
Display	LED 1 x 4 N, 7 Segments
Size display (WxH)	50 x 18 mm
Type size	14 mm
Warranty	24 months

Type	Code	kg	Description	
MSA Plus 250	799 350 550	15.222	barcode reader pen, transport case	
MSA Plus 250	799 350 551	15.285	barcode scanner, transport case	

PF 2 51 306 002



MSA 210 Manual Electrofusion Unit

Monovalent electrofusion unit (fusion voltage 39,5 Volt) with easy manual entry of fusion time by the operator according to the fitting requirements. The unit can be used to weld +GF+ electrofusion fittings up to a nominal diameter of 500 mm SDR 17. Suitable for jointing in series, temperature excess protected. The unit stores the last fusion time and generates a consecutive fusion counter. A buzzer indicates the start and the end of the fusion cycle.

Technical Data

Ambient temperature	-10°C to +40°C
Mains voltage	180 V - 250 V AC
Mains frequency	45 Hz - 65 Hz
Fusion voltage	39,5 V
Internal Fuse	20 A
Power consumption	max. 2750 W
Protection	IP 65
Mains cable	4 m
Fusion cable	3 m
Connector	4,0 mm / 90
Dimensions (WxHxD)	270 x 480 x 150 mm
Weight incl. cables	ca. 21 kg
Display	LED 1 x 4 N, 7 segments
Size display	50 x 18 mm
Type size	14 mm
Warranty	12 months

Description	Code	kg	
Wavin edition	790 128 003	21.000	

PF 3 10 588 100



PF 2 51 306 001

Barcode reader and adapter Barcode scanner MSA

- Robust, handy barcode scanner with a high reading performance made for the construction site. Quick, safe and professional!
Compatible with MSA 500, MSA 3000, MSA 250, 300, 350 and 400 and MSA Plus 250-400 Electrofusion control units.

Code	kg	Description	
799 350 419	0.350	Barcode scanner with pouch and instructions	



PF 2 51 306 001

Adapters

- Adapters for Electrofusion units with 4 mm connectors.
- Compatible with electrofusion units MSA 210-230, MSA 330-340, MSA 250 – 400, MSA 250 – 400 PLUS.

Type	Code	kg	Description	
4,0 mm	799 350 340	0.058	Angle adapter, black	
4,7 mm	799 350 341	0.057	Angle adapter, grey	
4,0 mm	799 350 461	0.014	Adapter, black	
4,7 mm	799 350 462	0.014	Adapter, white	



PF 2 51 306 001

Software MSA WIN WELD

General functions:

- Reading and management of fusion data
- Sort- and filter functions
- Issuing of single records, collected records
- Reading and formatting of memory cards
- Reading and management of traceability data according to ISO 12176-4
- Export functions for conversion to conventional data base files, Excel or Access
- Installed languages: German, English, French, Italian, Dutch, Croatian, Spanish
- Creating individual barcodes
- Individual configuration of fusion devices
- Professional software for analysis and data management of Electrofusion data, traceability data and for configuration barcodes (Z functions).
- Compatibility with MSA 350/MSA Plus 350 (fusion data) and MSA 400/MSA Plus 400 (fusion and traceability data).
- The software is suitable for use with Windows ME/NT4/2000/XP/Vista.
- Scope of delivery: CD-ROM, installation guide (manuals and additional information on CD-ROM)

Code	kg	Description	
799 350 365	0.180	Software for MSA 350-400 and MSA Plus 350-400	



PF 3 25 117 312

Software PIPE WIN WELD / SUVI WIN WELD

- Professional software for analysis and documentation of installed piping systems or of a defined part of it: i. e. Pipe book. With PIPE WIN WELD it is possible to create a complete electronic documentation of the installed pipes and pipe connection elements. The software works with the data bases of MSA WIN WELD and SUVI WIN WELD. The software makes it possible to work with data from other manufacturers (CSV module for data transfer).
- The software is suitable for use with Windows ME/NT4/2000/XP/Vista.
- Scope of delivery: CD-ROM, USB hardlock (PIPE WIN-WELD, PIPE WIN-WELD CSV), installation guide (manuals and additional information on CD-ROM)

Type	Code	kg	Description	
PIPE CSV	790 119 301	0.180	Complete package incl. CSV module for data transfer, USB hardlock	
PIPE	790 119 302	0.180	Complete package, USB hardlock	
SUVI	790 119 303	0.180	Complete package	



PF 2 51 306 004

Transport case MSA fusion unit

Note:

Large Transport Case for MSA 250, 300, 350, 400, MSA Plus 250-400 Units and accessories (barcode scanner, manuals)

Code	kg	Description	
799 350 401	5.540	Transport Case MSA (30x33x20 cm)	
799 350 472	5.540	Transport Case large MSA Plus (33x47x22 cm)	



PF 2 51 306 001

Barcode reader pen

- Compatible with MSA 250, 300, 350 and 400 and MSA Plus 250-400 Electrofusion control units. (As additional/replacement component. A bar code reader pen or scanner is provided with all MSA 250-400 and MSA Plus 250-400 units).

Code	kg	Description	
799 350 335	0.165	Barcode reader pen	



PF 2 51 306 005

USB memory stick

- Memory stick to update MSA Plus 300-400 fusion units with new software and languages
- Download protocols
- Compatible with MSA Plus 300-400

Code	kg	Description	
799 350 622	0.035	Memory stick (for software or languages updates)	



PF 2 51 306 005

USB cable

- PC and printer transmission cable to transfer fusion data directly to PC or to printer
- Compatibility with MSA Plus 350-400

Code	kg	Description	
799 350 619	0.062	USB cable (type A/B) for printer and PC connection	



PF 2 51 306 005

Compact flash card

- Memory card type I to record fusion and traceability data
- Reliable and resistant data carrier for industrial use
- Compatible with MSA Plus 400
- In connection with the PCMCIA-CF Adapter (799 350 623) this compact flash card is **unsuitable for MSA 400 units!**

Code	kg	Description	
799 350 621	0.010	Memory card (32 MB capacity for 1700 fusion protocols)	



PF 2 51 306 005

Adapter card PCMCIA-CF

- To read in fusion and traceability data from the compact flash card (799 350 621) into a PC via PCMCIA slot
- Can only be used for compact flash cards type I
- Compatible with MSA Plus 400

Code	kg	Description	
799 350 623	0.073	Adapter Card PCMCIA-CF	



PF 2 51 306 005

Card reader

- To read in fusion and traceability data from the compact flash card (799 350 621) in the PC via USB (type A) interface
- Flexible card reader with slots for different cards
- Compatible with MSA Plus 400

Code	kg	Description	
799 350 620	0.086	multiple card reader	

Tools for preparing pipe surfaces

Rotary Peeler RS



This innovative Rotary Peeler RS is designed for universal peeling at the pipe end for electrofusion couplings, tees and elbows and as well as for electrofusion saddles. Suitable for peeling PE80, PE100, PEX and PP pipes.

Features and your advantage:

Spring loaded peeling blade:Peeling quality independent of pipe ovality or tolerances

Pivoted mounted peeling blade:To compensate the shape of coiled pipe

Optimized cutting geometry:Defined chip thickness with cutting width overlap

One tool per dimension:Minimized swivel radius for peeling in narrow locations

Peeling length:No limitation of peeling length

Guidance rolls:3-point-support for dimensional optimized cutting feed

Time saving:Tool is always ready for use, it can be used for the next peeling without having to set the peeling blade back in its origin position

Your advantage:Time saving and highest repeatable peeling quality at smallest rotation radius. No operator errors possible when changing dimension

Included:1 x Rotary Peeler RS, Transport case, Operating manual, Spare parts list

Article	d [mm]	Code	kg	
RS 40	40	790 136 001	1.310	
RS 50	50	790 136 002	1.310	
RS 63	63	790 136 003	1.310	
RS 75	75	790 136 004	1.540	
RS 90	90	790 136 005	1.540	
RS 110	110	790 136 006	1.540	
RS 125	125	790 136 007	1.730	
RS 140	140	790 136 008	1.730	
RS 160	160	790 136 009	1.730	
RS 180	180	790 136 010	2.030	
RS 200	200	790 136 011	2.030	
RS 225	225	790 136 012	2.030	
RS 250	250	790 136 013	2.440	
RS 280	280	790 136 014	2.440	
RS 315	315	790 136 015	2.440	

PF 3 25 879 100



Replacement blade to Rotary Peeler RS

d-d [mm]	Description	Code	kg	
40 - 315	HSS	790 136 112	0.009	
40 - 315	Hard metal	790 136 100	0.013	

PF 3 25 118 906

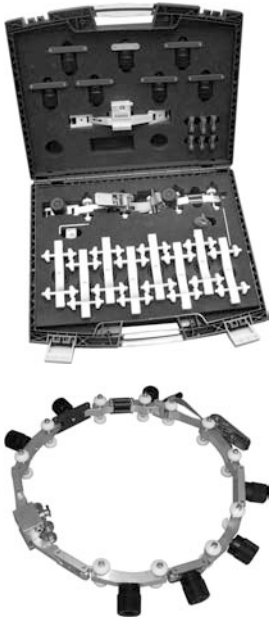


Transport cases for Rotary Peeler RS

- Included in the scope of delivery of the Rotary Peeler RS

Article	Code	kg	Description	Dimension [mm]	
RSTC 40-110	790 136 211	0.718	for RS 40-RS 110	326 x 222 x 116	
RSTC 125-160	790 136 212	1.212	for RS 125-RS 160	437 x 395 x 116	
RSTC 180-225	790 136 213	1.796	for RS 180-RS 225	450 x 360 x 132	
RSTC 250-315	790 136 214	2.901	for RS 250-RS 315	566 x 435 x 156	

PF 3 25 879 100



PF 2 51 305 001

Rotary peeling tool RST 800

- The flexible peeling tool RST 800 is suitable for preparing welding zones of saddle and coupler jointings for Electrofusion fittings
- To ensure the constant removal of the oxidation layer for PE80 and PE100, a long lasting peeling blade made of carbide is used
- Easy-to-hinge chain links enable the staged operation of pipes d250 to d800 mm
- Compensation for ovality and variable pipe diameters with loaded spring component in the chain
- Scope of delivery includes: various chain links, spare blade, transport box

d-d [mm]	Code	kg	Description	
250 - 800	799 300 800	10.552	Rotary Peeling Tool RST 800	



PF 2 51 305 001

Replacement blade for rotary peeling tool RST 800

d-d [mm]	Code	kg	Description	
250 - 800	799 300 802	0.020	Replacement blade in carbide	



PF 2 51 305 001

Transportbox RST 800 with inlays

- Included in the scope of delivery of the Rotary Peeler RST 800

d-d [mm]	Description	Code	kg	
250 - 800	Transportbox RST 800 with inlays	799 300 801	3.500	



PF 2 51 305 001

Peeling tool RTC-710

The peeling tool RTC-710 is suitable for preparing pipe ends in big dimensions (d 355-710 mm). The tool ensures a constant peeling quality on the complete peeling surface of max. 530 mm length and is suitable for PE 80 and PE 100 pipes.

Scope of delivery: 1 Scraper arm, 1 Self-centering chuck base, 2 Aluminium transport cases, 1 screwdriver, 1 spare blade, 1 deburring knife, 1 accessories bag.

d-d [mm]	Code	kg	Description	
355 - 710	799 300 757	15.118	max. working-range 530 mm	

9 300 725



PF 2 51 305 004

Peeling tool PT 1 E

- The rotating Peeling Tool PT 1 E is suitable for preparing pipe ends with diameters d 20 - 90 mm (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX.
- Scope of delivery: 1 basic tool in a plastic carrying case, without pipe inserts. The case has sufficient space for approximately 6 pipe inserts.

d-d [mm]	Code	kg	Description	
20 - 90	799 150 382	2.261	Basic Tool PT 1 E	

9 300 725



PF 2 51 305 004

Pipe inserts for peeling tool PT 1 E

d [mm]	e [mm]	Code	kg	Description	
20	1.9	799 300 739	0.220	Pipe Insert SDR 11	
20	3.0	799 300 741	0.220	Pipe Insert SDR 7	
25	2.3	799 300 740	0.230	Pipe Insert SDR 11	
25	3.0	799 300 742	0.230	Pipe Insert SDR 9	
32	3.0	799 300 743	0.230	Pipe Insert SDR 11	
40	3.7	799 300 744	0.230	Pipe Insert SDR 11	
40	1.8	799 300 760	0.220	Pipe Insert SDR 26	
50	4.6	799 300 745	0.350	Pipe Insert SDR 11	
50	2.0	799 300 761	0.220	Pipe Insert SDR 26	
56	2.2	799 300 762	0.588	Pipe Insert SDR 26	
63	3.8	799 300 725	0.475	Pipe Insert SDR 17	
63	5.8	799 300 746	0.475	Pipe Insert SDR 11	
63	2.5	799 300 763	0.220	Pipe Insert SDR 26	
75	4.5	799 300 727	0.601	Pipe Insert SDR 17	
75	6.9	799 300 747	0.601	Pipe Insert SDR 11	
75	2.9	799 300 764	0.220	Pipe Insert SDR 26	
90	5.4	799 300 748	0.834	Pipe Insert SDR 17	
90	8.2	799 300 749	0.220	Pipe Insert SDR 11	

Replacement blade for peeling tool PT 1 E



PT 1 E

PF 2 51 305 004

d-d [mm]	Piece	Code	kg	Description	
20 - 90	1	799 150 383	0.028	Replacement blade, 1 piece	

9 300 750



PF 2 51 305 004

Peeling tool PT 2

- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.
- Scope of delivery: 1 tool (size 1, 2 or 3) in a metal carrying case.

d-d [mm]	Code	kg	Description	
90 - 250	799 300 753	6.973	Size 1, peeling length 140 mm	
110 - 400	799 300 755	9.900	Size 2, peeling length 150 mm	
110 - 500	799 300 756	3.900	Size 3, peeling length 175 mm	

9 300 750



PT 2

Replacement blade for peeling tool PT 2

d-d [mm]	Code	SP	kg	pcs.-Pal.	
90 - 500	799 150 355	1	0.008	-	

9 300 700



Peeling tool PT 4

- The easy-to-use peeling tools PT 4 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tools ensure a constant peeling quality on the whole peeled area and are suitable for PE80 and PE100 pipes. There is no tool service arrangement for the PT 4.
- Scope of delivery: 1 tool with exchangeable blade (4 cutting surfaces).

e [mm]	d [mm]	Code	kg	Description	
1.9	20	799 300 704	0.271	Pipe Insert SDR 11	
3.0	20	799 300 705	0.255	Pipe Insert SDR 7	
2.3	25	799 300 706	0.308	Pipe Insert SDR 11	
3.0	25	799 300 707	0.290	Pipe Insert SDR 9	
3.0	32	799 300 708	0.340	Pipe Insert SDR 11	
3.7	40	799 300 709	0.380	Pipe Insert SDR 11	
4.6	50	799 300 710	0.436	Pipe Insert SDR 11	
5.8	63	799 300 711	0.540	Pipe Insert SDR 11	

PF 2 51 305 004

9 300 700



PT 4

Replacement blade for peeling tool PT 4

d-d [mm]	Piece	Code	kg	Description	
20 - 63	1	799 150 275	0.006	Replacement blade with 4 cutting surfaces	

PF 2 51 305 999

9 198 033



Hand scraper

- The Hand Scraper can be used to prepare the fusion zone on PE80 pipes.

Code	kg	Description	
799 198 094	0.143	Hand scraper with long handle	

PF 2 51 305 002

Squeeze-off and rerounding tools

9 350 107



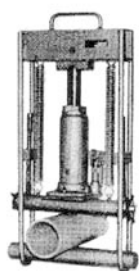
PF 2 51 305 005

Squeeze-off tool type S1

- This mechanical device is used to squeeze-off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) pipes. Due to different wall thickness of the pipes, the squeezing degree may differ up to 0,8.

d-d [mm]	Code	kg	Description	
20 - 63	799 350 107	4.449	S1 for PE pipes SDR 11	

9 350 108



PF 2 51 305 005

Squeeze-off tool type S2

- This mechanical device is used to squeeze off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) and SDR 17 (ISO S8) pipes.

d-d [mm]	Code	kg	Description	
63 - 180	799 350 108	35.800	S2 for PE pipes SDR 11 and SDR 17	

9 350 270



PF 2 51 305 005

Squeeze-off tool A25

- This mechanical device is used to squeeze off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) and SDR 17 (ISO S8) pipes.

d-d [mm]	Code	kg	Description	
160 - 250	799 350 270	60.000	A25 for PE pipes SDR 11 and SDR 17	



Re-rounding tool

- Re-rounding tools are used to re-round oval pipes during fusion as well as during the cooling time.

d [mm]	Code	kg	
25	799 199 127	0.577	
32	799 199 128	0.500	
40	799 199 129	1.500	
50	799 199 130	1.616	
63	799 199 131	0.742	
75	799 199 132	0.791	
90	799 199 133	1.690	
110	799 199 134	1.537	
125	799 199 135	1.917	
160	799 199 137	2.318	
180	799 199 138	2.493	

table continued next page

PF 2 51 305 005

d [mm]	Code	kg	
200	799 199 139	2.500	
225	799 199 140	3.361	
250	799 199 141	1.872	



Pressure pad kit

- Complete kit of assembly equipment
- Consists of 3 air pressure pads, control unit with manifold, pressure hoses, strap corset, detailed instruction leaflets and transport case
- For operation with pressurized air up to 10 bar according to EN 292
- Tool for dual use: Pipe re-rounding and fusion pressure reinforcement

PF 2 51 305 005

d-d [mm]	Code	kg	
560 - 630	799 301 561	32.000	

Clamps and installation aids

Clamping device topload 400



PF 2 51 305 008

- This clamp and mounting tool is used for top-load Saddles on pipes of dimensions d 280 - 400 mm.
- Scope of delivery: 1 base mounting clamp, 1 bracket, 2 clamping screws, 2 ratchet scraps, 1 transport box

d-d [mm]	Code	kg	
280 - 400	799 350 475	10.010	

Clamping device topload 630



PF 2 51 305 008

- This clamp and mounting tool is used for top-load Saddles on pipes of dimensions d 280 - 400 mm and branch fittings for dimensions d 280 mm – 630 mm.
- Scope of delivery: 1 base mounting clamp, 1 clamping attachment, 1 bracket, 2 clamping screws, 2 ratchet scraps, 1 transport box

d-d [mm]	Code	kg	
280 - 630	799 350 477	35.000	

Clamping attachment topload 630



PF 2 51 305 008

- Clamping attachment as single part for extension of Topload tool 400 (799 350 475)
- Suitable for Branch fittings dimension d 280 mm – 630 mm

d-d [mm]	Code	kg	
280 - 630	799 350 476	5.000	

Multiple use assembly tool branch fitting d140mm



PF 2 51 336 001

- Only to be used with Branch Fitting d140mm
- Delivered as complete Kit including screws and belt

d [mm]	Code	kg	
140	193 281 027	0.724	

9 350 358



PF 2 51 305 008

Swivel clamp

- The Swivel Clamp centralises pipes with dimensions from d63 to 180 mm automatically. Suitable for coupler connections as well as reductions and bends. The 15° adjustment makes an exact positioning from 15° to 90° possible.

d-d [mm]	Code	kg	
63 - 180	799 350 358	18.000	

9 301 475



PF 2 51 305 008

Double clamp

- The user-friendly Double Clamps are suitable for coupler connections. They are quickly and easily put into position and prevent pullout and pipe movements during the fusion time and cooling time.
- Scope of delivery: 1 tool consisting of 1 beam (compact), 2 V-clamps complete with ratchet and belt.

d-d [mm]	Code	kg	
63 - 125	799 301 484	3.506	
110 - 225	799 301 486	7.918	
225 - 500	799 301 488	14.735	

9 301 450



PF 2 51 305 008

Quadruple clamp

- The professional Quadruple Clamps are suitable for coupler connections. They are quickly and easily put into position and ensure a stress-free fusion. They prevent pull-out and pipe movements during the fusion and cooling times.
- Recommended for difficult site conditions with large installation-induced stresses.
- Scope of delivery: 1 tool consisting of 1 beam (long), 4 V-clamps complete with ratchet and belt.

d-d [mm]	Code	kg	
63 - 125	799 301 459	7.142	
110 - 225	799 301 461	16.490	
225 - 500	799 301 463	28.500	

9 301 525



PF 2 51 305 003

Twin clamp

- The easy-to-use Twin Clamp is suitable for coupler connections on straight or coiled pipe. The clamps prevent pullout and pipe movements during the fusion and cooling time.
- Scope of delivery: 1 complete tool.

d [mm]	Code	kg	
20	799 301 536	0.498	
25	799 301 537	0.471	
32	799 301 538	0.756	
40	799 301 539	0.876	
50	799 301 540	1.167	
63	799 301 541	1.438	

9 301 575



PF 2 51 305 008

Multi clamp

- This tool is quick and easy to use and is suitable for straight forward connections to straight lengths of pipe or saddle branch outlets with electrofusion couplers.
- Scope of delivery: 1 tool without accessories.

d-d [mm]	Code	kg	
20 - 63	799 301 575	1.409	

9 301 575



PF 2 51 305 008

Inserts for multi clamp

d-d [mm]	Code	kg	Description	
25 - 20	799 150 385	0.488	Inserts, Sets	
32 - 20	799 150 386	0.500	Inserts, Sets	
32 - 25	799 150 387	0.520	Inserts, Sets	
40 - 32	799 150 388	0.500	Inserts, Sets	
50 - 40	799 150 389	0.500	Inserts, Sets	
63 - 32	799 150 390	0.520	Inserts, Sets	
63 - 40	799 150 391	0.520	Inserts, Sets	
63 - 50	799 150 392	0.520	Inserts, Sets	

9 150 090



PF 2 51 305 002

Spring clamp for ELGEF® 24V reinforcing saddles

- The Spring Clamp is used to install ELGEF® 24 V reinforcing saddles d 40 - 225 mm. The tool ensures a constant jointing pressure during the entire fusion cycle.

d-d [mm]	Code	kg	
40 - 225	799 150 090	1.180	

Tapping tools

Tapping key for wavin saddles



PF 2 94 717 001

Type	Code	SP	kg	Description	
S 19/10	701 486 960	1	0.620	for Wavin Saddles type LU and LI, two safety stops for cutter dimension 30, 32 + 18 mm	

Assembly and tapping key For ELGEF Plus saddles



PF 2 51 305 009

Type	Code	kg	Description	
8/10/17	799 198 047	0.798	For all saddles	

Tapping key for ELGEF Plus saddles

- With adjustable tapping depth.



PF 2 51 305 999

Type	Code	kg	Description	
10	799 198 080	0.114	for Monobloc d 40 mm and d 50 mm	
17	799 198 079	0.556	for Monobloc d 63 mm, d 90 - 160 mm and all Duobloc saddles	
12.7	799 198 091	0.543	for socket with cutter	

Hexagon key for ELGEF Plus saddles And branch fittings



PF 2 51 305 009

Type	Code	kg	Description	
SW8	799 150 378	0.129	For all saddles and branch fittings	

Tapping Adapter For ELGEF Plus saddles

- The Adapter is used for gas-free tapping under pressure. Type S 54 for tapping saddles with rotatable outlet d 20 - 40 mm (Tapping Tee d 32 mm). Type S 67 for tapping saddles with rotatable outlet d 50 - 63 mm (Tapping Tee d 63 mm).



PF 2 51 305 002

Type	Code	kg	Description	
S 54	799 100 061	0.785	for Tapping Tee d 32 mm	
S 67	799 100 062	1.011	for Tapping Tee d 63 mm	

Pressure test cap for ELGEF Plus Tapping saddles



- The cap has a Rp 3/8" connection thread and is made from galvanised steel.
- **Overview of Tapping Adapter types and Pressure Test Cap**
- M For Monobloc d 40 and 50 mm (outlets d 20 - 32 mm)
- S 54 For all saddles with rotatable outlet (outlets d 20 - 40 mm) i.e. Tapping Tee d 20 - 40 mm.
- S 67 For all Saddles with rotatable outlet (outlets d 50 and 63 mm) i.e. Tapping Tee d 63 mm.

Type	Code	kg	Description	
M	799 199 282	0.116	for Monobloc d 40 mm and d 50 mm	
S 54	799 199 283	7.142	for Tapping Tee d 20 - 40 mm	
S 67	799 199 286	0.430	for Tapping Tee outlet d 63 mm	

PF 2 51 305 002



PF 2 51 305 002

Cutter for PE pipes

- This cutter is suitable for PE pipes and can be used on pipes of up to d 225 mm with a wall thickness of up to 21 mm.

d [mm]	Code	kg	Description	
39	799 198 012	0.215	accessories Basic Tool Box	



PF 2 51 305 002

PE repair plug

- PE Repair Plugs are suitable for use with ELGEF® 24 V PE Reinforcement Saddles 53 127 000.

d [mm]	Code	SP	kg	pcs.-Pal.	
30	799 199 088	10	0.012	18000	
39	799 199 089	10	0.019	10800	

KS 1600

Plastic pipe cutter



The KS 1600 is used for cutting plastic pipes fast, cleanly and properly right-angled- from diameter 500 mm up to 1600 mm with a wall thickness of max. 60 mm. For each pipe diameter, the appropriate chain length is necessary. The saw is to be put on the tensioned chain as per user manual which serves as a guiding device for the saw over a full 360° turn.

The guard plate covers the saw blade also during operation and provides full protection for the user at all times.

The KS 1600 basic kit consists of a circular-hand saw, 230 V / 2200 W with carriage, 2 tension chains for d560 mm and d630 mm as well as a chain tensioner. The whole equipment comes in a convenient and robust transport box.

The easy handling and the optimal safety features make this tool indispensable on every building site.

Scope of delivery:

1 Circular-hand saw, 1 tensioning chain d560 mm, 1 tensioning chain d630 mm, 1 chain tensioner, 1 hex-wrench size 5, 1 hex-wrench size 6, 1 operating instruction, transport-box

Technical data:

Dimension range:	d500 –1600 mm (In combination with the respective tensioning chain)
Plug:	EU-Plug
Voltage:	230 V AC
Power:	2200 Watt
Frequency:	50-60 Hz
Circular saw blade outer-Ø:	240 mm
RPM:	4100
Sound level:	104 dB (A)
Weight saw:	15, 5 kg
Weight KS 1600 Basic-Kit:	43,5 kg
Dimensions saw (WxHxD):	790 x 330 x 335 mm
Dimensions Transport-Box:	950 x 400 x 395 mm

PF 2 51 305 006

Chain tensioner

- Chain tensioner is included in the scope of delivery of the KS 1600 Basic Kit (790 109 600).

d-d [mm]	Code	SP	kg	pcs.-Pal.
500 - 1600	790 109 616	-	0.400	-

PF 3 25 119 106

Tensioning Chains

- Chains for d560 and d630 mm are included in the scope of delivery of the KS 1600 Basic-Kit (790 109 600).

d [mm]	Code	kg
500	790 109 605	5.200
560	790 109 606	5.600
630	790 109 607	6.630
710	790 109 608	7.900
800	790 109 609	9.100
900	790 109 610	10.174
1000	790 109 611	11.000
1100	790 109 612	12.000
1200	790 109 613	13.500
1400	790 109 614	15.500
1600	790 109 615	17.800

PF 3 25 119 106

Replacement saw blade for KS 1600

PF 3 25 119 106	description			Code	kg	
	Saw Blade 240X3,0X30, 18 teeth punched			790 109 618	0.653	

PPC Plastic pipe cutter

90 10 90



PF 3 25 117 309

PPC Plastic pipe cutter

- For cutting plastic pipes d10 - d160

d-d [mm]	Article	Code	kg	Closest inch	
10 - 63	PPC 63, s max. = 7.2mm	790 109 001	0.865	1/8 - 2	
50 - 110	PPC 110, s max. = 12.7mm	790 109 002	1.624	1 1/2 - 4	
110 - 160	PPC 160, s max. = 19.0mm	790 109 003	2.212	4 - 6	

90 10 90



PF 3 25 117 909

Replacement cutting wheels

- for plastic pipe cutter

d-d [mm]	Article	Code	kg	
10 - 63	SR 63 max. s=7,2 mm	790 109 011	0.004	
50 - 110	SR 110/160 max. s=12,7 mm	790 109 012	0.015	
110 - 160	SR 160 max. s=19,0 mm	790 109 013	0.023	

Accessories

Support 630



- Up to d 630 mm, with base plate, galvanised
- **adjustable height** (60 mm)
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 1000 kg

PF 3 25 117 328

d-d [mm]	Code	kg	
110 - 630	790 109 109	3.943	



Roller support 315

- For pipes up to d 315 mm, with base plate, galvanised
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 300 kg

PF 3 25 117 328

d-d [mm]	Code	kg	
20 - 315	790 109 110	3.599	



KS Tangit Cleaner

- Special cleaning agent for plastic fusion connections with PP, PE, PVDF and PB.

PF 2 28 473 002

Code	SP	kg	
799 298 023	1	0.872	



Marker

PF 2 55 338 999

Type	Code	kg	
silver	799 350 364	0.010	

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193 131 537	20	701 473 808	49	701 485 074	32
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193 135 009	16	701 473 812	49	701 485 079	32
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193 135 019	16	701 473 814	49	701 485 138	6
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General Condition of Supply of Georg Fischer Wavin Ltd., Schaffhausen

1 General

- 1.1 These General Conditions shall apply to all Products supplied by Georg Fischer to the Purchaser.
They shall also apply to all future business even when no express reference is made to them.
- 1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.
- 1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

- 3.1 Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

- 4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.
- 4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

- 5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.
- 5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

6 Local Laws and Regulations, Export Controls

- 6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.
- 6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

- 7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works [according to Incoterms 2010 of the ICC, or latest version] including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import- licences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

- 8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.
- 8.2 The Purchaser may only withhold or offset payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser.
In particular, payment shall still be made when unessential items are still outstanding provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

- 9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.
- 9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.

- 9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
 - a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.
 - b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially impractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.
Should the effect of force majeure exceed a period of six months, either party may cancel the contract forthwith.
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting therefrom, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.
 - c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.
- 10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one month which equally is not met.
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.
- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.
- 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to a penalty amounting to 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved. Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

11 Packing

If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

- 12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms 2010 ICC, or latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

- 13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.
- 13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind.
Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.

- 13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.
- 13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier.
Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six days after receipt of the Products.
- 14 Inspection, Notification of Defects and Damages**
- 14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture.
Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.
- 14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within 7 working days after discovery, in any event within the agreed warranty period.
- 14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.
- 15 Warranty**
- 15.1 At the written request of the Purchaser, Georg Fischer undertakes to repair or replace at its discretion, as quickly as possible and free of charge, all Products supplied which demonstrably suffer from faulty design, materials or workmanship, from faulty operating or installation instructions or which become defective or unusable due to faulty advice.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Dis-closure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.
- 15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.
- 15.3 The Purchaser shall be entitled to rescind the contract or to demand a reduction of the contract price if
- the repair or replacement of the defective Product is impossible
 - the defective Product is not repaired or replaced within a reasonable period
 - Georg Fischer refuses the repair or replacement or if for reasons attributable to Georg Fischer the repair or replacement is delayed.
- 15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.
- 15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
- 15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.
- 15.7 In case of Products for use in domestic installations or in utilities
- Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object up to CHF 1'000'000 per occurrence.
 - warranty or damage claims - contrary to Section 15.6 - are timebarred 5 years from the date of installation or 10 years from the production date, whichever is earlier.
- 16 Limitation of Liability**
- The rights and remedies of the customer shall be exclusively governed by these General Conditions of Supply and shall be in lieu of any remedies at law. All further claims for damages, reduction of the purchase price, termination of or rescission of the contract are excluded.
In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies.
This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit, third party recovery claims and other direct or indirect or consequential damages.
This limitation of liability equally applies to the extent Georg Fischer is liable for acts or omissions of its employees or third parties engaged for the performance of its obligations. It does not apply in case unlawful intent or gross negligence on the part of Georg Fischer's management and in case of Georg Fischer's statutory liability, in particular under applicable product liability laws.
- 17 Severability**
- Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.
- 18 Place of Performance and Jurisdiction**
- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.
- 18.3 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

01/2011



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