

Distribution Piping Systems

Product Range 2015

Monoline

LU/L
Machines & Tools



General information

Abbreviations

PE	Polyethylene
PP	Polypropylene
PMS	Maximum allowable operating pressure
PN	Nominal pressure
SDR	Standard dimension ratio
S	Pipe series ISO
d, d1, d2	Diameter
G, R, Rp	Thread
DN	Nominal diameter
L, L1, L2	Length
z, z1, z2	Length (Additional dimensions)
H, H1	Height
B	Width
e, e1	Wall thickness
s	Opening of the spanner
AL	Number of bolts
kg	Weight, net
GP	Quantity per pack
WI	Resistance index

The technical data are not binding. They are not warranted characteristics and are subject to change. Please consult our General Conditions of Supply.

Allowable operating pressure



Maximum allowable operating pressure for water at 20 °C and a calculated life expectancy of 50 years:

$PMS \text{ (water / 20 °C / 50 years)} = PN$

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

With other liquids and when temperatures above 20 °C are applied, corresponding diminution factors have to be taken into consideration to determine the maximum allowable operating pressure.



For the maximum permissible working pressures in gas systems, all corresponding national standards and recommendations should be followed.

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Certificate

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



GEORG FISCHER
PIPING SYSTEMS

Georg Fischer Piping Systems Ltd.
8201 Schaffhausen, Switzerland

Certified area

Georg Fischer Piping Systems Ltd., Schaffhausen
(ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007)
Georg Fischer Piping Systems (Switzerland) Ltd., Sales Company
(ISO 9001:2008)
Georg Fischer Wavin Ltd., Schaffhausen and Subingen
(ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007)
Georg Fischer JRG Ltd., Sissach
(ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007)
Georg Fischer Fluoropolymer Products GmbH, Ettenheim
(ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007)

Field of activity

GF Piping Systems is a leading supplier of plastic and metal pipe systems with a global market presence.
GF Piping Systems offers connection technology, fittings, fixtures, sensors and pipes and supplies leading innovative technical solutions for domestic engineering applications, industry and utilities.

Standards

ISO 9001:2008	Quality Management System
ISO 14001:2004	Environmental Management System
OHSAS 18001:2007	Occupational Health and Safety Management System

Swiss Association for Quality and
Management Systems SQS
Bernstrasse 103, CH-3052 Zollikofen
Issue date: Mai 28, 2012

This SQS Certificate is valid up to
and including Mai 27, 2015
Scope number 14
Registration number 10684

X. Edelmann

X. Edelmann, President SQS

R. Glauser

R. Glauser, Managing Director SQS



SCESm 001



Swiss Made



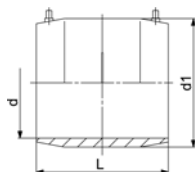
Monoline

LU

Electrofusion fittings Type LU

Monoline - Electrofusion fittings type LU

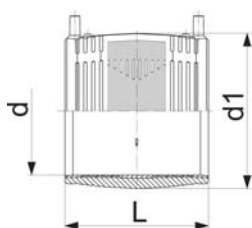
Coupler type LU



- **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	Weight [kg]	d1 [mm]	L [mm]	SDR pipe
*	20	701 485 700	1	50	0.034	33	55	11
*	25	701 485 701	1	50	0.042	39	55	11
*	32	701 485 702	1	50	0.051	46	60	11
*	40	701 485 703	1	40	0.077	56	65	11
	50	701 485 704	1	50	0.125	69	75	11
	63	701 485 705	1	42	0.165	82	80	11

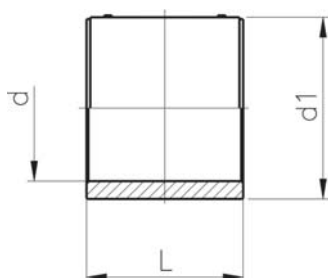
Coupler type LU



- **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	Weight [kg]	d1 [mm]	L [mm]	SDR pipe
*	75	701 485 106	1	12	0.282	96	110	11 - 17/17.6
*	90	701 485 110	1	10	0.406	113	125	11 - 17/17.6
*	110	701 485 130	1	6	0.670	138	145	11 - 17/17.6
*	125	701 485 715	1	5	0.758	154	158	11 - 17/17.6
*	140	701 485 716	1	5	0.962	172	168	11 - 17/17.6
*	160	701 485 717	1	6	1.367	195	180	11 - 17/17.6
	180	701 485 718	1	5	1.811	219	194	11 - 17/17.6
	200	701 485 719	1	4	2.333	244	208	11 - 17/17.6
	225	701 485 720	1	3	3.334	273	224	11 - 17/17.6
	250	701 485 725	1	2	4.210	304	244	11 - 17/17.6
	280	701 485 726	1	1	5.563	340	252	11 - 17/17.6
	315	701 485 729	1	1	7.955	382	268	11 - 17/17.6

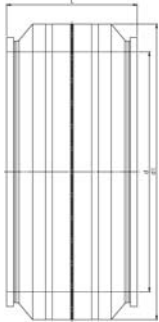
Coupler type LU



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- With active reinforcement

d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	SDR pipe
355	701 485 080	1	1	13.098	438	291	9 - 17/17.6
400	701 485 081	1	1	18.320	493	295	9 - 17/17.6
450	701 485 082	1	1	24.700	554	327	9 - 17/17.6
500	701 485 083	1	1	33.700	616	358	9 - 17/17.6
560	701 485 084	1	1	46.200	689	396	9 - 17/17.6
630	701 485 085	1	1	65.300	775	440	9 - 17/17.6
710	701 485 086	1	1	87.400	874	463	9 - 17/17.6
800	701 485 087	1	1	114.500	982	484	9 - 17/17.6

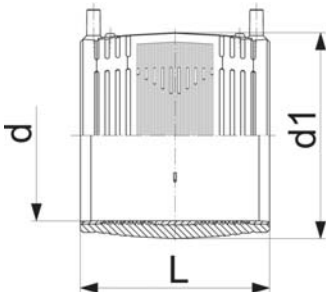
Coupler



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

d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	SDR pipe	
900	753 911 652	1	1	137.930	1110	550	11	

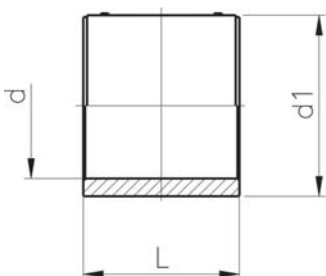
Coupler type LU



- 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	Weight [kg]	d1 [mm]	L [mm]	SDR pipe	
*	160	701 485 735	1	6	1.009	186	180	17 - 26	
	180	701 485 736	1	6	1.450	213	194	17 - 26	
	200	701 485 737	1	4	1.706	233	208	17 - 26	
	225	701 485 738	1	3	2.557	261	224	17 - 26	
	250	701 485 739	1	2	4.614	304	244	17 - 26	
	280	701 485 740	1	1	5.675	340	252	17 - 26	
	315	701 485 741	1	1	8.000	382	268	17 - 26	

Coupler type LU



- PE 100 SDR 17 (ISO S8)
- 5 bar Gas / 10 bar Water
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- With active reinforcement

d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	SDR pipe	
355	701 471 752	1	1	9.522	416	291	17 - 33	
400	701 471 753	1	1	18.000	467	295	17 - 33	
450	701 471 754	1	1	16.000	526	327	17 - 33	
500	701 471 755	1	1	22.000	584	358	17 - 33	
560	701 471 756	1	1	29.500	647	396	17 - 33	
630	701 471 757	1	1	35.000	727	440	17 - 33	
710	701 471 758	1	1	55.600	820	463	17 - 33	
800	701 471 759	1	1	73.000	922	484	17 - 33	

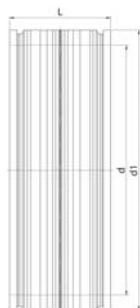
Coupler



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

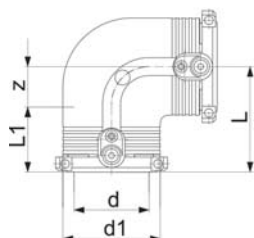
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	SDR pipe	
900	753 911 852	1	1	93.150	1030	550	17	
1000	753 911 853	1	1	125.650	1143	600	17	
1200	753 911 854	1	1	196.450	1370	650	17	

Coupler



- PE 100 SDR 26 (ISO S12.5)
- 6 bar water
- Only for water applications
- 4 mm pin connectors

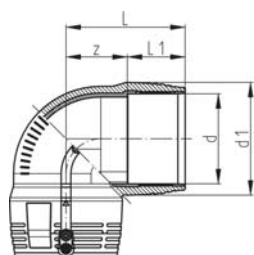
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	SDR pipe	
710	753 911 950	1	1	31.920	797	360	26	
800	753 911 951	1	1	42.800	897	380	26	
900	753 911 952	1	1	57.580	1009	400	26	
1000	753 911 953	1	1	79.270	1121	440	26	
1200	753 911 954	1	1	125.700	1345	480	26	



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

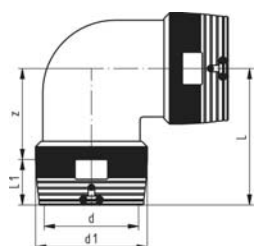
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
20	701 485 811	1	40	0.086	35	54	34	20	11	
25	701 485 812	1	40	0.065	35	54	34	20	11	
32	701 485 813	1	35	0.085	44	53	36	17	11	
40	701 485 814	1	30	0.136	54	62	39	23	11	
50	701 485 815	1	30	0.197	66	71	43	28	11	
63	701 485 816	1	18	0.311	81	81	48	32	11	



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

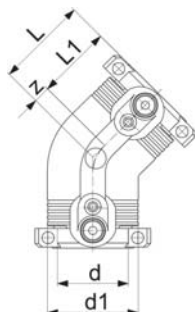
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
75	701 485 603	1	25	0.413	97	94	54	40	11	
90	701 485 617	1	15	0.827	115	122	62	60	11	
110	701 485 618	1	8	1.265	140	147	72	76	11 -17/17.6	
125	701 485 619	1	5	1.742	161	155	78	77	11 -17/17.6	
160	701 485 790	1	4	3.845	208	193	89	104	11 -17/17.6	
180	701 485 791	1	3	5.342	234	213	96	117	11 -17/17.6	



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

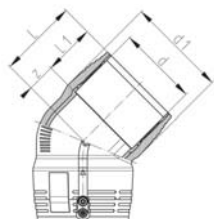
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
200	701 485 854	1	1	7.987	250	298	104	194	11-17/17.6	
225	701 485 858	1	1	11.220	280	318	112	206	11-17/17.6	
250	701 485 859	1	1	15.715	310	347	123	224	11-17/17.6	



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

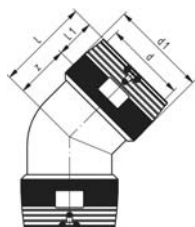
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
32	701 485 803	1	35	0.074	44	44	36	8	11	
40	701 485 804	1	25	0.113	54	50	39	11	11	
50	701 485 805	1	30	0.158	66	56	43	13	11	
63	701 485 806	1	24	0.258	81	63	48	15	11	



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

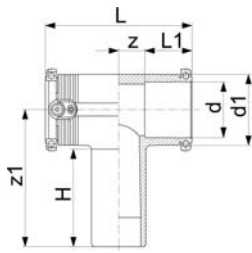
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
75	701 485 604	1	25	0.346	97	71	54	17	11	
90	701 485 620	1	20	0.557	115	91	62	29	11	
110	701 485 621	1	12	0.973	140	112	72	40	11-17/17.6	
125	701 485 622	1	6	1.466	160	119	78	41	11-17/17.6	
160	701 485 795	1	5	3.005	208	134	89	42	11-17/17.6	
180	701 485 796	1	4	4.047	234	142	96	47	11-17/17.6	



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

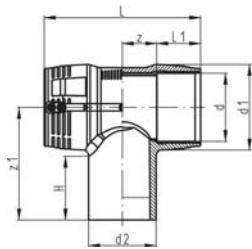
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe	
200	701 485 849	1	1	7.578	250	232	104	128	11-17/17.6	
225	701 485 851	1	1	9.540	280	247	112	135	11-17/17.6	
250	701 485 853	1	1	12.740	310	275	123	152	11-17/17.6	



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

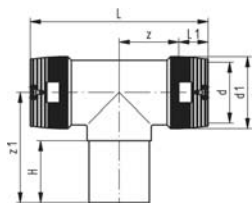
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]	SDR pipe	
20	701 485 821	1	40	0.090	35	90	34	11	92	67	11	
25	701 485 822	1	40	0.075	35	90	34	11	92	70	11	
32	701 485 823	1	35	0.109	44	102	36	15	100	74	11	
40	701 485 824	1	30	0.175	54	120	39	21	114	82	11	
50	701 485 825	1	22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



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	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]	SDR pipe	
75	701 485 601	1	18	0.566	97	178	54	35	143	87	11	
90	701 485 623	1	10	0.887	115	205	62	41	161	94	11	
110	701 485 624	1	6	1.608	140	255	72	56	184	104	11-17/17.6	
125	701 485 600	1	4	2.251	151	276	78	60	207	113	11-17/17.6	
125	701 485 829	1	4	2.193	151	256	75	53	174	92	11-17/17.6	
160	701 485 636	1	3	5.000	210	330	89	76	220	105	11-17/17.6	
180	701 485 646	1	3	6.050	233	350	96	79	247	120	11-17/17.6	



Tee 90° equal type LU

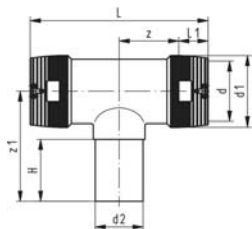
- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]	SDR pipe	
200	701 485 777	1	1	10.420	250	590	104	191	250	117	11-17/17.6	
225	701 485 778	1	1	15.145	280	636	112	206	270	122	11-17/17.6	
250	701 485 779	1	1	19.245	310	685	123	220	288	127	11-17/17.6	

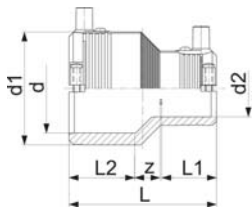


Tee 90° reduced type LU

- 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



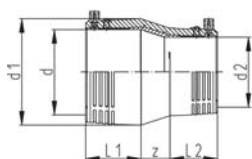
d [mm]	d2 [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	z [mm]	z1 [mm]	H [mm]	SDR pipe
160	63	701 485 771	1	2	4.940	200	493	90	127	176	65	11-17/17.6
160	90	701 485 772	1	2	5.040	200	492	90	158	188	79	11-17/17.6
160	110	701 485 773	1	2	5.160	200	491	90	158	195	85	11-17/17.6
200	90	701 485 630	1	1	11.260	250	595	104	194	215	81	11-17/17.6
200	110	701 485 631	1	1	11.260	250	600	104	194	218	84	11-17/17.6
200	160	701 485 633	1	1	11.260	250	595	104	194	236	101	11-17/17.6
225	90	701 485 774	1	1	12.700	280	666	112	217	226	80	11-17/17.6
225	110	701 485 775	1	1	12.750	280	670	112	217	235	85	11-17/17.6
225	160	701 485 776	1	1	12.951	280	667	112	217	255	105	11-17/17.6
250	110	701 485 639	1	1	12.750	310	709	123	220	245	85	11-17/17.6
250	160	701 485 640	1	1	12.750	310	711	123	220	264	101	11-17/17.6



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

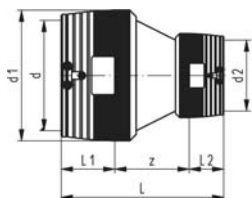
d [mm]	d2 [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	SDR pipe	
25	20	701 485 831	1	40	0.054	35	74	34	34	6	11	
32	20	701 485 832	1	35	0.066	44	79	33	36	10	11	
32	25	701 485 833	1	35	0.060	44	79	33	36	10	11	
40	20	701 485 834	1	40	0.080	54	88	33	40	15	11	
40	25	701 485 836	1	40	0.086	54	88	33	40	15	11	
40	32	701 485 835	1	40	0.090	54	88	33	39	13	11	
50	32	701 485 837	1	35	0.113	66	96	35	43	18	11	
50	40	701 485 838	1	32	0.117	66	96	39	43	14	11	
63	32	701 485 839	1	40	0.164	81	106	35	48	23	11	
63	40	701 485 840	1	40	0.166	81	106	39	48	19	11	
63	50	701 485 841	1	40	0.183	81	106	43	48	15	11	



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

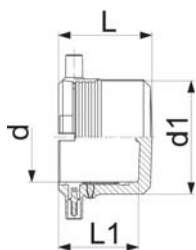
d [mm]	d2 [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	SDR pipe	
90	63	701 485 627	1	30	0.370	113	146	63	47	36	11-17/17.6	
110	90	701 485 628	1	16	0.657	138	173	73	63	38	11-17/17.6	
125	90	701 485 602	1	12	0.878	152	180	79	61	40	11-17/17.6	
160	110	701 485 850	1	6	1.668	196	226	91	70	65	11-17/17.6	
180	125	701 485 852	1	4	2.049	220	247	97	70	80	11-17/17.6	



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

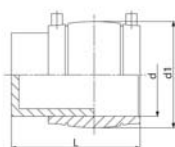
d [mm]	d2 [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	SDR pipe	
200	160	701 485 842	1	1	5.049	250	365	104	90	171	11-17/17.6	
225	160	701 485 843	1	1	5.997	280	385	112	90	183	11-17/17.6	
250	160	701 485 844	1	2	7.455	310	400	123	90	187	11-17/17.6	
250	200	701 485 845	1	2	8.686	310	427	123	104	200	11-17/17.6	



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

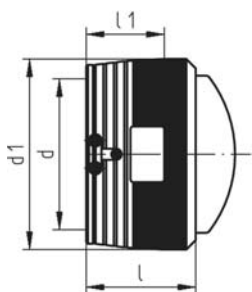
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	SDR pipe	
20	701 485 950	1	30	0.037	35	52	44	11	
25	701 485 951	1	30	0.042	35	52	44	11	
32	701 485 952	1	50	0.054	44	52	44	11	
40	701 485 953	1	50	0.072	54	56	47	11	
50	701 485 954	1	30	0.099	66	60	49	11	
63	701 485 955	1	20	0.150	81	66	54	11	



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

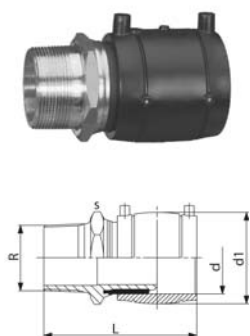
d [mm]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	SDR pipe	
75	701 485 936	1	30	0.377	96	110	11	
90	701 485 937	1	18	0.563	113	125	11-17/17.6	
110	701 485 938	1	12	1.084	133	145	11-17/17.6	
125	701 485 939	1	8	1.377	155	158	11-17/17.6	
180	701 485 942	1	2	3.181	220	194	11-17/17.6	



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	Weight [kg]	d1 [mm]	L [mm]	L1 [mm]	SDR pipe	
160	701 485 943	1	2	2.000	200	143	90	11-17/17.6	
200	701 485 944	1	2	3.040	250	162	104	11-17/17.6	
225	701 485 948	1	4	4.140	280	170	112	11-17/17.6	
250	701 485 949	1	1	5.930	310	185	123	11-17/17.6	



Transition coupler PE/brass (CW617N) 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

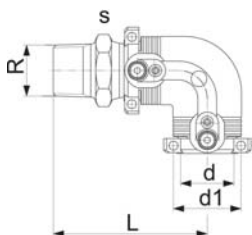
d [mm]	R [inch]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	s [mm]	SDR pipe	
20	1/2	701 485 891	1	20	0.168	31	110	30	11	
20	1	701 485 956	1	20	0.344	44	124	40	11	
25	3/4	701 485 892	1	16	0.239	36	111	35	11	
25	1	701 485 957	1	16	0.347	44	124	40	11	
32	1/2	701 485 958	1	20	0.222	44	121	30	11	
32	3/4	701 485 959	1	20	0.244	44	122	35	11	
32	1	701 485 893	1	20	0.326	44	117	40	11	
32	1 1/4	701 485 960	1	20	0.516	54	135	50	11	
32	1 1/2	701 485 961	1	20	0.654	60	143	60	11	
32	2	701 485 962	1	10	0.953	81	157	70	11	
40	1	701 485 963	1	20	0.360	54	133	40	11	
40	1 1/4	701 485 894	1	20	0.502	54	127	50	11	
40	1 1/2	701 485 964	1	20	0.650	66	143	60	11	
40	2	701 485 965	1	20	0.959	81	157	70	11	
50	1	701 485 966	1	20	0.402	66	141	40	11	
50	1 1/4	701 485 967	1	20	0.561	66	143	50	11	
50	1 1/2	701 485 895	1	12	0.649	66	135	60	11	
50	2	701 485 968	1	20	0.970	81	157	70	11	
63	1	701 485 969	1	8	0.675	81	151	40	11	
63	1 1/4	701 485 970	1	8	0.742	81	153	40	11	
63	1 1/2	701 485 971	1	8	0.724	81	153	60	11	
63	2	701 485 896	1	8	0.974	81	147	70	11	



Transition coupler PE/brass (CW617N) 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

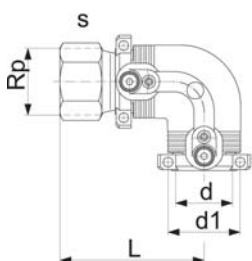
d [mm]	Rp [inch]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	s [mm]	SDR pipe	
32	1	701 485 897	1	18	0.326	44	108	40	11	
40	1 1/4	701 485 898	1	15	0.479	54	118	50	11	
50	1 1/2	701 485 899	1	9	0.729	66	126	60	11	
63	1	701 485 890	1	12	0.438	81	138	70	11	
63	1 1/4	701 485 901	1	12	0.571	81	138	70	11	
63	1 1/2	701 485 902	1	12	0.785	81	138	70	11	
63	2	701 485 900	1	6	0.994	81	138	70	11	



Transition elbow 90° PE/brass (CW617N) 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

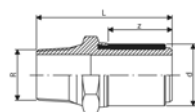
d [mm]	R [inch]	Code	SP	GP	Weight [kg]	d1 [mm]	L [mm]	s [mm]	SDR pipe
20	1/2	701 485 911	1	25	0.300	31	96	30	11
25	3/4	701 485 912	1	20	0.320	36	97	35	11
32	1	701 485 913	1	15	0.364	44	98	40	11
32	1 1/4	701 485 921	1	15	0.487	44	100	50	11
32	1 1/2	701 485 922	1	15	0.552	44	100	60	11
40	1	701 485 923	1	18	0.512	54	107	50	11
40	1 1/4	701 485 914	1	18	0.570	54	109	50	11
40	1 1/2	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 1/4	701 485 926	1	4	0.761	66	118	60	11
50	1 1/2	701 485 915	1	12	0.722	66	118	60	11
63	1 1/4	701 485 927	1	12	1.037	81	128	70	11
63	1 1/2	701 485 928	1	12	1.033	81	128	70	11
63	2	701 485 916	1	12	1.101	81	132	70	11



Transition elbow 90° PE/brass (CW617N) 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	Weight [kg]	d1 [mm]	L [mm]	s [mm]	SDR pipe
32	1	701 485 917	1	12	0.350	44	89	40	11
40	1 1/4	701 485 918	1	12	0.540	54	100	50	11
50	1 1/2	701 485 919	1	12	0.790	66	109	60	11
63	1	701 485 945	1	8	1.406	81	123	70	11
63	1 1/4	701 485 946	1	8	1.362	81	123	70	11
63	1 1/2	701 485 947	1	8	1.285	81	123	70	11
63	2	701 485 920	1	8	1.176	81	123	70	11



Transition adaptor PE/brass (CW617N) Male thread type LU

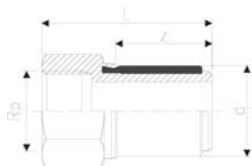
- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Only to be used with Wavin electrofusion couplers type LU

d [mm]	R [inch]	Code	SP	GP	Weight [kg]	L [mm]	z [mm]	SDR pipe
20	1/2	701 485 870	1	40	0.131	75	29	11
25	3/4	701 485 871	1	40	0.182	76	29	11
32	1	701 485 872	1	30	0.259	80	31	11
40	1 1/4	701 485 873	1	20	0.411	82	33	11
50	1 1/2	701 485 874	1	20	0.510	88	38	11
63	2	701 485 875	1	12	0.778	98	41	11



Transition adaptor PE/brass (CW617N) 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

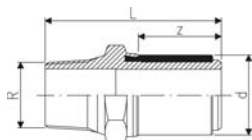


d [mm]	Rp [inch]	Code	SP	GP	Weight [kg]	L [mm]	z [mm]	SDR pipe
32	1	701 485 876	1	30	0.249	71	31	11
40	1 ¼	701 485 877	1	20	0.392	77	33	11
50	1 ½	701 485 878	1	20	0.588	81	38	11
63	2	701 485 879	1	12	0.836	89	41	11



Transition adaptor PE/brass (CW617N) 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

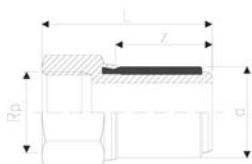


d [mm]	R [inch]	Code	SP	GP	Weight [kg]	L [mm]	z [mm]	SDR pipe
20	½	701 485 860	1	50	0.127	75	33	11
25	¾	701 485 861	1	40	0.182	76	33	11
32	1	701 485 862	1	30	0.256	80	35	11
32	1 ¼	701 485 880	1	30	0.375	82	35	11
32	1 ½	701 485 881	1	30	0.370	82	35	11
40	1	701 485 882	1	20	0.358	84	39	11
40	1 ¼	701 485 863	1	20	0.410	86	39	11
40	1 ½	701 485 883	1	20	0.480	86	39	11
50	1	701 485 885	1	20	0.463	88	43	11
50	1 ¼	701 485 884	1	20	0.539	90	43	11
50	1 ½	701 485 864	1	20	0.508	90	43	11
63	1 ¼	701 485 886	1	12	0.702	94	47	11
63	1 ½	701 485 887	1	12	0.710	94	47	11
63	2	701 485 865	1	12	0.776	98	47	11

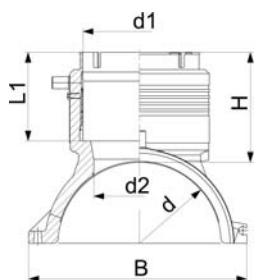


Transition adaptor PE/brass (CW617N) Female thread type LU

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



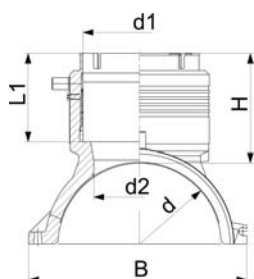
d [mm]	Rp [inch]	Code	SP	GP	Weight [kg]	L [mm]	z [mm]	SDR pipe
32	1	701 485 866	1	30	0.244	71	35	11
40	1 ¼	701 485 867	1	20	0.387	77	39	11
50	1 ½	701 485 868	1	20	0.593	81	43	11
63	1	701 485 972	1	12	1.071	89	47	11
63	1 ¼	701 485 973	1	20	1.017	89	47	11
63	1 ½	701 485 974	1	12	0.938	89	47	11
63	2	701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



Branch saddle type LU outlet 90 - 125 mm

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Branch Saddle complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]	SDR pipe
110	90	701 488 021	1	4	1.074	101	220	81	164	65	9 - 17.6
110	110	701 488 022	1	4	1.152	107	220	87	164	65	9 - 17.6
125	90	701 488 023	1	4	1.134	101	220	81	179	65	9 - 17.6
125	110	701 488 024	1	4	1.258	107	220	87	179	65	9 - 17.6
160	90	701 488 025	1	6	1.444	102	240	81	215	86	9 - 17.6
160	110	701 488 026	1	4	1.523	108	240	87	215	86	9 - 17.6
160	125	701 488 027	1	4	1.738	129	240	98	215	86	9 - 17.6
180	90	701 488 028	1	1	1.729	102	260	81	237	65	9 - 17.6
180	110	701 488 029	1	1	1.782	108	260	87	237	86	9 - 17.6
180	125	701 488 030	1	1	1.972	129	260	98	237	86	9 - 17.6
200	90	701 488 031	1	1	1.811	102	260	81	253	65	9 - 17.6
200	110	701 488 032	1	1	1.879	108	260	87	253	86	9 - 17.6
200	125	701 488 033	1	2	2.069	129	260	98	253	86	9 - 17.6
225	90	701 488 034	1	1	1.959	102	260	81	287	65	9 - 17.6
225	110	701 488 035	1	1	2.027	108	260	87	287	86	9 - 17.6
225	125	701 488 036	1	1	2.217	129	260	98	287	86	9 - 17.6
250	90	701 488 037	1	1	2.116	102	260	81	312	65	9 - 17.6
250	110	701 488 038	1	1	2.184	108	260	87	312	86	9 - 17.6
250	125	701 488 039	1	1	2.374	129	260	98	312	86	9 - 17.6



Branch saddle topload type LU outlet 90 - 125 mm

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Branch Saddle for assembling as Topload with tool 799.350.477; angle adaptors (799.350.340) for fusion cable required
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators

d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]	SDR pipe
280	90	701 488 150	1	5	1.180	102	260	82	243	65	9 - 26
280	110	701 488 151	1	5	1.280	108	260	88	243	86	9 - 26
280	125	701 488 152	1	5	1.480	129	260	99	243	86	9 - 26
315 - 355	90	701 488 160	1	5	1.180	102	260	82	250	65	9 - 26
315 - 355	110	701 488 161	1	5	1.280	108	260	88	250	86	9 - 26
315 - 355	125	701 488 162	1	5	1.480	129	260	99	250	86	9 - 26
400 - 450	90	701 485 170	1	5	1.180	102	260	82	256	65	9 - 26
400 - 450	110	701 485 171	1	5	1.280	108	260	88	256	86	9 - 26
400 - 450	125	701 485 172	0	0	1.840	129	260	99	256	86	9 - 26
500 - 630	90	701 488 146	1	5	1.060	102	260	82	263	65	9 - 26
500 - 630	110	701 488 147	1	5	1.160	108	260	88	263	86	9 - 26
500 - 630	125	701 488 148	1	5	1.480	129	260	99	263	86	9 - 26



Cross connection branch saddle

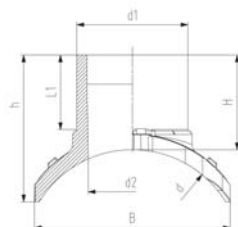
- Enables the connection of two Branch Saddle as a cross
- Complete with screws, flat washers and nuts

d [mm]	Code	SP	GP	Weight [kg]	
110 - 160	193 280 880	1	10	0.268	
180 - 250	193 280 881	1	10	0.282	



Branch saddle topload Type LU Outlet 160 - 225 mm

- **PE 100 SDR 11 (ISO S5)**
- 10 bar Gas / 16 bar Water
- Branch Saddle installation only with installation set Topload TL225 (799.300.807); angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Limited path fusion indicators
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor

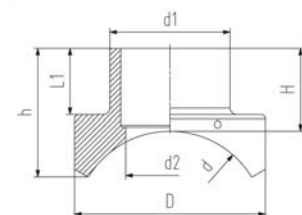


d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	h [mm]	H [mm]	L [mm]	L1 [mm]	B [mm]	d2 [mm]	SDR pipe
315	160	701 135 402	1	1	2.662	212	137	322	110	282	131	11 - 26
315	225	701 135 404	1	1	4.594	306	160	366	127	260	184	11 - 26
355	160	701 135 412	1	1	2.662	206	137	322	110	282	131	11 - 26
355	225	701 135 414	1	1	4.710	319	160	366	127	249	184	11 - 26
400	160	701 135 422	1	1	2.678	198	137	322	110	300	131	11 - 26
400	225	701 135 424	1	1	4.700	329	160	366	127	241	184	11 - 26
450	160	701 135 432	1	1	2.678	194	137	322	110	300	131	11 - 26
450	225	701 135 434	1	1	4.700	329	160	366	127	233	184	11 - 26
500	160	701 135 442	1	1	2.678	186	137	322	110	310	131	11 - 26
500	225	701 135 444	1	1	4.650	344	160	366	127	226	184	11 - 26
560	160	701 135 452	1	1	2.708	183	137	322	110	310	131	11 - 26
560	225	701 135 454	1	1	4.650	344	160	366	127	220	184	11 - 26
630	160	701 135 462	1	1	2.500	177	137	322	110	312	131	11 - 26
630	225	701 135 464	1	1	4.630	353	160	366	127	214	184	11 - 33
710	160	701 135 472	1	1	2.500	172	137	322	110	312	131	11 - 33
710	225	701 135 474	1	1	4.630	352	160	366	127	208	184	11 - 33
800	160	701 135 482	1	1	2.500	168	137	322	110	312	131	11 - 33
800	225	701 135 484	1	1	4.610	359	160	366	127	203	184	11 - 33
900	225	701 135 494	1	1	4.610	359	160	366	127	199	184	11 - 33
1000	225	701 135 504	1	1	4.610	359	160	366	127	195	184	11 - 33



Branch saddle topload Type LU Outlet 315 - 500 mm

- **PE 100 SDR 11 (ISO S5)**
- 10 bar Gas / 16 bar Water
- Branch saddle installation only with installation set Topload TL315 (799.350.808) or TL500 (799.300.809)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor



d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	h [mm]	H [mm]	L [mm]	L1 [mm]	D [mm]	d2 [mm]	SDR pipe
500	315	701 135 446	1	1	17.000	337	216	500	157	500	232	11 - 26
560	315	701 135 456	1	1	16.100	327	216	500	157	500	232	11 - 26
630	315	701 135 466	1	1	15.400	312	216	500	157	500	232	11 - 33

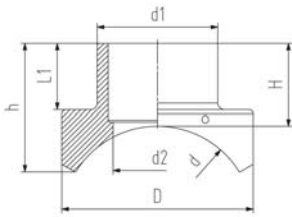
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d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	h [mm]	H [mm]	L [mm]	L1 [mm]	D [mm]	d2 [mm]	SDR pipe
710	315	701 135 476	1	1	14.800	296	216	500	157	500	232	11 - 33
800	315	701 135 486	1	1	14.300	287	216	500	157	500	232	11 - 33
900	315	701 135 496	1	1	13.800	282	216	500	157	500	232	11 - 33
1000	315	701 135 506	1	1	13.500	274	216	500	157	500	232	11 - 33



Branch saddle toplevel Type LU Outlet 315 - 500 mm

- PE 100 SDR 17 (ISO S8)
- 5 bar Gas / 10 bar Water
- Branch saddle installation only with installation set Topload TL315 (799.350.808) or TL500 (799.300.809)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor

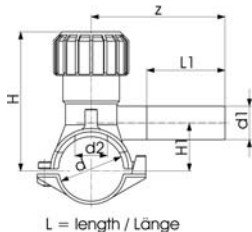


d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	h [mm]	H [mm]	L [mm]	L1 [mm]	D [mm]	d2 [mm]	SDR pipe
710	315	701 135 676	1	1	14.000	296	216	500	157	500	250	11 - 33
800	315	701 135 686	1	1	13.500	287	216	500	157	500	250	11 - 33
900	315	701 135 696	1	1	13.100	281	216	500	157	500	250	11 - 33
900	500	701 135 698	1	1	32.600	406	280	700	219	700	397	11 - 33
1000	315	701 135 706	1	1	12.800	277	216	500	157	500	250	11 - 33
1000	500	701 135 708	1	1	31.400	397	280	700	219	700	397	11 - 33
1200	315	701 135 716	1	1	12.300	267	216	500	157	500	250	11 - 33
1200	500	701 135 718	1	1	29.400	377	280	700	219	700	397	11 - 33
1400	315	701 135 726	1	1	11.900	257	216	500	157	500	250	11 - 33
1400	500	701 135 728	1	1	28.100	362	280	700	219	700	397	11 - 33
1600	315	701 135 736	1	1	11.700	252	216	500	157	500	250	11 - 33
1600	500	701 135 738	1	1	27.100	352	280	700	219	700	397	11 - 33
2000	315	701 135 746	1	1	11.300	246	216	500	157	500	250	11 - 33
2000	500	701 135 748	1	1	25.700	337	280	700	219	700	397	11 - 33

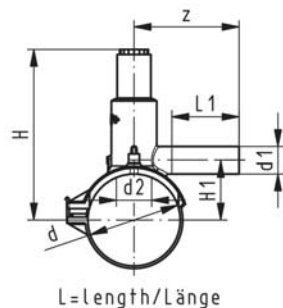


Tapping saddle Monobloc version

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



d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
40	20	701 131 412	1	6	0.225	16	99	33	103	70	102	9 - 11
40	25	701 131 413	1	6	0.226	16	99	33	103	70	102	9 - 11
40	32	701 131 414	1	6	0.225	16	99	33	103	70	120	9 - 11
50	20	701 131 422	1	5	0.214	16	104	38	103	70	102	9 - 11
50	25	701 131 423	1	5	0.212	16	104	38	103	70	102	9 - 11
50	32	701 131 424	1	5	0.228	16	104	38	103	70	120	9 - 11

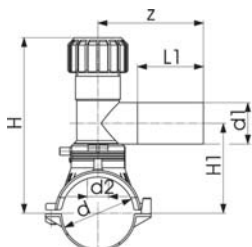


Tapping saddle type LU Monobloc version

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

	d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]
*	63	20	701 131 932	1	20	0.413
	63	25	701 131 933	1	20	0.387
*	63	32	701 131 934	1	20	0.398
*	90	20	701 131 952	1	12	0.494
	90	25	701 131 953	1	12	0.527
*	90	32	701 131 954	1	12	0.538
	90	40	701 131 955	1	10	0.450
	90	50	701 131 956	1	10	0.450
	90	63	701 131 957	1	10	0.450
*	110	20	701 131 962	1	9	0.563
	110	25	701 131 963	1	9	0.570
*	110	32	701 131 964	1	9	0.580
	110	40	701 131 965	1	8	0.600
	110	50	701 131 966	1	8	0.600
	110	63	701 131 967	1	8	0.600
*	125	20	701 131 972	1	6	0.566
	125	25	701 131 973	1	6	0.568
*	125	32	701 131 974	1	6	0.597
	125	40	701 131 975	1	6	0.597
	125	50	701 131 976	1	6	0.597
	125	63	701 131 977	1	6	0.597
*	160	20	701 131 992	1	6	0.665
	160	25	701 131 993	1	6	0.640
*	160	32	701 131 994	1	6	0.671
	160	40	701 131 995	1	6	0.790
	160	50	701 131 996	1	6	0.790
	160	63	701 131 997	1	6	0.790

	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
*	25	146	44	144	76	110	9 - 11
	25	146	44	144	76	110	9 - 11
*	25	146	44	144	76	110	9 - 11
*	32	198	61	162	76	110	9 - 17.6
	32	198	61	162	76	115	9 - 17.6
*	32	198	61	162	76	115	9 - 17.6
	32	198	61	162	57	197	9 - 17.6
	32	198	61	162	63	203	9 - 17.6
	32	198	61	162	76	115	9 - 17.6
*	32	208	71	162	76	115	9 - 17.6
	32	208	71	162	76	115	9 - 17.6
*	32	208	71	162	76	125	9 - 17.6
	32	208	71	162	57	192	9 - 17.6
	32	208	71	162	63	203	9 - 17.6
	32	208	71	162	100	125	9 - 17.6
*	32	216	79	162	76	120	9 - 17.6
	32	216	79	162	76	120	9 - 17.6
*	32	216	79	162	76	120	9 - 17.6
	32	216	79	162	57	197	9 - 17.6
	32	216	79	162	63	203	9 - 17.6
	32	216	79	162	76	120	9 - 17.6
*	32	233	96	162	76	120	9 - 17.6
	32	233	96	162	76	125	9 - 17.6
*	32	233	96	162	76	130	9 - 17.6
	32	233	96	162	57	197	9 - 17.6
	32	233	96	162	63	203	9 - 17.6
	32	233	96	162	100	170	9 - 17.6



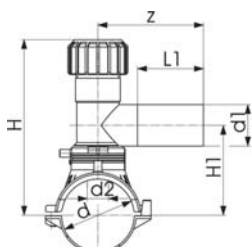
L = length / Länge

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
- **Suitable to tap SDR11 pipes**
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap
- Delivery without lower part for assembling as Top Load with tool no. 799.350.477; angle adaptor (799.350.340) for fusion cable required

d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]
315-355	63	193 131 867	1	5	1.473
400	63	193 131 877	1	5	1.473

d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
33	328	206	165	100	160	11 - 33
33	328	206	165	100	160	11 - 33



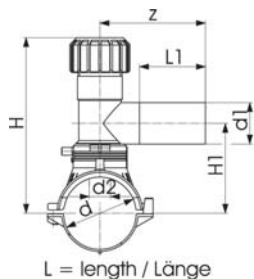
L = length / Länge

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

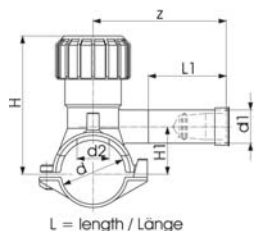
d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]
63	40	701 131 405	1	5	0.718
63	50	701 132 436	1	5	1.619
63	63	701 131 437	1	5	1.455
75	32	701 131 444	1	3	0.812
75	40	701 131 445	1	3	0.849
75	50	701 132 446	1	5	1.748
75	63	701 131 447	1	5	1.549
180	20	193 131 502	1	3	0.994
180	25	193 131 503	1	3	1.001
180	32	193 131 504	1	5	0.957
180	40	193 131 505	1	3	1.007
180	63	193 131 507	1	3	1.587
200	20	193 131 512	1	3	1.015
200	25	193 131 513	1	5	1.015
200	32	193 131 514	1	3	0.985
200	40	193 131 515	1	3	1.024
200	63	193 131 517	1	3	1.745
225	20	193 131 522	1	3	1.016
225	25	193 131 523	1	3	1.025
225	32	193 131 524	1	3	1.019
225	40	193 131 525	1	5	1.029
225	63	193 131 527	1	3	1.738
250	20	193 131 532	1	3	1.025

table continued next page



	d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]
	250	25	193 131 533	1	3	1.026
	250	32	193 131 534	1	3	0.996
	250	40	193 131 535	1	3	1.008
	250	63	193 131 537	1	3	1.733
*	280	63	193 131 547	1	5	1.478
*	315-355	63	193 131 557	1	5	1.481
*	400	63	193 131 577	1	5	1.473

	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	SDR pipe
	32	186	108	165	81	137	9 - 11
	32	234	112	165	100	160	9 - 11
	32	134	112	165	100	160	9 - 11
	32	191	113	165	76	130	9 - 11
	32	191	113	165	81	137	9 - 11
	32	240	118	165	100	160	9 - 11
	32	240	118	165	100	160	9 - 11
	32	244	166	165	71	130	9 - 26
	32	244	166	165	71	130	9 - 26
	32	244	166	165	76	130	9 - 26
	32	244	166	165	81	137	9 - 26
	35	293	171	165	100	160	9 - 26
	32	254	176	165	71	130	9 - 26
	32	254	176	165	71	130	9 - 26
	32	254	176	165	76	130	9 - 26
	32	254	176	165	81	137	9 - 26
	35	303	181	165	100	160	9 - 26
	32	266	188	165	71	130	11 - 26
	32	266	188	165	71	130	11 - 26
	32	266	188	165	76	130	11 - 26
	32	266	188	165	81	137	11 - 26
	35	315	193	165	100	160	11 - 26
	32	279	201	165	76	130	11 - 26
	32	279	201	165	76	130	11 - 26
	32	279	201	165	76	130	11 - 26
	32	279	201	165	81	137	11 - 26
	35	328	206	165	100	160	11 - 26
*	35	328	206	165	100	160	11 - 26
*	35	328	206	165	100	160	17 - 33
*	35	328	206	165	100	160	17 - 33

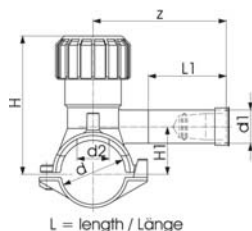


Tapping saddle with gas-stop type 1-5 bar Monobloc version

- **PE 100 SDR 11 (ISO S5)**
- 5 bar Gas (for pressure 1 bar -5 bar)
- With integrated cutter to tap live mains under pressure
- Gas-Stop System Pipelife (GS 20/1 or GS 32/1)
- **Without overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap

d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]
40	20	701 281 113	1	6	0.229
40	32	701 281 152	1	6	0.277

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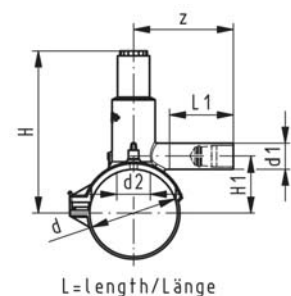


d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	Vn max [m³/h]	SDR pipe	
16	99	33	103	70	102	25	9 - 11	
16	99	33	103	70	120	100	9 - 11	



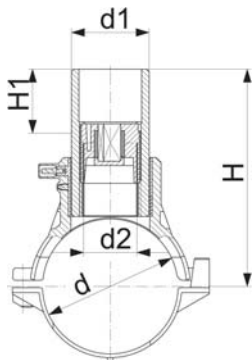
Tapping saddle with gas-stop type 1-5 bar Monobloc version

- **PE 100 SDR 11 (ISO S5)**
- 5 bar Gas (for pressure 1 bar -5 bar)
- With integrated cutter to tap live mains under pressure
- Complete with moulded-on lower part
- Gas-Stop System Pipelife (GS 20/1 or GS 32/1)
- **Without overflow orifice**
- Set comes with Gas-Stop pre-assembled
- Installation instructions of Gas-Stop manufacturer are to be observed
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap



d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	
63	20	701 130 432	1	20	0.368	
63	32	701 130 434	1	20	0.392	
90	20	701 130 452	1	12	0.524	
90	32	701 130 454	1	12	0.520	
110	20	701 130 462	1	9	0.552	
110	32	701 130 464	1	9	0.677	
125	20	701 130 472	1	6	0.664	
125	32	701 130 474	1	6	0.609	
160	20	701 130 492	1	6	0.672	
160	32	701 130 494	1	6	0.786	

d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]	Vn max [m³/h]	SDR pipe	
25	146	44	144	76	110	25	9 - 11	
25	146	44	144	76	110	100	9 - 11	
32	198	61	162	76	115	25	9 - 17.6	
32	198	61	162	76	115	100	9 - 17.6	
32	208	71	162	76	115	25	9 - 17.6	
32	208	71	162	76	125	100	9 - 17.6	
32	216	79	162	76	120	25	9 - 17.6	
32	216	79	162	76	120	100	9 - 17.6	
32	233	96	162	76	120	25	9 - 17.6	
32	233	96	162	76	130	100	9 - 17.6	



L = length / Länge

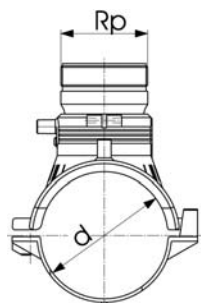
Spigot saddle with cutter

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- d315 - 400 mm: application is limited on pipes d355 and d400 mm. Not suitable for pipes if larger wall thickness than SDR 17 pipes.
- *Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required

	d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	
	63	32	193 131 234	1	5	0.469	
	63	63	193 131 237	1	5	1.036	
	75	32	193 131 244	1	5	0.618	
	75	63	193 131 247	1	5	1.166	
	90	32	193 131 254	1	5	0.543	
	90	63	193 131 257	1	5	1.128	
	110	32	193 131 264	1	3	0.607	
	110	63	193 131 267	1	3	1.195	
	125	32	193 131 274	1	5	0.659	
	125	63	193 131 277	1	5	1.224	
	140	32	193 131 284	1	5	0.679	
	140	63	193 131 287	1	5	1.224	
	160	32	193 131 294	1	5	0.652	
	160	63	193 131 297	1	5	1.186	
	180	32	193 131 304	1	5	0.777	
	180	63	193 131 307	1	5	1.316	
	200	32	193 131 314	1	1	0.854	
	200	63	193 131 317	1	1	1.352	
	225	32	193 131 324	1	5	0.856	
	225	63	193 131 327	1	5	1.324	
	250	32	193 131 334	1	5	0.787	
	250	63	193 131 337	1	5	1.348	
*	280	63	193 131 347	1	5	0.830	
*	315 - 355	63	193 131 357	1	5	1.094	
*	400	63	193 131 377	1	5	0.830	

	d [mm]	d1 [mm]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	SW [mm]	SDR pipe	
	63	32	19	145	50	165	13	9 - 11	
	63	63	32	152	50	165	17	9 - 11	
	75	32	19	151	50	165	13	9 - 11	
	75	63	32	158	50	165	17	9 - 11	
	90	32	19	158	50	165	13	9 - 11	
	90	63	32	165	50	165	17	9 - 11	
	110	32	19	168	50	165	13	9 - 11	
	110	63	32	175	50	165	17	9 - 11	
	125	32	19	176	50	165	13	9 - 11	
	125	63	32	183	50	165	17	9 - 11	
	140	32	19	183	50	165	13	9 - 11	
	140	63	32	190	50	165	17	9 - 11	
	160	32	19	193	50	165	13	9 - 11	
	160	63	32	200	50	165	17	9 - 11	
	180	32	19	203	50	165	13	9 - 26	
	180	63	32	210	50	165	17	9 - 26	
	200	32	19	213	50	165	13	9 - 26	
	200	63	32	220	50	165	17	9 - 26	
	225	32	19	226	50	165	13	11 - 26	
	225	63	32	233	50	165	17	11 - 26	
	250	32	19	238	50	165	13	11 - 26	
	250	63	32	245	50	165	17	11 - 26	
*	280	63	35	245	50	165	17	11 - 26	
*	315 - 355	63	35	245	50	165	17	17 - 33	
*	400	63	35	245	50	165	17	17 - 33	

Stop-off saddle (kit) Maximum passage 56 mm

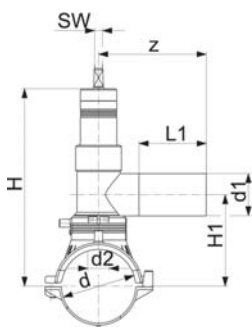


L = length / Länge

- **PE 100 SDR 11 (ISO S5)**
- 10 bar Gas / 16 bar Water
- Complete with lower part
- Stop-Off insert (brass 58) and plug
- 4 mm pin connectors
- Limited path fusion indicators
- Stop-Off insert with outside thread Rp 2 1/2" and internal thread Rp 2" suited for common tapping devices permitting "gas-tight" installation
- *Delivery without lower part for assembling as Top Load with tool no. 799.350.475; angle adaptor (799.350.340) for fusion cable required
- For main dimension d63 and d75mm we recommend a maximum cutting diameter of d = 39mm

d [mm]	Rp [inch]	Code	SP	GP	Weight [kg]	L [mm]	SDR pipe
63	2 ½	193 149 437	1	3	1.770	165	9 - 11
75	2 ½	193 149 447	1	3	1.900	165	9 - 11
90	2 ½	193 149 457	1	3	1.775	165	9 - 11
110	2 ½	193 149 467	1	3	1.788	165	9 - 11
125	2 ½	193 149 477	1	3	1.923	165	9 - 11
140	2 ½	193 149 487	1	3	1.945	165	9 - 11
160	2 ½	193 149 497	1	5	1.861	165	9 - 11
180	2 ½	193 149 507	1	5	2.017	165	9 - 26
200	2 ½	193 149 517	1	5	2.092	165	9 - 26
225	2 ½	193 149 527	1	5	2.031	165	11 - 26
250	2 ½	193 149 537	1	5	2.058	165	11 - 26
*	280	193 149 547	1	5	1.550	165	11 - 26
*	315 - 355	193 149 557	1	5	1.770	165	17 - 33
*	400	193 149 577	1	5	1.550	165	17 - 33

Pressure tapping valve With 360° rotatable outlet type LU

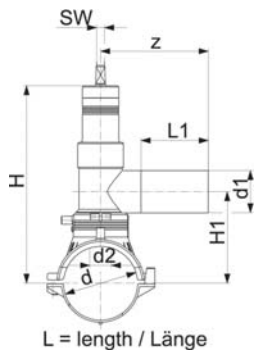


L = length / Länge

- **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

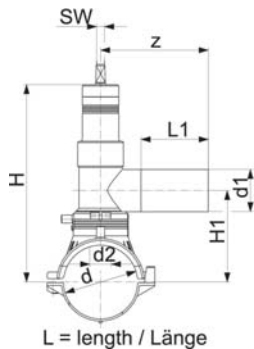
d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	H1 [mm]	d2 [mm]	L1 [mm]	H [mm]	L [mm]	z [mm]	SDR pipe
63	32	701 488 700	1	5	2.935	97	21	70	202	165	127	11
63	63	701 488 720	1	5	2.682	112	31	100	272	165	160	11
75	32	701 488 701	1	5	2.793	103	21	70	208	165	127	11
75	63	701 488 721	1	5	3.065	118	31	100	278	165	160	11
90	32	701 488 702	1	5	1.909	111	21	70	216	165	127	11-17/17.6
90	63	701 488 722	1	5	2.775	126	31	100	286	165	160	11-17/17.6
110	32	701 488 703	1	3	1.925	121	21	70	226	165	127	11-17/17.6
110	63	701 488 723	1	3	2.797	136	31	100	296	165	160	11-17/17.6
125	32	701 488 704	1	3	1.874	128	21	70	233	165	127	11-17/17.6
125	63	701 488 724	1	3	2.854	143	31	100	303	165	160	11-17/17.6
140	32	701 488 705	1	3	3.123	136	21	70	241	165	127	11-17/17.6
140	63	701 488 725	1	3	3.123	151	31	100	311	165	160	11-17/17.6
160	32	701 488 706	1	3	1.983	146	21	70	251	165	127	11-17/17.6
160	63	701 488 726	1	3	2.880	161	31	100	321	165	160	11-17/17.6
180	32	701 488 707	1	3	2.090	156	21	70	261	165	127	11-17/17.6

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d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	H1 [mm]	d2 [mm]	L1 [mm]	H [mm]	L [mm]	z [mm]	SDR pipe
180	63	701 488 727	1	3	2.964	171	31	100	331	165	160	11-17/17.6
200	32	701 488 708	1	3	2.949	166	21	70	271	165	127	11-17/17.6
200	63	701 488 728	1	3	3.251	181	31	100	341	165	160	11-17/17.6
225	32	701 488 709	1	3	3.253	178	21	70	281	165	127	11-17/17.6
225	63	701 488 729	1	3	3.253	193	31	100	353	165	160	11-17/17.6
250	63	701 488 730	1	3	3.000	206	31	100	366	165	160	11-17/17.6

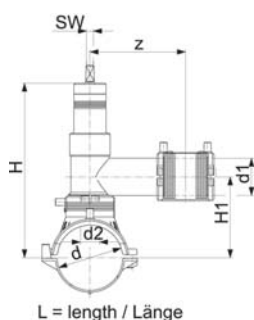
Pressure tapping valve With 360° rotatable outlet type LU



- **PE 100 SDR 17 (ISO S8)**
- 10 bar Gas / 16 bar Water
- 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
- **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

	d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	z [mm]
*	250	32	701 488 710	1	3	3.000	21	293	191	165	70	127
*	280	32	701 488 711	1	3	3.000	21	293	191	165	70	127
*	280	63	701 488 731	1	3	3.000	31	366	206	165	100	160
*	315-355	32	701 488 712	1	3	2.683	21	293	191	165	70	127
*	315-355	63	701 488 732	1	3	3.000	31	366	206	165	100	160
*	400	32	701 488 733	1	3	2.683	21	293	191	165	70	127
*	400	63	701 488 734	1	3	3.000	31	366	206	165	100	160

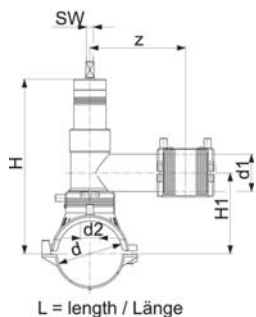
Pressure tapping valve (kit) With 360° rotatable outlet



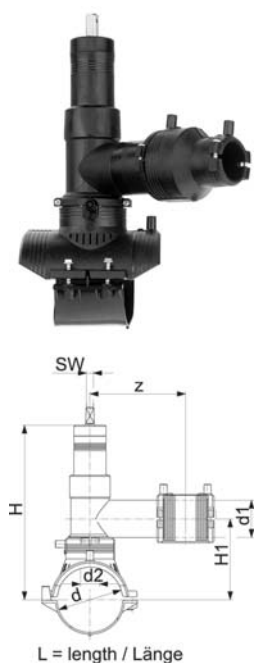
- **PE 100 SDR 11 (ISO S5)**
- 10 bar Gas / 16 bar Water
- With integrated drill bit to tap live mains under pressure
- Complete with lower part and premounted PE100 coated valve piece
- The valve is closed clockwise
- Number of turns to fully open or close valve is 13 for outlet d32
- Number of turns 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	SP	GP	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]
63	32	701 488 912	1	5	3.113	21	202	97	165	127
63	40	701 488 913	1	5	3.119	31	272	112	165	160
63	50	701 488 914	1	5	3.131	31	272	112	165	160
63	63	701 488 915	1	5	3.129	31	272	112	165	160
75	32	701 488 916	1	5	1.998	21	208	103	165	127

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d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]	
75	40	701 488 917	1	3	3.249	31	278	118	165	160	
75	50	701 488 918	1	5	3.261	31	278	118	165	160	
75	63	701 488 919	1	5	3.016	31	278	118	165	160	
90	32	701 488 920	1	5	1.878	21	216	111	165	127	
90	40	701 488 921	1	5	3.209	31	286	126	165	160	
90	50	701 488 922	1	5	3.215	31	286	126	165	160	
90	63	701 488 923	1	5	3.025	31	286	126	165	160	
110	32	701 488 924	1	3	3.093	21	226	121	165	127	
110	40	701 488 925	1	3	2.867	31	296	136	165	160	
110	50	701 488 926	1	3	3.093	31	296	136	165	160	
110	63	701 488 927	1	3	3.093	31	296	136	165	160	
125	32	701 488 928	1	3	3.123	21	233	128	165	127	
125	40	701 488 929	1	3	3.123	31	303	143	165	160	
125	50	701 488 930	1	3	3.123	31	303	143	165	160	
125	63	701 488 931	1	3	3.123	31	303	143	165	160	
140	32	701 488 932	1	3	3.123	21	241	136	165	127	
140	40	701 488 933	1	3	3.041	31	311	151	165	160	
140	50	701 488 934	1	3	3.123	31	311	151	165	160	
140	63	701 488 935	1	3	3.123	31	311	151	165	160	
160	32	701 488 936	1	3	3.126	21	251	146	165	127	
160	40	701 488 937	1	3	3.126	31	321	161	165	160	
160	50	701 488 938	1	3	3.126	31	321	161	165	160	
160	63	701 488 939	1	3	3.126	31	321	161	165	160	
180	32	701 488 940	1	3	3.232	21	261	156	165	127	
180	40	701 488 941	1	3	3.097	31	331	171	165	160	
180	50	701 488 942	1	3	3.226	31	331	171	165	160	
180	63	701 488 943	1	3	3.232	31	331	171	165	160	
200	32	701 488 944	1	3	3.251	21	271	166	165	127	
200	40	701 488 945	1	3	3.251	31	341	181	165	160	
200	50	701 488 946	1	3	3.251	31	341	181	165	160	
200	63	701 488 947	1	3	3.047	31	341	181	165	160	
225	32	701 488 948	1	3	3.253	21	281	178	165	127	
225	40	701 488 949	1	3	3.253	31	353	193	165	160	
225	50	701 488 950	1	3	3.253	31	353	193	165	160	
225	63	701 488 951	1	3	3.253	31	353	193	165	160	
250	40	701 488 953	1	3	3.000	31	366	206	165	160	
250	50	701 488 954	1	3	3.000	31	366	206	165	160	
250	63	701 488 955	1	3	3.000	31	366	206	165	160	

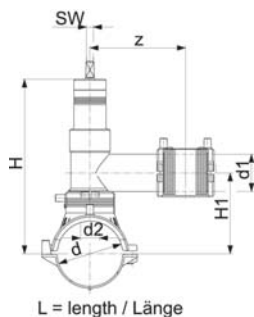


Pressure tapping valve (kit) With 360° rotatable outlet

- 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	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]	
*	250	32	701 488 952	1	3	3.000	21	293	191	165	127	
*	280	32	701 488 956	1	3	3.000	21	293	191	165	127	
*	280	40	701 488 957	1	3	3.000	31	366	206	165	160	
*	280	50	701 488 958	1	3	3.000	31	366	206	165	160	

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	d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	d2 [mm]	H [mm]	H1 [mm]	L [mm]	z [mm]	
*	280	63	701 488 959	1	3	3.000	31	366	206	165	160	
*	315 - 355	32	701 488 960	1	3	3.000	21	293	191	165	127	
*	315 - 355	40	701 488 961	1	3	3.000	31	366	206	165	160	
*	315 - 355	50	701 488 962	1	3	3.000	31	366	206	165	160	
*	315 - 355	63	701 488 963	1	3	3.000	31	366	206	165	160	



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	SP	GP	Weight [kg]	L [mm]	
0.75	160 050 620	0	0	0.897	490	
1.00	160 050 621	0	0	1.544	740	
1.25	160 050 622	0	0	1.944	990	
1.50	160 050 623	0	0	2.246	1180	



Extension spindle for tapping valve telescopic

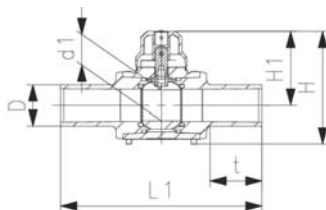
- Continuously adjustable and self-supporting
- Pullout- and dirt-safe
- Rod hot-dip galvanized
- PE-casing and PE-centering cap with gasket
- Clip-pin from stainless steel 1.4301
- Bush CI40 with slot and clip-pin (tool-free connection)
- PE-sleeve, suitable for tapping valve

Pipe cover [m]	Code	SP	GP	Weight [kg]	L [m]	
0.75-1.00	160 050 520	1	0	1.475	0.44 - 0.70	
1.00-1.50	160 050 521	1	0	2.356	0.73 - 1.29	
1.30-1.90	160 050 522	0	0	2.881	0.89 - 1.59	
1.70-2.70	160 050 523	0	0	2.000	1.38 - 2.34	



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 / DVGW VP302
- 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

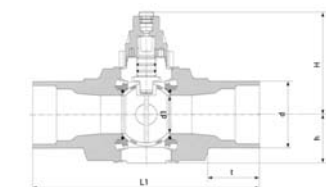


d [mm]	Code	SP	GP	Weight [kg]	Weight [kg]	L1 [mm]	t [mm]	H [mm]	H1 [mm]	d1 [mm]	
20	193 103 206	1	0	0.487	1	264	72	134	96	23	
25	193 103 207	1	0	0.490	1	264	72	134	96	23	
32	193 103 208	1	0	0.506	1	274	76	134	96	23	
40	193 103 209	1	0	0.616	1	301	85	142	100	30	
50	193 103 210	1	0	0.829	1	327	92	156	107	38	
63	193 103 211	1	0	1.174	1	350	101	173	114	48	
75	193 103 212	1	0	1.434	1	376	114	173	114	48	
90	193 103 213	1	0	2.918	3	439	128	240	158	68	
110	193 103 214	1	0	4.416	5	497	148	267	171	83	
125	193 103 040	0	0	4.220	4	405	112	365	280	64	
160	193 103 042	0	0	10.541	10	450	117	481	364	92	
180	193 103 043	0	0	10.524	10	540	123	481	364	92	
200	193 103 044	1	0	12.023	11	540	123	481	364	92	
225	193 103 045	1	0	24.400	19	877	240	755	540	120	



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
- For extension spindles with polygon connection



d [mm]	Code	SP	GP	Weight [kg]	Weight [kg]	L1 [mm]	t [mm]	H [mm]	H1 [mm]	d1 [mm]	
110	193 104 039	0	0	8.973	8	561	100	359	242	92	
160	193 104 042	0	0	24.254	17	645	145	475	325	120	



ELGEF Plus operational key

- Made out of PVC
- Suitable for all dimensions

Length [mm]	Code	SP	GP	Weight [kg]	
200	173 103 082	0	0	0.378	
500	173 103 083	0	0	0.753	
1240	173 103 084	0	0	1.714	



ELGEF Plus accessory kit

- Extension spindle made out of PVC
- 100% plastic solution for a non-corrosive system

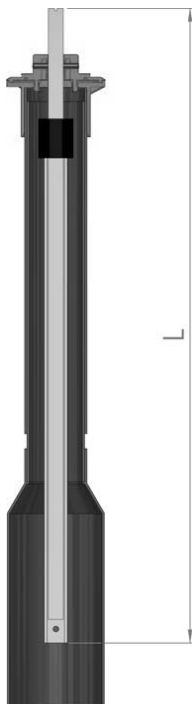
Article	Code	SP	GP	Weight [kg]	
Kit	173 103 056	0	0	1.695	



Extension spindle

- Extension spindle made out of PVC
- 100% plastic solution for a non-corrosive system

Length [mm]	Code	SP	GP	Weight [kg]	
500	173 103 080	0	0	0.770	



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	L [m]	Code	SP	GP	Weight [kg]	
20 - 75	0.75-1.10	1 - 1	173 103 175	1	0	1.590	
20 - 75	1.10-1.70	1 - 2	173 103 176	1	0	2.544	
20 - 75	1.60-2.50	1 - 2	173 103 177	1	0	3.872	
90 - 110	0.75-1.10	1 - 1	173 103 185	1	70	2.500	
90 - 110	1.10-1.70	1 - 1	173 103 186	1	0	3.710	
90 - 110	1.60-2.50	1 - 2	173 103 187	1	0	6.040	



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	Code	SP	GP	Weight [kg]	
125 - 225	0.75-1.10	173 103 075	1	70	2.100	
125 - 225	1.10-1.80	173 103 076	1	0	3.108	
125 - 225	1.65-2.75	173 103 077	1	0	7.200	

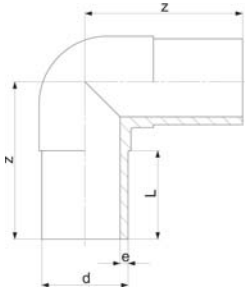
Monoline

L

Spigot fittings Type L

Monoline - Spigot fittings type L

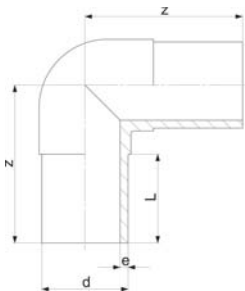
Elbow 90° type L



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

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	e [mm]	
20	701 485 220	1	40	0.027	75	52	3.0	
25	701 485 221	1	40	0.037	80	52	3.0	
32	701 485 222	1	100	0.056	85	54	3.0	
40	701 485 223	1	50	0.095	95	57	3.7	
50	701 485 224	1	30	0.159	105	63	4.6	
63	701 485 225	1	40	0.275	115	65	5.8	
75	701 485 226	1	12	0.413	130	72	6.8	
90	701 485 227	1	18	0.704	150	81	8.2	
110	701 485 228	1	10	1.145	165	86	10.0	
125	701 485 229	1	8	1.609	180	93	11.4	
140	701 485 230	1	5	1.950	202	92	12.7	
160	701 485 231	1	5	3.100	210	103	14.6	
180	701 485 232	1	3	4.319	232	107	16.4	
200	701 485 233	1	3	5.733	253	117	18.2	
225	701 485 234	1	1	7.729	270	122	20.5	
250	701 485 235	1	3	10.512	292	130	22.7	
280	753 100 922	1	2	15.059	320	140	25.4	
315	753 100 923	1	0	21.960	370	150	28.6	

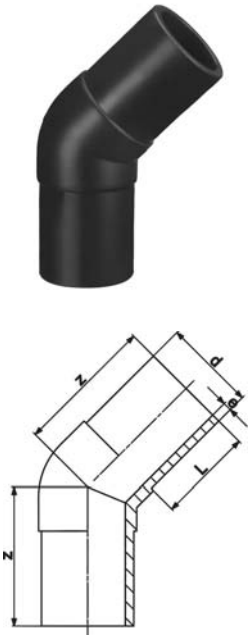
Elbow 90° type L



- 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

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	e [mm]	
90	701 485 377	1	18	0.553	150	81	5,4	
110	701 485 378	1	8	0.879	165	86	6,6	
125	701 485 379	1	8	0.927	180	93	7,4	
140	701 485 380	1	5	1.510	202	92	8,3	
160	701 485 381	1	5	3.040	210	102	9,5	
180	701 485 382	1	3	3.239	232	107	10,7	
200	701 485 383	1	3	4.980	253	115	11,9	
225	701 485 384	1	1	6.850	270	120	13,4	
250	753 100 821	1	3	8.000	292	130	14,8	
280	753 100 822	1	2	11.328	320	140	16,6	
315	753 100 823	1	1	15.877	370	150	18,7	

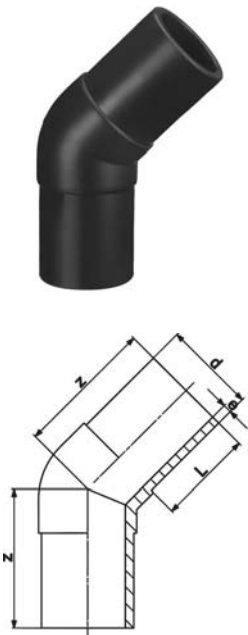
Elbow 45° type L



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

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	e [mm]
20	701 485 200	1	40	0.026	70	52	3,0
25	701 485 201	1	30	0.035	75	52	3,0
32	701 485 202	1	25	0.050	80	54	3,0
40	701 485 203	1	30	0.082	85	57	3,7
50	701 485 204	1	70	0.137	90	63	4,6
63	701 485 205	1	50	0.300	95	65	5,8
75	701 485 206	1	12	0.346	105	72	6,8
90	701 485 207	1	20	0.578	120	81	8,2
110	701 485 208	1	12	0.931	130	86	10,0
125	701 485 209	1	8	1.310	140	92	11,4
140	753 151 016	4	0	1.796	164	120	12,7
160	701 485 211	1	6	2.448	162	102	14,6
180	701 485 212	1	5	3.283	186	107	16,4
200	701 485 213	1	3	4.371	185	116	18,2
225	701 485 214	1	2	6.013	200	123	20,5
250	701 485 370	1	1	8.541	220	130	22,7
280	753 150 922	1	2	10.285	230	140	25,4
315	753 150 923	1	2	14.124	250	150	28,6

Elbow 45° type L



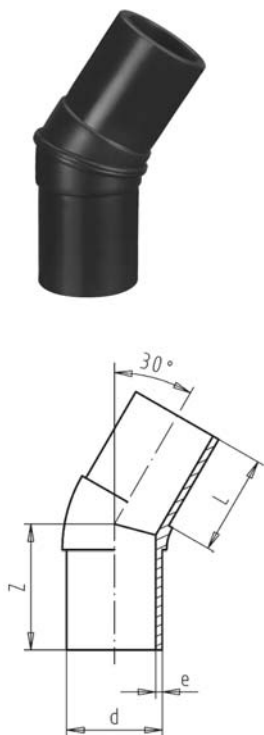
- PE 100 SDR 17 / 17,6 (ISO S8 / S8,3)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	e [mm]
90	701 485 367	1	20	0.450	120	81	5,4
110	701 485 368	1	12	0.900	130	86	6,6
125	701 485 369	1	8	0.980	140	92	7,4
140	753 150 816	4	0	1.259	164	120	8,3
160	701 485 371	1	6	1.784	162	102	9,5
180	701 485 372	1	5	3.060	170	107	10,7
200	701 485 373	1	3	4.100	186	116	11,9
225	701 485 374	1	2	4.368	205	123	13,4
250	753 150 821	1	3	6.012	217	130	14,8
280	753 150 822	1	2	7.489	230	140	16,6
315	753 150 823	1	2	10.123	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

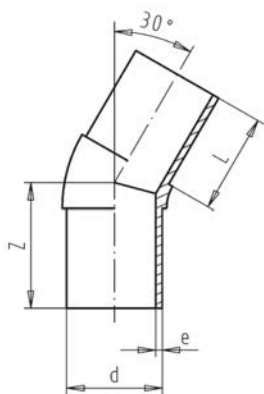
d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	e [mm]	
32	753 120 908	1	40	0.530	70	54	3,0	
40	753 120 909	1	30	0.530	80	57	3,7	
50	753 120 910	1	8	0.121	80	63	4,6	
63	701 485 351	1	15	0.207	80	65	5,8	
75	701 485 352	1	6	0.250	90	72	6,8	
90	701 585 020	1	10	0.880	100	81	8,2	
110	701 585 021	1	2	0.820	105	86	10,0	
125	701 485 355	1	4	1.176	115	92	11,4	
140	753 120 916	1	4	1.760	135	92	12,7	
160	701 585 022	1	2	2.050	130	130	14,6	
180	701 485 357	1	3	2.907	140	107	16,4	
200	701 485 358	1	2	3.820	150	116	18,2	
225	701 485 359	1	2	5.360	165	123	20,5	
250	753 120 921	1	1	7.307	190	130	22,7	
280	753 120 922	1	1	10.600	200	139	25,4	
315	753 120 923	1	1	12.775	200	150	28,6	



Elbow 30° type L

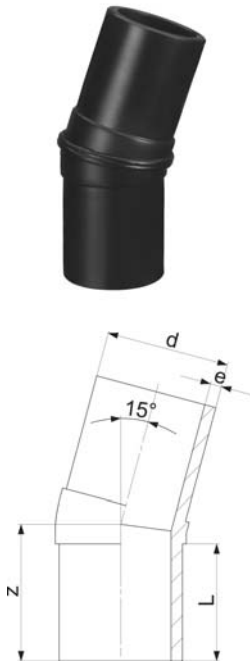
- PE 100 SDR 17 / 17,6 (ISO S8 / S8,3)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	e [mm]	
90	701 585 520	1	2	0.430	110	81	5,4	
110	701 585 521	1	5	0.620	115	86	6,5	
125	701 485 362	1	2	0.860	125	92	7,4	
140	753 120 816	1	4	1.112	150	92	8,3	
160	701 585 522	1	6	1.600	140	102	9,5	
180	701 485 364	1	3	2.040	150	107	10,7	
200	701 485 365	1	2	2.780	160	116	11,9	
225	701 485 366	1	2	3.880	180	123	13,4	
250	753 120 821	1	2	5.039	200	130	14,8	
280	753 120 822	1	1	8.100	200	139	16,6	
315	753 120 823	1	1	8.655	220	150	18,7	



Elbow 15° type L

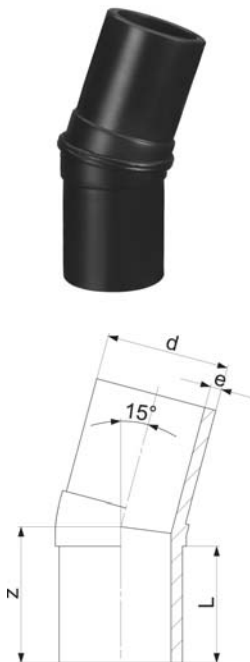
- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers



d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	e [mm]	
32	753 141 008	1	25	0.051	70	54	3.0	
40	753 141 009	1	30	0.082	80	57	3.7	
50	753 141 010	1	20	0.118	80	63	4.6	
63	701 485 060	8	0	0.200	80	65	5.8	
75	701 485 061	1	6	0.250	90	72	6.8	
90	701 485 062	1	7	0.487	100	81	8.2	
110	701 485 063	1	6	0.785	105	86	10.0	
125	701 485 064	1	5	1.070	115	92	11.4	
140	753 141 016	1	4	1.600	135	92	12.7	
160	701 485 066	1	6	2.050	130	102	14.6	
180	701 485 067	1	3	2.669	140	107	16.4	
200	701 485 068	1	2	3.440	150	116	18.2	
225	701 485 069	1	2	4.900	165	123	20.5	
250	753 141 021	1	1	8.300	190	130	22.7	
280	753 141 022	1	2	8.322	200	139	25.4	
315	753 141 023	1	1	11.292	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

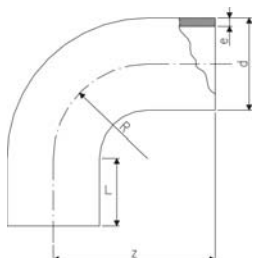


d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	e [mm]	
90	701 485 072	1	7	0.370	100	81	5.4	
110	701 485 073	1	6	0.620	105	86	6.6	
125	701 485 074	1	5	0.990	115	92	7.4	
140	753 140 816	1	4	0.370	135	92	8.3	
160	701 485 076	1	6	1.600	125	102	9.5	
180	701 485 077	1	3	2.040	135	107	10.7	
200	701 485 078	1	2	2.780	145	115	11.9	
225	753 140 820	1	2	3.335	165	123	13.4	
250	753 140 821	1	1	5.830	190	130	14.8	
280	753 140 822	1	1	8.100	195	139	16.6	
315	753 140 823	1	1	7.528	200	150	18.7	



Bend 90° PE100 SDR11

- Long spigot version
- bends made out of seamless pipe shall not be shortened
- 10 bar Gas / 16 bar Water
- * made out of seamless pipe. This shall not be shortened.



	d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]	
	32	753 001 008	25	0	0.050	78	46	32	2,9	
	40	753 001 009	15	0	0.090	91	49	40	3,7	
	50	753 001 010	40	0	0.160	107	55	50	4,6	
	63	753 001 011	50	0	0.280	130	63	63	5,8	
	75	753 001 012	1	16	0.464	152	70	75	6,8	
	90	753 001 013	18	0	0.530	168	79	90	8,2	
	110	753 001 014	1	12	1.282	193	82	110	10,0	
	125	753 001 015	15	0	1.290	216	87	125	11,4	
	140	753 001 016	5	0	2.230	232	92	140	12,7	
	160	753 001 017	1	4	3.424	258	98	160	14,6	
	180	753 001 018	6	0	5.000	290	105	180	16,4	
	200	753 001 019	4	0	6.925	317	112	200	18,2	
	225	753 001 020	2	0	9.770	350	120	225	20,5	
	250	753 001 021	2	0	9.230	375	130	250	22,7	
	280	753 001 022	1	0	15.487	430	150	280	25,4	
	315	753 001 023	1	0	23.950	470	150	315	28,6	
*	355	753 001 024	0	0	53.300	900	250	533	32,3	
*	400	753 001 025	0	0	71.900	980	250	600	36,4	
*	450	753 001 026	0	0	97.300	1070	250	675	40,9	
*	500	753 001 027	0	0	134.000	1200	280	750	45,5	
*	560	753 001 028	0	0	179.300	1290	280	840	50,9	
*	630	753 001 029	0	0	243.200	1400	280	945	57,3	
*	710	753 001 030	1	0	469.943	2200	570	1630		
*	800	753 001 031	1	0	577.131	2200	480	1720		

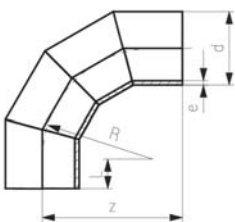


Bend 90° PE100 SDR17

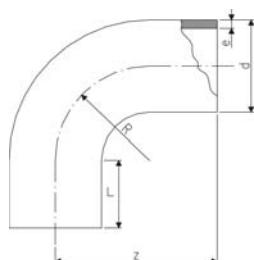
Model:

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

- Long spigot version



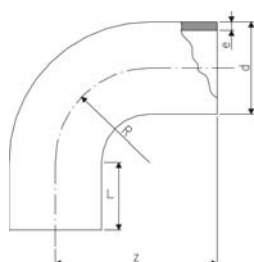
d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]	
710	753 002 001	1	0	202.419	1415	350	1065	42.1	
800	753 002 002	1	0	279.918	1550	350	1200	47.4	
900	753 002 003	1	0	386.595	1700	350	1350	53.3	
1000	753 002 004	1	0	534.660	1900	400	1500	59.3	



Bend 90° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- * made out of seamless pipe. This shall not be shortened.

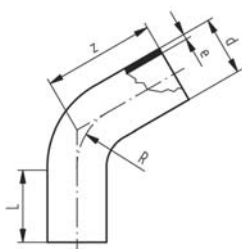
	d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]	
	32	753 001 008	25	0	0.050	78	46	32	2.9	
	40	753 001 009	15	0	0.090	91	49	40	3.7	
	50	753 001 010	40	0	0.160	107	55	50	4.6	
	63	753 001 011	50	0	0.280	130	63	63	5.8	
	75	753 001 012	1	16	0.464	152	70	75	6.8	
	90	753 001 013	18	0	0.530	168	79	90	8.2	
	110	753 001 014	1	12	1.282	193	82	110	10.0	
	125	753 001 015	15	0	1.290	216	87	125	11.4	
	140	753 001 016	5	0	2.230	232	92	140	12.7	
	160	753 001 017	1	4	3.424	258	98	160	14.6	
	180	753 001 018	6	0	5.000	290	105	180	16.4	
	200	753 001 019	4	0	6.925	317	112	200	18.2	
	225	753 001 020	2	0	9.770	350	120	225	20.5	
	250	753 001 021	2	0	9.230	375	130	250	22.7	
	280	753 001 022	1	0	15.487	430	150	280	25.4	
	315	753 001 023	1	0	23.950	470	150	315	28.6	
*	355	753 001 024	0	0	53.300	900	250	533	32.3	
*	400	753 001 025	0	0	71.900	980	250	600	36.4	
*	450	753 001 026	0	0	97.300	1070	250	675	40.9	
*	500	753 001 027	0	0	134.000	1200	280	750	45.5	
*	560	753 001 028	0	0	179.300	1290	280	840	50.9	
*	630	753 001 029	0	0	243.200	1400	280	945	57.3	
*	710	753 001 030	1	0	469.943	2200	570	1630	64.5	
*	800	753 001 031	1	0	577.131	2200	480	1720	72.6	



Bend 90° type L

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- * made out of seamless pipe. This shall not be shortened.

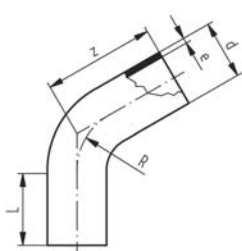
	d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]	
	90	753 000 813	1	9	0.520	168	79	90	5.4	
	110	753 000 814	1	12	0.465	193	82	110	6.6	
	125	753 000 815	15	0	1.300	216	87	125	7.4	
	140	753 000 816	1	5	1.789	232	92	140	8.3	
	160	753 000 817	4	0	2.410	258	98	160	9.5	
	180	753 000 818	6	0	4.000	290	105	180	10.7	
	200	753 000 819	4	0	6.500	317	112	200	11.9	
	225	753 000 820	2	0	6.414	350	120	225	13.4	
	250	753 000 821	2	0	9.940	375	130	250	14.8	
	280	753 000 822	1	0	13.795	430	150	280	16.6	
	315	753 000 823	1	0	24.000	470	150	315	18.7	
*	355	753 000 824	0	0	36.700	900	250	533	21.1	
*	400	753 000 825	1	0	49.700	980	250	600	23.7	
*	450	753 000 826	0	0	66.600	1070	250	675	26.7	
*	500	753 000 827	0	0	87.400	1200	280	750	29.7	
*	560	753 000 828	0	0	116.000	1290	280	840	33.2	
*	630	753 000 829	0	0	159.600	1400	280	945	37.4	
*	710	753 000 830	1	0	317.382	2200	570	1630	42.1	
*	800	753 000 831	1	0	389.859	2200	480	1720	47.4	



Bend 60° type L

- **PE 100 SDR 11 (ISO S5)**
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]	
32	753 071 008	80	0	0.070	128	80	48	2,9	
40	753 071 009	50	0	0.120	135	80	60	3,7	
50	753 071 010	40	0	0.240	158	100	75	4,6	
63	753 071 011	25	0	0.420	173	100	95	5,8	
75	753 071 012	16	0	0.600	182	100	113	6,8	
90	753 071 013	12	0	0.900	193	100	135	8,2	
110	753 071 014	12	0	1.780	270	150	165	10,0	
125	753 071 015	9	0	2.500	283	150	188	11,4	
140	753 071 016	6	0	2.700	296	150	210	12,7	
160	753 071 017	4	0	4.574	313	150	240	14,6	
180	753 071 018	4	0	4.900	330	150	270	16,4	
200	753 071 019	2	0	6.400	348	150	300	18,2	
225	753 071 020	0	0	8.600	370	150	338	20,5	
250	753 071 021	0	0	14.500	500	250	375	22,7	
280	753 071 022	0	0	19.100	530	250	420	25,4	
315	753 071 023	0	0	25.600	612	250	473	28,6	
355	753 071 024	0	0	41.700	690	300	533	32,3	
400	753 071 025	0	0	55.800	730	300	600	36,4	
450	753 071 026	0	0	76.000	780	300	675	40,9	
500	753 071 027	0	0	104.600	880	350	750	45,5	
560	753 071 028	0	0	139.500	930	350	840	50,9	
630	753 071 029	0	0	188.500	1000	350	945	57,3	



Bend 60° type L

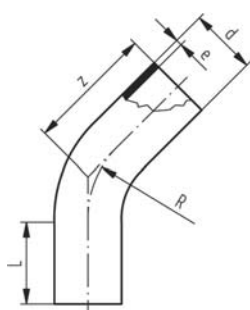
- **PE 100 SDR 17 (ISO S8)**
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]	
90	753 070 813	12	0	0.600	193	100	135	5,4	
110	753 070 814	12	0	1.280	270	150	165	6,6	
125	753 070 815	9	0	1.300	283	150	187	7,4	
140	753 070 816	6	0	1.800	296	150	210	8,3	
160	753 070 817	4	0	3.160	313	150	240	9,5	
180	753 070 818	4	0	3.190	330	150	270	10,7	
200	753 070 819	2	0	4.200	348	150	300	11,9	
225	753 070 820	0	0	5.600	370	150	337	13,4	
250	753 070 821	0	0	9.250	500	250	375	14,8	
280	753 070 822	0	0	15.000	530	250	420	16,6	
315	753 070 823	0	0	19.500	612	250	472	18,7	
355	753 070 824	0	0	30.100	690	300	532	21,1	
400	753 070 825	0	0	38.200	730	300	600	23,7	
450	753 070 826	0	0	53.700	780	300	675	26,7	
500	753 070 827	0	0	73.900	880	350	750	29,7	
560	753 070 828	0	0	98.200	930	350	840	33,2	
630	753 070 829	0	0	132.300	1000	350	945	37,4	



Bend 45° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.

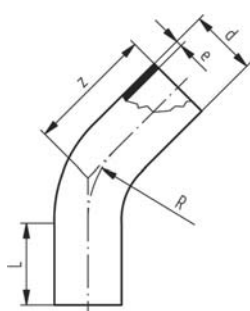


d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]	
32	753 051 008	80	0	0.077	120	80	48	2,9	
40	753 051 009	50	0	0.120	120	80	60	3,7	
50	753 051 010	40	0	0.240	149	100	75	4,6	
63	753 051 011	25	0	0.360	161	100	95	5,8	
75	753 051 012	16	0	0.560	168	100	113	6,8	
90	753 051 013	15	0	0.760	177	100	135	8,2	
110	753 051 014	8	0	1.700	243	150	165	10,0	
125	753 051 015	15	0	2.186	253	150	188	11,4	
140	753 051 016	9	0	2.800	262	150	210	12,7	
160	753 051 017	6	0	3.800	274	160	240	14,6	
180	753 051 018	1	0	5.140	287	150	270	16,4	
200	753 051 019	0	0	7.058	299	150	300	18,2	
225	753 051 020	1	0	7.400	315	150	338	20,5	
250	753 051 021	0	0	13.000	440	250	375	22,7	
280	753 051 022	0	0	22.000	460	250	420	25,4	
315	753 051 023	0	0	24.930	535	250	473	28,6	
355	753 051 024	0	0	39.500	620	300	533	32,3	
400	753 051 025	0	0	48.500	650	300	600	36,4	
450	753 051 026	0	0	69.800	680	300	675	40,9	
500	753 051 027	0	0	96.300	760	350	750	45,5	
560	753 051 028	0	0	129.800	800	350	840	50,9	
630	753 051 029	0	0	174.000	870	350	945	57,3	



Bend 45° type L

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.



d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]	
90	753 050 813	15	0	0.600	177	100	135	5,4	
110	753 050 814	8	0	1.208	243	150	165	6,6	
125	753 050 815	15	0	1.540	253	150	188	7,4	
140	753 050 816	9	0	1.720	262	150	210	8,3	
160	753 050 817	6	0	2.200	274	150	240	9,5	
180	753 050 818	4	0	3.000	287	150	270	10,7	
200	753 050 819	4	0	3.700	299	150	300	11,9	
225	753 050 820	1	0	5.000	315	150	338	13,4	
250	753 050 821	0	0	10.691	440	250	375	14,8	
280	753 050 822	0	0	15.000	460	250	420	16,6	
315	753 050 823	0	0	17.800	535	250	473	18,7	
355	753 050 824	0	0	25.600	620	300	533	21,1	
400	753 050 825	0	0	36.600	650	300	600	23,7	
450	753 050 826	0	0	45.300	680	300	675	26,7	
500	753 050 827	0	0	62.400	760	350	750	29,7	
560	753 050 828	0	0	81.900	800	350	840	33,2	
630	753 050 829	0	0	62.400	870	350	945	37,4	

Bend 30° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
32	753 061 008	80	0	0.077	113	80	48	2,9
40	753 061 009	80	0	0.120	116	80	60	3,7
50	753 061 010	80	0	0.200	140	100	75	4,6
63	753 061 011	40	0	0.400	150	100	95	5,8
75	753 061 012	25	0	0.520	155	100	113	6,8
90	753 061 013	1	0	0.760	160	100	135	8,2
110	753 061 014	1	0	1.689	219	150	165	10,0
125	753 061 015	6	0	2.096	225	150	188	11,4
140	753 061 016	5	0	2.200	231	150	210	12,7
160	753 061 017	8	0	3.650	239	150	240	14,6
180	753 061 018	6	0	4.782	247	150	270	16,4
200	753 061 019	4	0	5.777	255	150	300	18,2
225	753 061 020	2	0	6.300	266	150	338	20,5
250	753 061 021	0	0	13.100	385	250	375	22,7
280	753 061 022	0	0	16.300	400	250	420	25,4
315	753 061 023	0	0	21.850	460	250	473	28,6
355	753 061 024	0	0	34.900	540	300	533	32,3
400	753 061 025	0	0	45.900	560	300	600	36,4
450	753 061 026	0	0	60.200	580	300	675	40,9
500	753 061 027	0	0	83.300	630	350	750	45,5
560	753 061 028	0	0	108.600	680	350	840	50,9
630	753 061 029	0	0	148.300	730	350	945	57,3

Bend 30° type L

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
90	753 060 813	20	0	0.500	160	100	135	5,4
110	753 060 814	1	0	1.060	219	150	165	6,6
125	753 060 815	6	0	1.100	225	150	188	7,4
140	753 060 816	5	0	1.720	231	150	210	8,3
160	753 060 817	8	0	2.565	239	150	240	9,5
180	753 060 818	6	0	3.389	247	150	270	10,7
200	753 060 819	4	0	4.213	255	150	300	11,9
225	753 060 820	1	0	7.540	266	150	338	13,4
250	753 060 821	0	0	11.600	385	250	375	14,8
280	753 060 822	0	0	12.800	400	250	420	16,6
315	753 060 823	1	1	25.000	460	250	473	18,7
355	753 060 824	0	0	22.700	540	300	533	21,1
400	753 060 825	0	0	29.800	560	300	600	23,7
450	753 060 826	0	0	39.100	580	300	675	26,7
500	753 060 827	0	0	54.000	650	350	750	29,7
560	753 060 828	0	0	70.300	680	350	840	33,2
630	753 060 829	0	0	95.800	730	350	945	37,4

Bend 22° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.

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

Bend 22° type L

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
90	753 080 813	20	0	0.500	160	100	135	5
110	753 080 814	9	0	1.060	219	150	165	7
125	753 080 815	6	0	1.100	225	150	188	7
140	753 080 816	5	0	1.720	231	150	210	8
160	753 080 817	8	0	1.900	239	150	240	10
180	753 080 818	7	0	3.318	247	150	270	11
200	753 080 819	4	0	3.200	255	150	300	12
225	753 080 820	2	0	5.431	266	150	338	13
250	753 080 821	0	0	9.904	385	250	375	15
280	753 080 822	0	0	12.800	400	250	420	17
315	753 080 823	0	0	14.144	460	250	473	19
355	753 080 824	0	0	22.700	540	300	533	21
400	753 080 825	0	0	29.800	560	300	600	24
450	753 080 826	0	0	39.100	580	300	675	27
500	753 080 827	0	0	54.000	650	350	750	30
560	753 080 828	0	0	70.300	680	350	840	33
630	753 080 829	0	0	95.800	730	350	945	37

Bend 11° type L

- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
32	753 091 008	80	0	0.077	113	80	48	3
40	753 091 009	80	0	0.120	116	80	60	4
50	753 091 010	60	0	0.200	140	100	75	5
63	753 091 011	40	0	0.400	150	100	95	6
75	753 091 012	25	0	0.520	155	100	113	7
90	753 091 013	20	0	0.760	160	100	135	8
110	753 091 014	9	0	1.500	219	150	165	10
125	753 091 015	6	0	2.000	225	150	188	11
140	753 091 016	5	0	2.200	231	150	210	13
160	753 091 017	8	0	3.300	239	150	240	15
180	753 091 018	7	0	3.700	247	150	270	16
200	753 091 019	4	0	4.750	255	150	300	18
225	753 091 020	2	0	7.773	266	150	338	21
250	753 091 021	0	0	13.100	385	250	375	23
280	753 091 022	0	0	16.300	400	250	420	25
315	753 091 023	0	0	21.845	460	250	473	29
355	753 091 024	0	0	34.900	540	300	533	32
400	753 091 025	0	0	45.900	560	300	600	36
450	753 091 026	0	0	60.200	580	300	675	41
500	753 091 027	0	0	83.300	650	350	750	46
560	753 091 028	0	0	108.600	680	350	840	51
630	753 091 029	0	0	148.300	730	350	945	57

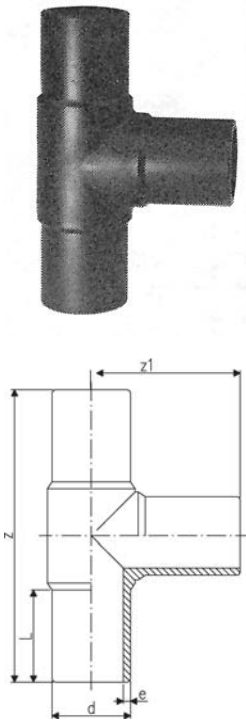
Bend 11° type L

- PE 100 SDR 17 (ISO S8)
- See general information for maximum allowable operating pressure
- Made out of seamless pipe. This shall not be shortened.

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	R [mm]	e [mm]
90	753 090 813	20	0	0.500	160	100	135	5
110	753 090 814	9	0	1.060	219	150	165	7
125	753 090 815	6	0	1.100	225	150	188	7
140	753 090 816	5	0	1.720	231	150	210	8
160	753 090 817	8	0	2.653	239	150	240	10
180	753 090 818	7	0	2.500	247	150	270	11
200	753 090 819	4	0	4.308	255	150	300	12
225	753 090 820	2	0	7.540	266	150	338	13
250	753 090 821	0	0	11.600	385	250	375	15
280	753 090 822	0	0	12.800	400	250	420	17
315	753 090 823	0	0	25.000	460	250	473	19
355	753 090 824	0	0	22.700	540	300	533	21
400	753 090 825	0	0	29.800	560	300	600	24
450	753 090 826	0	0	39.100	580	300	675	27
500	753 090 827	0	0	54.000	650	350	750	30
560	753 090 828	0	0	70.300	680	350	840	33
630	753 090 829	0	0	95.800	730	350	945	37

Tee 90° type L

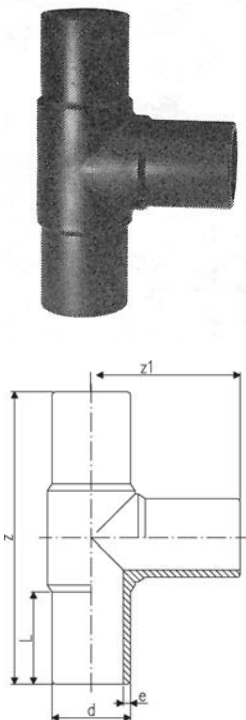
- PE 100 SDR 11 (ISO S5)
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers
- * With welded pipes
- * No pressure reduction factor
- * Segment welded and reinforced



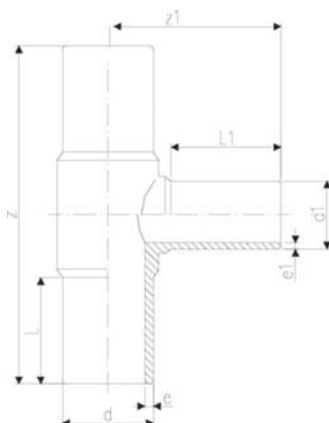
	d [mm]	Code	SP	GP	Weight [kg]	z [mm]	z1 [mm]	L [mm]	e [mm]
	20	701 485 240	1	30	0.038	150	75	52	3,0
	25	701 485 241	1	25	0.054	160	80	52	3,0
	32	701 485 242	1	20	0.073	170	85	54	3,0
	40	701 485 243	1	80	0.129	190	95	57	3,7
	50	701 485 244	1	20	0.217	210	105	63	4,6
	63	701 485 245	1	25	0.420	230	115	65	5,8
	75	701 485 246	1	16	0.604	264	132	72	6,8
	90	701 485 247	1	7	1.031	300	150	81	8,2
	110	701 485 248	1	7	1.616	330	165	86	10,0
	125	701 485 249	1	4	2.386	366	183	92	11,4
	140	701 485 250	1	4	3.200	396	196	92	12,7
	160	701 485 251	1	4	4.323	420	210	102	14,6
	180	701 485 252	1	3	6.030	460	230	107	16,4
	200	701 485 253	1	2	8.500	500	250	117	18,2
	225	701 485 254	1	1	11.500	540	270	122	20,5
	250	701 485 255	1	2	14.708	575	288	130	22,7
	280	753 200 902	1	0	18.670	615	308	139	25,4
	315	753 200 903	1	0	26.150	695	346	150	28,6
	355	753 200 904	0	0	39.800	818	410	165	32,3
	400	753 200 905	0	0	42.495	910	455	180	36,4
	450	753 200 906	0	0	77.300	970	485	195	40,9
	500	753 200 907	0	0	101.000	1060	530	215	45,5
*	560	753 200 908	0	0	153.300	1510	755	230	50,9
*	630	753 200 909	0	0	205.500	1630	815	250	57,3

Tee 90° type L

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



	d [mm]	Code	SP	GP	Weight [kg]	z [mm]	z1 [mm]	L [mm]	e [mm]
	90	701 485 387	1	7	0.780	300	150	80	5,4
	110	701 485 388	1	7	1.440	330	165	86	6,6
	125	701 485 389	1	4	2.050	366	185	92	7,4
	140	701 485 390	1	4	2.450	396	196	92	8,3
	160	701 485 391	1	4	3.208	428	214	104	9,5
	180	701 485 392	1	3	5.450	460	230	105	10,7
	200	701 485 393	2	0	5.910	500	250	115	11,9
	225	701 485 394	1	1	10.120	540	270	122	13,4
	250	753 200 821	1	2	10.000	575	288	130	14,8
	280	753 200 802	1	2	13.350	615	308	139	16,6
	315	753 200 803	1	0	17.985	695	346	150	18,7
	355	753 200 804	0	0	25.850	818	410	165	21,1
	400	753 200 805	0	0	35.015	910	455	180	23,7
	450	753 200 806	0	0	56.000	970	485	195	26,7
	500	753 200 807	0	0	71.000	1060	530	215	29,7
*	560	753 200 808	0	0	99.200	1510	755	230	33,2
*	630	753 200 809	0	0	132.700	1630	815	250	37,4

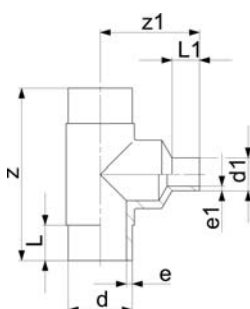


Tee 90°, reduced L moulded

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

d1 [mm]	d [mm]	Code	SP	GP	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
50	63	701 585 040	1	10	0.300	215	103	63	56	5,8	4,6
32	75	701 585 041	1	10	0.490	256	108	70	46	6,9	3,0
50	75	701 585 042	1	10	0.538	253	108	70	56	6,9	4,6
63	75	701 585 043	1	10	0.556	255	117	70	63	6,9	5,8
50	90	753 201 027	1	15	0.794	280	117	79	55	8,2	4,6
63	90	701 585 045	15	0	0.775	269	136	79	64	8,2	5,8
75	90	701 585 046	1	3	0.799	272	138	73	70	8,2	6,9
63	110	701 585 047	10	0	1.267	309	156	84	65	10,0	5,8
75	110	701 585 048	1	2	1.235	309	151	82	70	10,0	6,9
90	110	701 585 049	10	0	1.275	321	162	85	79	10,0	8,2
90	125	701 585 050	1	2	1.722	335	170	90	83	11,4	8,2
110	125	701 485 340	1	4	2.389	341	170	88	82	11,4	10,0
63	160	701 485 516	8	2	2.680	340	176	98	65	14,6	5,8
75	160	701 585 052	1	2	2.717	340	180	98	74	14,6	6,9
90	160	701 485 517	8	0	3.775	410	180	98	79	14,6	8,2
110	160	701 485 342	1	2	4.060	420	265	98	82	##	10,0
90	180	701 585 053	1	1	4.406	420	202	136	98	16,4	8,2
110	180	701 585 054	1	1	4.379	0	0	0	0	16,4	10,0
160	180	701 585 055	1	1	4.379	411	205	102	94	16,4	14,6
63	200	753 201 073	1	1	7.300	500	190	122	63	18,2	5,8
90	200	701 585 057	4	0	9.730	503	215	120	81	18,2	8,2
110	200	701 585 058	4	0	9.730	503	218	120	84	18,2	10,0
160	200	701 585 059	4	0	9.730	503	236	120	101	18,2	14,6
75	225	701 585 060	1	1	6.500	441	227	119	75	20,5	6,9
90	225	701 485 519	3	0	9.815	441	225	119	79	20,5	8,2
110	225	701 485 520	3	0	9.780	441	237	118	83	20,5	10,0
160	225	701 485 349	1	1	10.220	540	320	120	106	20,5	14,6
180	225	701 585 061	1	1	9.375	543	277	132	132	20,5	16,4
110	250	701 585 062	2	0	11.878	586	245	132	85	22,7	10,0
160	250	701 585 063	2	0	9.730	586	264	132	101	22,7	14,6
110	315	753 201 051	1	1	15.300	695	277	150	82	28,6	10,0
160	315	753 201 052	1	1	22.998	695	296	150	102	28,6	14,6
225	315	753 201 053	1	1	20.011	650	335	170	145	28,6	20,5
250	315	753 201 054	1	1	24.243	695	325	150	130	28,6	22,7

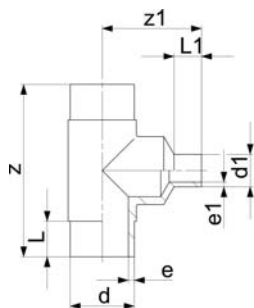
Tee 90°, reduced L with welded reducer



- 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	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
25	20	753 201 002	1	20	0.053	160		52	52	3,0	3,0
32	20	753 201 003	1	20	0.094	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	190	120	57	52	3,7	3,0
40	25	701 485 324	1	30	0.140	190	120	57	52	3,7	3,0
40	32	753 201 070	1	15	0.160	190	120	57	52	3,7	3,0
50	20	701 485 325	1	20	0.210	210	140	63	52	4,6	3,0
50	25	701 485 326	1	20	0.220	210	130	63	52	4,6	3,0
50	32	701 485 327	1	20	0.230	210	130	63	53	4,6	3,0
50	40	753 201 081	1	7	0.224	210	130	63	57	4,6	3,7
63	32	701 485 328	1	10	0.378	230	145	65	53	5,8	3,0
63	40	701 485 329	1	10	0.700	230	145	65	57	5,8	3,7
75	40	753 201 084	1	4	0.603	264	180	72	57	6,8	3,7
125	63	753 201 085	1	6	2.359	366	225	92	61	11,4	5,8
125	75	701 485 338	1	4	2.453	366	225	92	72	11,4	6,9
140	75	753 201 087	1	4	3.038	396	230	92	70	12,7	6,8

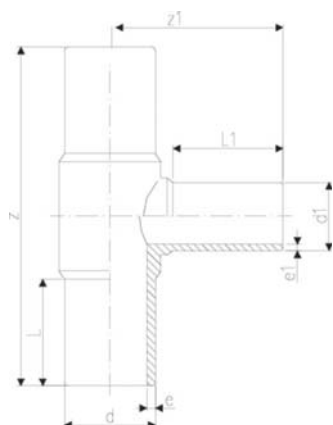
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d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
140	90	753 201 089	1	4	3.092	396	235	92	79	12,7	8,2	
140	110	753 201 090	1	4	3.208	396	240	92	82	12,7	10,0	
140	125	753 201 091	1	4	4.170	396	240	92	90	12,7	11,4	
160	125	701 485 343	1	2	4.465	420	265	102	92	14,6	11,4	
160	140	753 201 093	1	4	5.895	420	270	102	96	14,6	12,7	
180	125	701 485 344	1	1	6.480	460	285	107	92	16,4	11,4	
180	140	753 201 095	1	2	6.317	460	295	107	110	16,4	12,7	
200	125	701 485 346	1	1	8.150	500	295	117	92	18,2	11,4	
200	140	753 201 097	1	1	10.570	500	310	117	110	18,2	12,7	
200	180	753 201 098	1	1	9.031	500	310	117	110	18,2	16,4	
225	125	701 485 348	1	1	10.900	540	320	122	92	20,5	11,4	
225	140	753 201 100	1	1	14.574	540	335	122	110	20,5	12,7	
225	200	753 201 101	1	1	14.925	540	340	122	117	20,5	18,2	
250	180	753 201 102	1	1	14.327	576	350	130	105	22,7	16,4	
250	200	753 201 103	1	1	19.220	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	0	21.755	616	420	139	120	25,4	20,5	
280	250	753 201 107	1	1	21.055	616	420	139	130	25,4	22,7	
315	200	753 201 108	1	1	33.672	690	470	150	134	28,6	18,2	
315	280	753 201 109	1	1	34.950	690	480	150	139	28,6	25,4	
355	250	753 201 110	1	0	48.900	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	0	52.915	910	530	180	139	36,4	25,4	
400	315	753 201 114	0	1	53.625	910	580	180	150	36,4	28,6	
400	355	753 201 115	1	1	54.075	910	675	180	165	36,4	32,3	

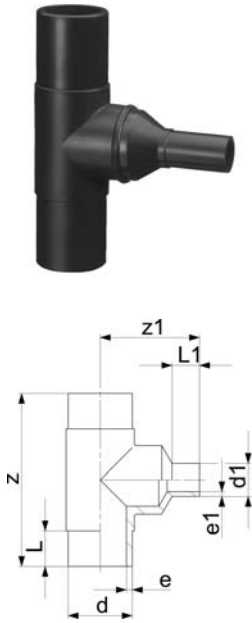
Tee 90°, reduced L moulded

- 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	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
90	50	753 201 827	15	1	0.630	275	117	79	55	5.4	3.0	
90	63	753 200 829	15	0	0.560	275	123	79	63	5.4	3.8	
90	75	701 585 542	1	3	0.593	274	137	74	70	5.4	4.5	
110	63	753 200 828	10	0	1.010	318	147	82	63	6.6	3.8	
110	75	701 585 544	1	2	0.882	310	155	82	70	6.6	4.5	
110	90	753 200 832	10	0	0.941	318	158	82	79	6.6	5.4	
125	110	701 585 546	1	1	1.385	335	170	88	82	7.4	6.6	
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	0	1.972	410	188	98	79	9.5	5.4	
160	110	753 200 837	1	8	2.716	410	195	98	82	9.5	6.6	
180	90	701 585 551	1	1	3.218	394	200	134	97	10.7	5.4	
180	160	701 585 552	1	1	3.539	412	207	102	92	10.7	10.7	
200	63	753 201 873	1	1	6.800	500	190	122	63	11.9	3.8	
200	90	753 201 874	1	1	6.900	500	207	122	79	11.9	5.4	
200	110	753 201 875	1	1	5.097	500	215	122	82	11.9	6.6	
200	160	753 201 876	1	1	7.400	500	234	122	98	11.9	9.5	
225	75	753 200 839	0	0	7.128	555	277	120	70	13.4	4.5	
225	90	753 200 840	3	0	4.732	555	226	127	80	13.4	5.4	
225	110	753 200 841	1	0	4.700	555	235	127	82	13.4	6.6	
225	160	753 200 842	3	3	5.922	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	
250	110	753 201 878	1	1	9.400	575	242	130	82	14.8	6.6	
250	160	753 201 879	1	1	9.800	575	261	130	98	14.8	9.5	
315	110	753 200 851	1	1	15.621	695	277	150	82	18.7	6.6	
315	160	753 200 852	1	0	12.200	695	296	150	102	18.7	9.5	
315	225	753 200 853	1	0	14.869	650	335	170	145	18.7	13.4	
315	250	753 200 854	1	0	15.500	695	325	150	130	18.7	14.8	

Tee 90°, reduced L with welded reducer



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

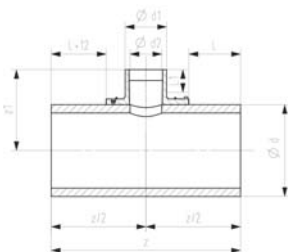
d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	z [mm]	z1 [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
125	63	753 200 801	1	4	1.752	366	215	92	61	7.4	3.8	
125	75	701 485 435	1	8	1.843	366	235	92	72	7.4	4.5	
125	90	701 485 436	1	6	1.770	366	235	92	80	7.4	5.4	
140	75	753 200 812	1	4	2.820	396	240	92	70	8.3	4.5	
140	90	753 200 822	1	4	2.211	396	240	92	78	8.3	5.4	
140	110	753 200 823	1	4	2.266	396	235	92	82	8.3	6.6	
140	125	753 200 824	1	4	2.317	396	240	92	87	8.3	7.4	
160	125	701 485 439	1	2	4.110	428	265	104	90	9.5	7.4	
160	140	753 200 826	1	4	3.416	428	280	104	96	9.5	8.3	
180	110	753 200 827	1	1	4.410	460	285	105	92	10.7	6.6	
180	125	701 485 440	1	1	5.500	460	285	105	90	10.7	10.7	
180	140	753 200 846	1	1	4.483	460	305	105	110	10.7	8.3	
200	125	701 485 447	1	1	5.872	500	295	117	92	11.9	11.9	
200	140	753 200 848	1	0	7.200	500	315	115	110	11.9	8.3	
200	180	753 200 849	1	1	6.900	500	315	115	110	11.9	10.7	
225	125	701 485 443	1	1	10.160	270	320	122	92	13.4	13.4	
225	140	753 200 855	1	1	8.780	540	345	122	110	13.4	8.3	
225	200	753 200 856	1	1	9.064	540	335	122	115	13.4	11.9	
250	180	753 200 857	1	1	15.000	576	340	130	105	14.8	10.7	
250	200	753 200 858	1	1	15.440	576	350	130	112	14.8	11.9	
250	225	753 200 859	1	1	15.620	576	370	130	120	14.8	13.4	
280	200	753 200 860	1	0	19.200	616	400	139	112	16.6	11.9	
280	225	753 200 861	1	1	19.500	616	400	139	120	16.6	13.4	
280	250	753 200 862	1	1	20.120	616	400	139	130	16.6	14.8	
315	200	753 200 863	0	0	18.700	690	480	150	134	18.7	11.9	
315	280	753 200 864	0	0	26.940	690	480	150	139	18.7	16.6	
355	250	753 200 865	0	0	35.770	818	480	165	130	21.1	14.8	
355	280	753 200 866	0	0	36.330	818	480	165	139	21.1	16.6	
355	315	753 200 867	0	0	37.740	818	490	165	150	21.1	18.7	
400	280	753 200 868	0	0	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	0	0	50.020	910	675	180	165	23.7	21.1	

Tee 45° equal type L



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

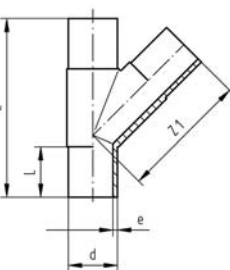
d [mm]	Code	SP	GP	Weight [kg]	z [mm]	z1 [mm]	L [mm]	e [mm]	
50	753 251 010	1	30	0.219	218	139	56	4.6	
63	753 251 011	13	0	0.463	255	158	63	5.8	
75	753 251 012	1	0	0.800	301	190	70	6.8	
90	753 251 013	1	10	1.373	368	234	79	8.2	
110	753 251 014	1	6	1.800	395	260	82	10.0	



Tee 90° reduced with welded saddle PE100 SDR11

- PE 100 SDR 11 (ISO S5)
- 10 bar Gas / 16 bar Water
- Long spigot version

d [mm]	d1 [mm]	Code	SP	Weight [kg]	GP	z [mm]	z1 [mm]	L [mm]	L1 [mm]	d2 [mm]
315	225	753 201 404	1	22.570	0	702	318	168	127	172
355	90	753 201 356	1	27.729	1	818	410	279	81	70
355	110	753 201 357	1	28.204	1	818	410	279	86	90
355	125	753 201 358	1	28.820	1	818	410	279	92	90
355	160	753 201 412	1	26.450	0	732	315	205	110	123
355	225	753 201 414	1	28.500	0	732	338	183	127	172
400	90	753 201 359	1	38.213	1	910	455	325	81	70
400	110	753 201 360	1	38.763	1	910	455	325	86	90
400	125	753 201 361	1	39.393	1	910	455	325	92	90
400	160	753 201 422	1	34.150	0	762	337	220	110	123
400	225	753 201 424	1	36.170	0	762	360	198	127	172
450	90	753 201 362	1	50.936	1	970	485	355	81	70
450	110	753 201 363	1	51.516	1	970	485	355	86	90
450	125	753 201 364	1	52.173	1	970	485	355	92	90
450	160	753 201 432	1	44.420	0	792	362	235	110	123
450	225	753 201 434	1	46.440	0	792	385	213	127	172
500	90	753 201 365	1	68.151	1	1060	530	400	81	70
500	110	753 201 366	1	68.774	1	1060	530	400	86	90
500	125	753 201 367	1	69.472	1	1060	530	400	92	90
500	160	753 201 442	1	66.510	0	980	387	329	110	123
500	225	753 201 444	1	68.450	0	980	410	307	127	172
560	90	753 201 368	1	120.536	1	1510	755	625	81	70
560	110	753 201 369	1	121.384	1	1510	755	625	86	90
560	125	753 201 370	1	122.278	1	1510	755	625	92	90
560	160	753 201 452	1	85.020	0	1010	417	344	110	123
560	225	753 201 454	1	86.970	0	1010	440	322	127	172
630	90	753 201 371	1	163.834	1	1630	815	685	81	70
630	110	753 201 372	1	164.742	1	1630	815	685	86	90
630	125	753 201 373	1	165.688	1	1630	815	685	92	90
630	160	753 201 462	1	111.120	0	1050	452	364	110	123
630	225	753 201 464	1	113.250	0	1050	475	342	127	172

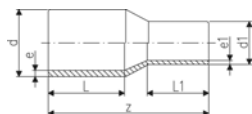


Tee 45° equal type L

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

d [mm]	Code	SP	GP	Weight [kg]	z [mm]	z1 [mm]	L [mm]	e [mm]
90	753 251 063	10	0	0.800	368	234	79	5,4
110	753 251 064	6	0	1.400	395	260	82	6,6

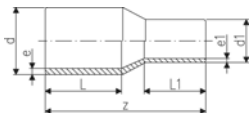
Reducer type L



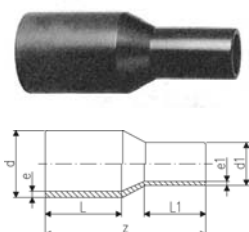
- **PE 100 SDR 11 (ISO S5)**
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]
25	20	701 485 280	1	40	0.022	115	52	52	3,0	3,0
32	20	701 485 281	1	100	0.027	120	54	52	3,0	3,0
32	25	701 485 282	1	45	0.024	120	54	52	3,7	3,0
40	20	701 485 283	1	40	0.040	130	57	52	3,7	3,0
40	25	701 485 284	1	50	0.043	130	57	52	3,7	3,0
40	32	701 485 285	1	40	0.046	130	57	53	3,7	3,0
50	20	701 485 286	1	35	0.067	150	63	52	4,6	3,0
50	25	701 485 287	1	45	0.068	140	63	53	4,6	3,0
50	32	701 485 288	1	40	0.071	140	63	53	4,6	3,0
50	40	701 485 289	1	25	0.083	140	63	57	4,6	3,7
63	32	701 485 290	1	50	0.109	150	65	53	5,8	3,0
63	40	701 485 291	1	50	0.130	150	65	57	5,8	3,7
63	50	701 485 292	1	50	0.130	150	65	63	5,8	4,6
75	40	701 485 293	1	60	0.178	170	72	57	6,8	3,7
75	50	701 485 294	1	50	0.191	170	72	63	6,8	4,6
75	63	701 485 295	1	50	0.216	170	72	65	6,8	5,8
90	50	701 485 296	1	18	0.291	190	81	63	8,2	4,6
90	63	701 485 297	1	18	0.317	190	81	65	8,2	5,8
90	75	701 485 298	1	18	0.355	190	81	70	8,2	6,8
110	63	701 485 299	1	24	0.469	205	86	65	10,0	5,8
110	75	701 485 300	1	10	0.497	205	86	70	10,0	6,8
110	90	701 485 301	1	9	0.557	205	86	81	10,0	8,2
125	63	701 585 100	1	22	0.579	200	87	63	11,4	5,8
125	75	701 485 302	1	8	0.668	215	92	72	11,4	6,8
125	90	701 485 303	1	15	0.673	215	92	81	11,4	8,2
125	110	701 485 304	1	15	0.786	215	92	86	11,4	10,0
140	75	753 901 086	1	14	0.910	230	110	70	12,7	6,8
140	90	753 901 087	1	10	0.954	230	110	79	12,7	8,2
140	110	701 585 103	1	12	0.820	230	110	82	12,7	10,0
140	125	701 585 125	1	12	0.988	235	110	90	12,7	11,4
160	90	701 585 104	1	10	1.164	248	120	79	14,6	8,2
160	110	701 485 305	1	5	1.298	245	102	86	14,6	10,0
160	125	701 485 306	1	5	1.403	245	102	92	14,6	11,4
160	140	753 901 032	1	10	1.522	260	120	110	14,6	12,7
180	90	753 901 073	1	8	1.507	245	105	79	16,4	8,2
180	110	753 901 074	1	8	1.833	270	105	82	16,4	10,0
180	125	701 485 307	1	6	1.720	255	107	92	16,4	11,4
180	140	753 901 075	1	8	1.976	270	120	110	16,4	12,7
180	160	701 485 308	1	6	1.980	255	107	102	16,4	14,6
200	140	753 901 066	1	6	2.326	275	120	110	18,2	12,7
200	160	701 485 309	1	6	2.370	265	117	102	18,2	14,6
200	180	701 485 310	1	4	2.681	265	117	107	18,2	16,4
225	140	753 901 067	1	4	2.900	295	130	110	20,5	12,7
225	160	701 485 311	1	4	3.118	280	122	102	20,5	14,6
225	180	701 485 312	1	4	3.268	280	122	107	20,5	16,4
225	200	701 485 313	1	3	3.530	280	122	117	20,5	18,2
250	160	701 485 278	7	0	2.385	290	130	100	22,7	14,6
250	180	753 901 068	1	6	4.299	295	130	105	22,7	16,4
250	200	701 485 279	6	0	2.385	302	130	112	22,7	18,2
250	225	753 901 002	6	0	2.385	332	130	120	22,7	20,5
280	200	753 901 098	1	6	6.850	333	140	112	25,4	18,2
280	225	753 901 099	1	5	6.112	335	140	120	25,4	20,5
280	250	753 901 003	5	0	2.385	340	140	130	25,4	22,7
315	200	701 585 115	1	2	2.385	380	180	134	28,6	18,2
315	225	753 901 097	4	0	7.790	365	150	120	28,6	20,5
315	250	753 901 005	4	0	8.360	365	150	130	28,6	22,7
315	280	753 901 012	1	6	8.800	365	150	139	28,6	25,4
355	250	753 901 013	0	0	9.100	390	165	130	32,3	22,7
355	280	753 901 014	1	6	9.500	390	165	139	32,3	25,4
355	315	753 901 015	1	6	9.900	390	165	150	32,3	28,6
400	280	753 901 016	1	6	10.420	415	180	139	36,4	25,4

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d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	z	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
400	315	753 901 017	1	6	11.130	415	180	150	36,4	28,6	
400	355	753 901 018	1	6	11.600	420	180	165	36,4	32,3	
450	280	753 901 019	1	6	16.200	389	195	139	40,9	25,4	
450	315	753 901 020	1	6	16.700	390	195	150	40,9	28,6	
450	355	753 901 022	1	6	17.500	393	195	164	40,9	32,3	
450	400	753 901 024	1	3	18.500	395	195	179	40,9	36,4	
500	315	753 901 025	1	3	21.900	422	212	150	45,5	28,6	
500	355	753 901 026	1	3	22.600	424	212	164	45,5	32,3	
500	400	753 901 027	1	3	23.600	426	212	179	45,5	36,4	
500	450	753 901 029	1	3	25.100	428	212	195	45,5	40,9	
560	355	753 901 030	1	3	30.100	459	230	164	50,9	32,3	
560	400	753 901 039	1	3	31.000	461	230	179	50,9	36,4	
560	450	753 901 040	1	3	32.400	463	230	195	50,9	40,9	
560	500	753 901 043	1	3	34.100	466	230	212	50,9	45,5	
630	400	753 901 044	1	3	41.900	502	250	179	57,3	36,4	
630	450	753 901 045	1	3	43.100	503	250	195	57,3	40,9	
630	500	753 901 049	1	3	44.700	506	250	212	57,3	45,5	
630	560	753 901 050	1	3	46.800	506	250	230	57,3	50,9	

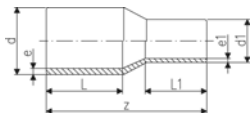


Reducer type L

- 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	Weight [kg]	z	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
90	63	753 900 872	1	20	0.224	182	79	70	5,4	3,8	
90	75	753 900 870	1	20	0.234	185	79	70	5,4	4,5	
90	63	753 900 877	30	0	0.326	185	82	63	6,6	3,8	
110	90	701 485 411	1	8	0.650	205	85	80	6,6	5,4	
125	63	753 900 882	1	10	0.610	200	87	63	7,4	3,8	
125	90	701 485 413	1	8	0.504	215	90	80	7,4	5,4	
125	110	701 485 414	1	8	0.574	215	90	85	7,4	6,6	
140	75	753 900 886	1	14	0.560	230	112	70	8,3	4,5	
140	90	753 900 887	1	14	0.642	230	112	79	8,3	5,4	
140	110	753 900 884	1	12	0.715	230	112	82	8,3	6,6	
140	125	701 585 629			0.754	235	115	87	8,3	7,4	
160	90	753 900 888	10	0	0.752	248	120	85	9,5	5,4	
160	110	701 485 415	1	4	0.898	245	100	85	9,5	6,6	
160	125	701 485 416	1	8	0.956	245	100	90	9,5	7,4	
160	140	753 900 831	1	10	0.995	260	120	110	9,5	8,3	
180	90	753 900 873	1	8	1.010	237	105	79	10,7	5,4	
180	110	753 900 874	10	0	1.600	270	120	92	10,7	6,6	
180	125	753 900 891	1	8	1.165	255	105	90	10,7	7,4	
180	140	753 900 875	1	8	1.720	270	120	110	10,7	8,3	
180	160	701 485 418	1	4	1.401	255	105	100	10,7	9,5	
200	140	753 900 866	1	6	1.800	275	120	110	11,9	8,3	
200	160	701 485 419	1	4	1.661	265	115	100	11,9	9,5	
200	180	701 485 420	1	4	2.580	265	115	105	11,9	10,7	
225	140	753 900 867	1	4	2.021	280	120	100	13,4	8,3	
225	160	701 485 421	1	4	2.025	280	120	100	13,4	9,5	
225	180	701 485 422	1	4	2.199	280	120	105	13,4	10,7	
225	200	701 485 423	1	3	3.750	280	120	115	13,4	11,9	
250	160	753 900 800	7	0	2.850	290	130	100	14,8	9,5	
250	180	753 900 868	1	6	3.100	295	130	105	14,8	10,7	
250	200	753 900 801	6	0	3.210	302	130	112	14,8	11,9	
250	225	753 900 802	1	6	2.385	332	162	120	14,8	13,4	
280	200	753 900 898	1	6	3.800	333	140	112	16,6	11,9	
280	225	753 900 899	1	5	4.062	335	140	120	16,6	13,4	
280	250	753 900 803	5	0	4.352	340	140	130	16,6	14,8	
315	200	701 585 618	1	2	6.200	380	180	134	18,7	11,9	
315	225	753 900 807	1	2	6.200	365	150	120	18,7	13,4	
315	250	753 900 805	4	0	6.420	365	150	130	18,7	14,8	
315	280	753 900 806	4	0	5.940	365	150	140	18,7	16,6	

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d [mm]	d1 [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	L1 [mm]	e [mm]	e1 [mm]	
355	250	753 900 808	1	6	7.082	390	165	130	21,1	14,8	
355	280	753 900 809	1	6	6.728	390	165	140	21,1	16,6	
355	315	753 900 810	1	6	7.240	390	165	150	21,1	18,7	
400	280	753 900 811	1	0	7.930	415	180	140	23,7	16,6	
400	315	753 900 812	1	0	9.949	415	180	150	23,7	18,7	
400	355	753 900 813	1	8	9.620	420	180	165	23,7	21,1	
450	280	753 900 814	1	3	11.500	389	195	140	26,7	16,6	
450	315	753 900 815	1	4	11.805	390	195	150	26,7	18,7	
450	355	753 900 816	1	3	11.900	393	195	164	26,7	21,1	
450	400	753 900 817	3	0	12.964	395	195	179	26,7	23,7	
500	315	753 900 818	1	3	15.500	422	212	150	29,7	18,7	
500	355	753 900 819	1	3	15.700	424	212	164	29,7	21,1	
500	400	753 900 820	1	3	16.200	426	212	179	29,7	23,7	
500	450	753 900 821	1	3	17.000	428	212	195	29,7	26,7	
560	355	753 900 822	1	3	21.400	459	230	164	33,2	21,1	
560	400	753 900 823	1	3	21.700	461	230	179	33,2	23,7	
560	450	753 900 824	1	3	22.300	463	230	195	33,2	26,7	
560	500	753 900 825	1	3	23.200	466	230	212	33,2	29,7	
630	400	753 900 826	1	3	29.700	502	250	179	37,4	23,7	
630	450	753 900 827	1	3	30.100	503	250	195	37,4	26,7	
630	500	753 900 828	1	3	30.800	506	250	212	37,4	29,7	
630	560	753 900 829	1	3	31.900	506	250	230	37,4	33,3	

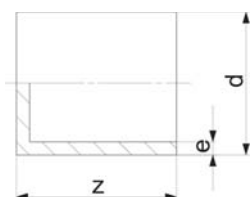


End cap type L

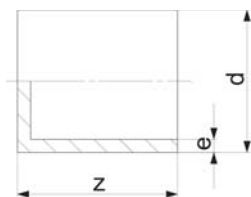
- **PE 100 SDR 11 (ISO S5)**
- See general information for maximum allowable operating pressure
- Usable with all types of electrofusion couplers

Note:

* Fabricated fitting made from pipe



d [mm]	Code	SP	GP	Weight [kg]	e [mm]	L [mm]	z [mm]	
20	701 485 260	1	50	0.009	3,0		52	
25	701 485 261	1	50	0.013	3,0		52	
32	701 485 262	1	50	0.017	3,0		54	
40	701 485 263	1	100	0.031	3,7		57	
50	701 485 264	1	30	0.050	4,6		63	
63	701 485 265	1	50	0.086	5,8		65	
75	701 485 266	1	40	0.145	6,8		80	
90	701 485 267	1	50	0.238	8,2		90	
110	701 485 268	1	30	0.376	10,0		98	
125	701 485 269	1	12	0.523	11,4		105	
140	753 961 016	1	12	0.727	12,7	92	136	
160	701 485 271	1	8	1.035	14,6		120	
180	701 485 272	1	10	1.369	16,4		128	
200	701 485 273	1	5	1.839	18,2		138	
225	701 485 274	1	5	2.532	20,5		148	
250	701 485 275	4	0	3.927	22,7		205	
280	753 960 922	2	0	8.045	25,4	139	235	
315	753 960 923	1	2	6.861	28,6	150	255	
355	753 960 924	2	0	9.780	32,3	165	280	
400	753 960 925	2	0	13.370	36,4	180	310	
450	753 960 926	0	0	20.800	40,9	195	275	
500	753 960 927	0	0	28.400	45,5	212	297	
560	753 960 928	0	0	39.100	50,9	230	325	
* 630	753 960 929	0	0	59.700	57,3	250	355	



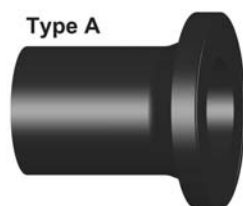
End cap type L

- 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

	d [mm]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	e [mm]
	50	753 960 810	1	40	0.036	70	55	3,0
	63	753 960 811	15	0	0.058	82	63	3,8
	75	753 960 812	40	0	0.105	92	70	4,5
	90	701 485 397	1	50	0.220	90		5,2
	110	701 485 398	1	30	0.350	98		6,3
	125	701 485 399	1	12	0.520	105		7,1
	140	753 960 816	1	12	0.481	136	92	8,3
	160	701 485 401	1	8	0.928	120		9,1
	180	701 485 402	1	10	1.242	128		10,3
	200	701 485 403	1	5	1.675	138		11,4
	225	701 485 404	1	5	2.287	148		12,8
	250	753 960 821	4	0	2.547	205	130	14,8
	280	753 960 822	2	0	3.523	235	139	16,6
	315	753 960 823	2	0	4.758	255	150	18,7
	355	753 960 824	2	0	6.510	280	165	21,1
	400	753 960 825	1	1	9.347	310	180	23,7
*	450	753 960 826	0	0	17.798	265	195	26,7
*	500	753 960 827	0	0	21.400	287	212	29,7
*	560	753 960 828	0	0	29.400	310	230	33,2
*	630	753 960 829	0	0	41.400	340	250	37,4



Type A



Type B

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

	FM	d [mm]	DN [mm]	Code	SP	GP	Weight [kg]
		20	15	753 800 031	10	50	0.060
		25	20	753 800 032	5	30	0.041
		32	25	753 800 008	5	25	0.056
		40	32	753 800 009	2	60	0.081
		50	40	753 800 010	2	50	0.119
		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	2	4.878
	--	280	250	753 800 022	1	3	4.925
	--	315	300	753 800 023	1	2	7.135
	--	355	350	753 800 024	1	2	10.400

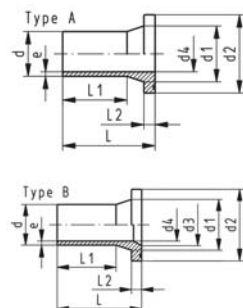
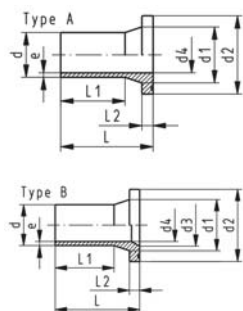
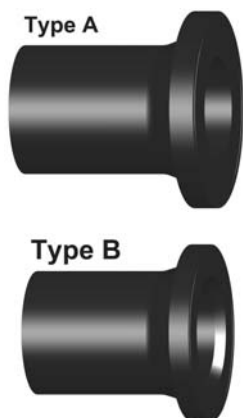


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	FM	d [mm]	DN [mm]	Code	SP	GP	Weight [kg]	
	--	400	400	753 800 025	1	1	14.600	
	--	450	500	753 800 026	1	1	24.800	
	--	500	500	753 800 027	1	1	27.400	
	--	560	600	753 800 028	1	1	40.000	
	--	630	600	753 800 029	1	0	42.300	

	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type
	27	45		16	85	41	7	3	
	33	58		20	85	41	9	3	
	40	68		26	85	44	10	3	A
	50	78		32	85	49	11	4	A
	61	88		40	98	62	12	5	A
	75	102		51	98	69	14	6	A
*	89	122	66	61	125	89	16	7	B
*	105	138	78	73	140	103	17	8	B
*	125	158	100	90	160	117	18	10	B
*	132	158	114	102	170	125	25	11	B
*	155	188	127	114	200	147	25	13	B
*	175	212	158	130	200	147	25	15	B
*	180	212	158	147	200	170	30	16	B
*	232	268	203	163	200	128	32	18	B
*	235	268	210	184	200	138	32	21	B
	285	320	245	204	219	138	35	23	B
	291	320	265	229	231	144	35	25	B
	335	370	300	257	239	158	35	29	B
	373	430	340	290	260	176	40	32	B
	427	482	385	327	290	186	46	36	B
	514	585	400	368	333	195	60	41	B
	530	585	440	409	350	212	60	46	B
	615	685	490	458	365	230	60	51	B
	642	685	545	515	385	250	60	57	B



Flange adaptor LS PE100 SDR17/17.6

Combined jointing face: Flat and serrated

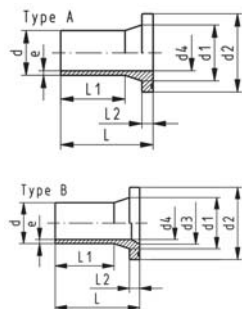
Model:

- Up to d315, suitable for butterfly valve type 567, 568 and 037
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDN No. 48 44 07
- 5 bar Gas / 10 bar Water
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)

* Type B with chamfer

	d [mm]	DN [mm]	Code	SP	GP	Weight [kg]
	90	80	701 490 063	1	24	0.385
	110	100	701 490 064	1	16	0.568
*	125	100	701 490 065	1	16	0.629
*	140	125	701 490 066	1	6	1.073
*	160	150	701 490 067	1	6	1.346
	180	150	701 490 068	1	6	1.478
*	200	200	701 490 069	1	4	2.212
*	225	200	701 490 070	1	4	2.233
	250	250	753 800 096	1	2	3.500
	280	250	753 800 097	1	3	3.714
	315	300	753 800 098	1	2	5.470
	355	350	753 800 099	2	0	16.200
	400	400	753 800 100	1	1	10.300
	450	500	753 800 101	1	1	15.800
	500	500	753 800 102	1	0	19.995
	560	600	753 800 103	1	1	27.500
	630	600	753 800 104	1	1	30.000

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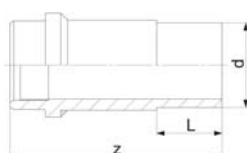


	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	Type	
* * * * * * * * * * * * * * * *	105	138		79	140	103	17	5	A	
	125	158		96	160	117	18	7	A	
	132	158	114	110	170	125	25	7	B	
	155	188	127	123	200	147	25	8	B	
	175	212	158	141	200	147	25	10	B	
	180	212		158	200	170	30	11	A	
	232	268	203	176	200	128	32	12	B	
	235	268	210	198	200	138	32	13	B	
	285	320	245	220	220	148	25	15	B	
	291	320	265	246	230	154	35	17	B	
	335	370	300	277	242	166	36	19	B	
	373	430	340	312	261	179	30	21	B	
	427	483	385	352	290	196	33	24	B	
	514	585		396	333	195	60	27	A	
	530	585		440	350	212	60	30	A	
	615	685		493	365	230	60	33	A	
	642	685		555	385	250	60	37	A	

Adaptor



• PE 100 SDR 11 (ISO S5)

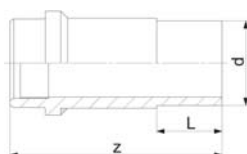


d [mm]	Code	SP	GP	Weight [kg]	DN [mm]	z [mm]	L [mm]	
40	701 485 463	1	12	0.260	40	225	57	
50	701 485 464	6	0	0.270	40	225	63	
63	701 485 465	0	12	0.410	50	230	65	
75	701 485 466	4	4	0.710	65	250	70	
90	701 485 467	3	0	1.000	80	260	80	
110	701 485 468	1	5	2.370	100	270	85	
125	701 485 470	3	0	2.450	125	290	90	
140	701 485 471	1	1	2.140	125	335	150	
160	701 485 474	0	1	3.050	150	305	100	
200	701 485 476	1	1	5.560	200	330	115	

Adaptor



• PE 100 SDR 11 (ISO S5)

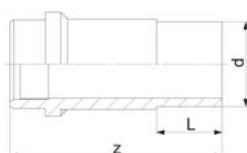


d [mm]	Code	SP	GP	Weight [kg]	DN [mm]	z [mm]	L [mm]	
125	701 485 469	1	1	3.603	100	330	90	
160	701 485 472	1	0	4.990	100	360	100	
160	701 485 473	1	1	7.460	125	360	100	
180	701 485 475	1	2	8.900	150	370	105	
225	701 485 477	1	1	13.300	200	365	150	

Adaptor

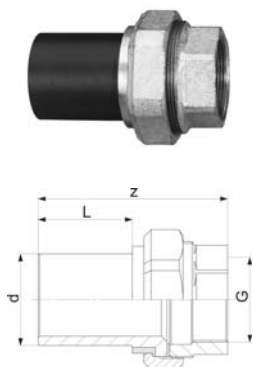


• PE 100 SDR 11 (ISO S5)



d [mm]	Code	SP	GP	Weight [kg]	DN [mm]	z [mm]	L [mm]	
125	701 485 459	1	1	4.650	100	330	90	
160	701 485 460	1	1	4.990	100	360	100	
160	701 485 461	0	1	7.460	125	360	100	
180	701 485 462	1	2	8.900	150	0	0	

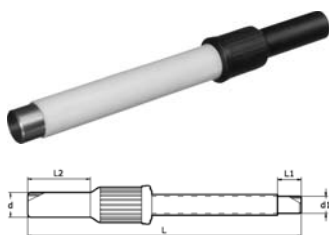
Union adaptor



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

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

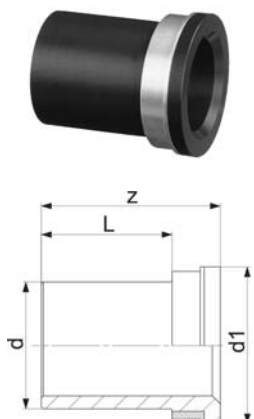
Transition fittings PE/steel



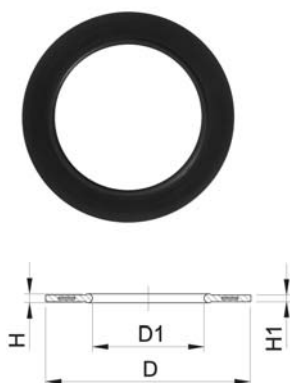
- PE 100 SDR 11 (ISO S5)
- 6 bar Gas / 16 bar Water
- Electrofusion weldable
- Steel pipe acc. to EN 10208-1, PE coated for corrosion resistance
- * Steel pipe without plastic shroud

	d [mm]	d1 [inch]	Code	SP	GP	Weight [kg]	L [mm]	L1 [mm]	L2 [mm]
*	20	½	775 641 502	0	0	0.450	427	35	41
	25	¾	775 641 507	21	0	0.658	462	35	41
	32	1	775 641 510	18	0	0.988	462	35	44
	40	1 ¼	775 641 514	12	0	1.208	470	35	49
	50	1 ½	775 641 518	8	0	1.355	475	35	55
	63	2	775 641 524	6	0	2.011	480	35	63
	75	2 ½	775 641 632	2	0	2.983	545	35	70
	90	3	775 641 636	2	0	3.762	562	45	79
	110	3	775 641 640	2	0	4.381	580	45	82
	110	4	775 641 641	2	0	6.633	580	45	82
	125	4	775 641 645	2	0	6.833	584	45	87
	160	6	775 641 655	1	0	12.406	607	45	98
	180	6	775 641 659	1	0	11.935	605	45	105
	200	8	775 642 664	1	0	19.647	615	45	112
	225	8	775 642 669	1	0	20.154	620	45	120
	250	8	775 642 665	1	0	21.354	640	45	129
	250	10	775 642 666	8	0	30.000	645	45	129
	280	10	775 642 673	8	0	31.000	637	45	139
	315	12	775 642 672	6	0	35.000	730	45	150
	355	12	775 642 675	6	0	49.000	732	45	164
	400	16	775 642 678	4	0	94.000	770	45	179

Union bush



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

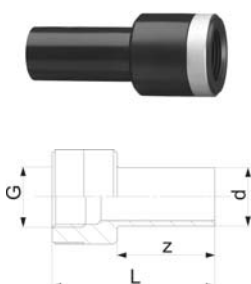


Flat gasket

Model:

- For union adaptors

d [mm]	Code	SP	GP	Weight [kg]	D [mm]	D1 [mm]	H [mm]	
20	701 479 360	0	0	0.010	30	20	2	
25	701 479 361	0	0	0.001	39	25	2	
32	701 479 362	0	0	0.003	44	32	2	
40	701 479 363	0	0	0.003	56	40	2	
50	701 479 364	0	0	0.005	62	46	2	
63	701 479 365	0	0	0.003	78	60	2	



Instrument installation spigots PE80 thread G

Model:

- For the connection of measuring instruments only

- Usable with all types of electrofusion couplers

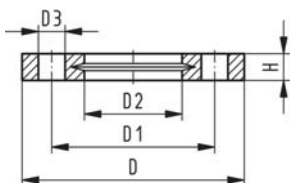
d [mm]	G [inch]	Code	SP	GP	Weight [kg]	z [mm]	L [mm]	
20	½	701 473 809	1	1	0.050	52	90	
25	½	701 473 803	1	1	0.050	52	90	
25	¾	701 473 810	1	1	0.052	52	90	
32	½	701 473 804	1	1	0.060	52	90	
32	1	701 473 811	1	1	0.060	54	90	
40	½	701 473 812	1	1	0.049	57	75	
40	1 ¼	701 473 806	1	1	0.081	57	100	
50	½	701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



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	Weight [kg]	d1 [mm]	
32	701 477 983	0	0	0.003	32	
40	701 477 984	0	0	0.009	40	
50	701 477 985	0	0	0.006	50	
63	701 477 986	0	0	0.012	63	
75	701 477 987	0	0	0.015	75	
90	701 477 988	0	0	0.017	90	
110	701 477 989	0	0	0.038	110	
125	701 477 990	0	0	0.031	125	
160	701 477 992	0	0	0.080	160	
180	701 477 993	0	0	0.120	180	
200	701 477 994	0	0	0.160	200	
225	701 477 995	0	0	0.210	225	



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 dimesnion: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

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

* Combined version, metric-ANSI

	d [mm]	DN [mm]	PN [bar]	Code	SP	GP	Weight [kg]
	20	15	16	727 700 406	56	0	0.093
	25	20	16	727 700 407	38	0	0.120
	32	25	16	727 700 408	80	0	0.151
	40	32	16	727 700 409	40	0	0.244
	50	40	16	727 700 410	30	0	0.297
	63	50	16	727 700 411	25	0	0.362
	75	65	16	727 700 412	19	0	0.487
	90	80	16	727 700 513	15	0	0.544
	110	100	16	727 700 514	13	0	0.643
	125	100	16	727 700 515	13	0	0.635
	140	125	16	727 700 516	10	0	0.842
	160	150	16	727 700 517	0	0	1.200
	180	150	16	727 700 518	0	0	1.200
	200	200	16	727 700 519	0	0	1.400
*	225	200	16	727 700 520	0	0	1.400
	250	250	16	727 700 521	0	0	2.052
	280	250	16	727 700 522	0	0	1.700
	315	300	16	727 700 523	0	0	2.400
	355	350	10	727 700 524	0	0	4.440
	400	400	10	727 700 525	0	0	5.624

	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
	95	65	28	14	16	4	M12
	105	75	34	14	17	4	M12
	115	85	42	14	18	4	M12
	140	100	51	18	20	4	M16
	150	110	62	18	22	4	M16
	165	125	78	18	24	4	M16
	185	145	92	18	26	4	M16
	200	160	108	18	27	8	M16
	220	180	128	18	28	8	M16
	220	180	135	18	28	8	M16
	250	210	158	18	30	8	M16
	285	241	178	22	32	8	M20
	285	240	188	22	32	8	M20
	340	297	235	22	34	8	M20
*	340	297	238	22	34	8	M20
	395	350	288	22	38	12	M20
	395	350	294	22	38	12	M20
	445	400	338	22	42	12	M20
	515	460	376	22	46	16	M20
	574	515	430	26	50	16	M24



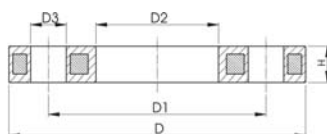
Backing flange PP-Steel For butt fusion systems metric

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

*Combined version, bolt circle metri - ANSI

AL: number of holes



	d [mm]	d [inch]	DN [mm]	PN [bar]	Code	SP	GP	Weight [kg]
	20		15	16	727 700 206	72	0	0.216
	25		20	16	727 700 207	50	0	0.279
	32		25	16	727 700 208	34	0	0.429
	40		32	16	727 700 209	20	0	0.621
	50		40	16	727 700 210	17	0	0.722
	63		50	16	727 700 211	15	0	1.084
	75		65	16	727 700 212	11	0	1.349
	90		80	16	727 700 313	9	0	1.390
	110		100	16	727 700 314	13	0	1.407
	125		100	16	727 700 315	13	0	1.408
	140		125	16	727 700 716	12	0	2.318
*	160	6	150	16	727 700 717	200	0	3.491
	180		150	16	727 700 718	200	0	3.108
*	200	8	200	16	727 700 719	154	0	5.600
*	225	8	200	16	727 700 720	154	0	5.533
	250		250	16	727 700 721	120	0	6.632
	280		250	16	727 700 722	120	0	6.573
	315		300	16	727 700 723	80	0	7.903
	355		350	16	727 700 724	50	0	14.587
	400		400	16	727 700 725	46	0	20.034

	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	26	8	M16
*	160	285	241	178	22	26	8	M20
	180	285	241	188	22	26	8	M20
*	200	340	297	235	22	29	8	M20
*	225	340	297	238	22	29	8	M20
	250	395	350	288	22	32	12	M20
	280	395	350	294	22	32	12	M20
	315	445	400	338	22	36	12	M20
	355	515	460	376	23	42	16	M20
	400	574	515	430	26	42	16	M24



Profiled backing flange PP-Steel For butt fusion systems metric

Model:

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

Note:

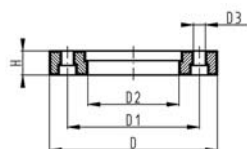
flat side = bolt side profiled side = flange adaptor side

AL: number of holes

* Galvanized steel, suitable for underground laying

	d [mm]	DN [mm]	PN [bar]	Code	SP	GP	Weight [kg]
*	450	450	10	724 705 026	1	0	22.600
	450	500	10	724 700 426	0	0	25.600
	500	500	10	724 700 427	0	0	21.061
	560	600	10	724 700 428	0	0	35.000
	630	600	10	724 700 429	9	0	32.500
	710	700	6	724 700 430	1	0	25.500
	800	800	6	724 700 431	1	0	39.300

	d [mm]	DN [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
*	450	450	615	565	470	26	44	20	M24
	450	500	685	620	517	26	54	20	M24
	500	500	685	620	533	26	54	20	M24
	560	600	796	725	618	30	64	20	M27
	630	600	800	725	645	30	58	20	M27
	710	700	912	840	740	30	49	24	M27
	800	800	1026	950	843	33	58	24	M30



Profiled backing flange PP-Steel For butt fusion systems metric

Model:

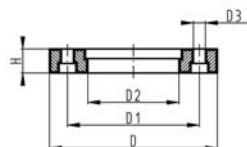
- PP with glass-fibre reinforcement and GGG 50 insert
- UV-resistant. Applicable for outside applications
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 16**

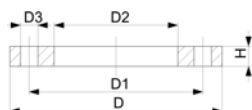
Note:

flat side = bolt side profiled side = flange adaptor side

AL: number of holes

d [mm]	DN [mm]	PN [bar]	Code	SP	GP	Weight [kg]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
200	200	16	724 700 319	1	0	3.549	344	295	235	22	28	12	M20
225	200	16	724 700 320	1	0	3.380	344	295	238	22	28	12	M20
250	250	16	724 700 321	1	0	6.390	410	355	288	26	33	12	M24
280	250	16	724 700 322	1	0	6.310	410	355	294	26	33	12	M24
315	300	16	724 700 323	1	0	9.740	455	410	338	26	40	12	M24
355	350	16	724 700 324	1	0	15.203	521	470	376	26	50	16	M24
400	400	16	724 700 325	1	0	20.600	582	525	430	30	54	16	M27





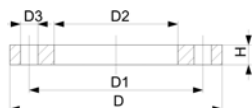
Backing flange steel For butt fusion systems metric

Model:

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

AL: number of holes

d	DN	PN	Code	SP	GP	Weight	D	D1	D2	D3	H	AL	SC
[mm]	[mm]	[bar]				[kg]	[mm]	[mm]	[mm]	[mm]	[mm]		
32	25	16	701 474 390	0	0	0.830	115	85	42	14	12	4	M12
40	32	16	701 474 391	0	0	1.430	140	100	51	18	14	4	M16
50	40	16	701 474 392	0	0	1.530	150	110	62	18	14	4	M16
63	50	16	701 474 393	0	0	1.840	165	125	78	18	16	4	M16
75	65	16	701 474 394	0	0	2.150	185	145	92	18	16	4	M16
90	80	16	701 474 395	0	0	2.830	200	160	108	18	18	8	M16
110	100	16	701 474 396	0	0	3.300	220	180	128	18	18	8	M16
125	100	16	701 474 397	0	0	3.170	220	180	135	18	18	8	M16
125	125	16	701 474 386	0	0	3.500	250	210	135	18	25	8	M16
140	125	16	701 474 387	0	0	4.100	250	210	158	18	18	8	M16
160	150	16	701 474 382	0	0	5.440	285	240	178	22	20	8	M20
180	150	16	701 474 398	0	0	5.180	285	240	188	22	20	8	M20
200	200	16	701 480 475	0	0	7.445	340	295	235	22	24	12	M20
225	200	16	701 480 476	0	0	7.810	340	295	238	22	24	12	M20
250	250	16	701 480 477	0	0	8.120	405	355	288	26	30	12	M24
280	250	16	701 480 478	0	0	8.320	405	355	294	26	30	12	M24
315	300	16	701 480 479	0	0	9.850	460	410	338	26	34	12	M24
355	350	16	701 480 480	0	0	10.500	520	470	376	26	35	16	M24
400	400	16	701 480 481	0	0	24.400	580	525	430	30	38	16	M27
450	500	16	701 480 482	0	0	37.000	715	650	517	33	46	20	M30
500	500	16	701 480 483	0	0	32.000	715	650	533	33	46	20	M30



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

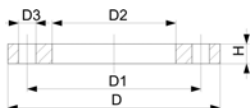
* Profiled version

AL: number of holes

	d	DN	PN	Code	SP	GP	Weight	
	[mm]	[mm]	[bar]				[kg]	
	200	200	10	701 474 383	0	0	6.630	
	225	200	10	701 474 388	0	0	6.814	
	250	250	10	701 474 399	1	0	9.090	
	280	250	10	701 474 400	1	0	8.700	
	315	300	10	701 474 401	1	0	12.500	
	355	350	10	701 480 489	1	0	18.300	
*	450	450	10	724 705 026	1	0	22.600	
	400	400	10	701 480 490	1	0	24.400	
	450	500	10	701 480 491	1	0	37.000	
	500	500	10	701 480 492	1	0	32.000	
	560	600	10	701 480 493	0	0	56.300	
	630	600	10	701 480 494	0	0	47.200	

	d	D	D1	D2	D3	H	AL	SC
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
	200	340	295	235	22	20	8	M20
	225	340	295	238	22	20	8	M20
	250	395	350	288	22	22	12	M20
	280	395	350	294	22	22	12	M20
	315	445	400	338	22	26	12	M20

table continued next page



	d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC	
*	355	505	460	376	22	28	16	M20	
	450	615	565	470	26	44	20	M24	
	400	565	515	430	26	32	16	M24	
	450	670	620	517	26	38	20	M24	
	500	670	620	533	26	38	20	M24	
	560	780	725	618	30	42	20	M27	
	630	780	725	645	30	42	20	M27	



Profiled backing flange steel For butt fusion systems metric

Model:

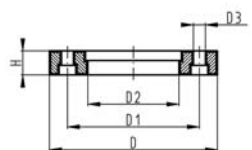
- Ductile iron (GGG40), epoxy coated (black)
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

* Galvanized steel, suitable for underground laying

AL: number of holes

Note:

flat side = bolt side profiled side = flange adaptor side



	d [mm]	DN [mm]	PN [bar]	Code	SP	GP	Weight [kg]	
*	450	450	10	724 705 026	1	0	22.600	
	710	700	6	724 705 130	1	0	36.400	
	800	800	6	724 705 131	1	0	50.500	
	900	900	6	724 705 132	1	0	55.800	
	1000	1000	6	724 705 133	1	0	71.100	
	1200	1200	4	724 705 134	1	0	101.000	

	d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC	
*	450	615	565	470	26	44	20	M24	
	710	900	840	740	30	45	24	M27	
	800	1015	950	843	33	53	24	M30	
	900	1115	1050	947	33	56	28	M30	
	1000	1230	1160	1050	36	62	28	M33	
	1200	1455	1380	1260	39	68	32	M36	



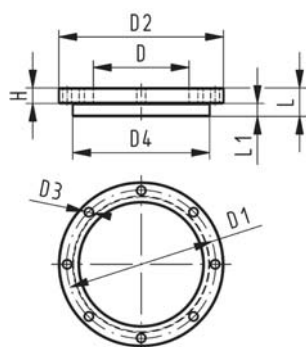
Blanking flange set PE Combined jointing face flat and serrated metric

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**

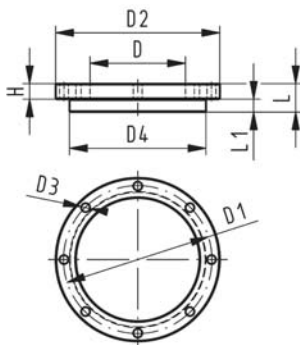
AL: number of holes

L: length of the End Blank



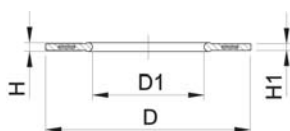
d [mm]	DN [mm]	PN [bar]	Code	SP	GP	Weight [kg]	
63	50	16	753 700 611	1	1	0.674	
75	65	16	753 700 612	1	1	0.910	
90	80	16	753 700 613	1	1	0.921	
110	100	16	753 700 614	1	0	1.158	
125	100	16	753 700 615	1	1	1.678	
140	125	16	753 700 616	1	1	1.913	
160	150	16	753 700 617	1	1	2.373	
180	150	16	753 700 618	1	1	2.430	
200	200	16	753 700 619	1	1	3.495	
225	200	16	753 700 620	1	1	3.744	

table continued next page



d [mm]	DN [mm]	PN [bar]	Code	SP	GP	Weight [kg]
250	250	16	753 700 621	1	1	6.051
280	250	16	753 700 622	1	1	6.305
315	300	16	753 700 623	1	1	8.894
355	350	16	753 700 624	1	1	23.198
400	400	16	753 700 625	1	1	30.766
450	500	10	753 700 626	1	1	44.271
500	500	10	753 700 627	1	1	47.165
560	600	10	753 700 628	1	1	67.147
630	600	10	753 700 629	1	1	68.574

d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	L [mm]	L1 [mm]	H [mm]	AL	SC
63	75	125	165	18	102	30	14	24	4	M16
75	89	145	185	18	122	30	16	26	4	M16
90	105	160	200	18	138	30	17	27	8	M16
110	125	180	220	18	158	30	18	28	8	M16
125	132	180	220	18	158	35	25	28	8	M16
140	155	210	250	18	188	40	25	30	8	M16
160	175	240	285	22	212	40	25	32	8	M20
180	180	240	285	22	212	45	30	32	8	M20
200	232	295	340	22	268	50	32	34	8	M20
225	235	295	340	22	268	50	32	34	8	M20
250	285	350	395	22	320	55	35	38	12	M20
280	291	350	395	22	320	60	35	38	12	M20
315	335	400	445	22	370	65	35	42	12	M20
355	373	460	515	22	430	70	40	40	16	M20
400	427	515	574	26	482	75	46	40	16	M24
450	510	620	684	26	585	80	60	49	20	M24
500	530	620	684	26	585	90	60	49	20	M24
560	615	725	796	30	685	100	60	58	20	M27
630	642	725	796	30	685	110	60	68	20	M27



Profile Flange Gasket, metric EPDM / FPM

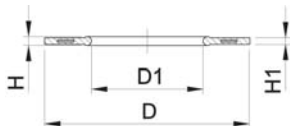
Model:

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

di FA are the suitable inner diameters of flanges adaptors

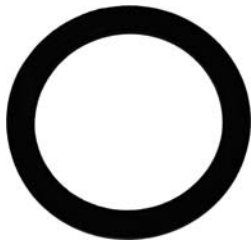
d [mm]	PN [bar]	DN [mm]	EPDM Code	SP	GP	FPM Code	SP	GP	Weight [kg]
16	16	10	748 440 705	0	0	749 440 705	0	0	0.012
20	16	15	748 440 706	0	0	749 440 706	0	0	0.013
25	16	20	748 440 707	0	0	749 440 707	0	0	0.014
32	16	25	748 440 708	0	0	749 440 708	0	0	0.019
40	16	32	748 440 709	0	0	749 440 709	0	0	0.026
50	16	40	748 440 710	0	0	749 440 710	0	0	0.039
63	16	50	748 440 711	0	0	749 440 711	0	0	0.050
75	16	65	748 440 712	0	0	749 440 712	0	0	0.082
90	16	80	748 440 713	0	0	749 440 713	0	0	0.083
110	16	100	748 440 714	0	0	749 440 714	0	0	0.127
125	16	100	748 440 715	0	0	749 440 715	0	0	0.105
140	16	125	748 440 716	0	0	749 440 716	0	0	0.173
160 - 180	16	150	748 440 717	0	0	749 440 717	0	0	0.207
200	16	200	748 440 719	0	0	749 440 719	0	0	0.263
225	16	200	748 440 720	0	0	749 440 720	0	0	0.255
250	16	250	748 440 721	0	0	749 440 721	0	0	0.462
280	16	250	748 440 722	0	0	749 440 722	0	0	0.323
315	16	300	748 440 723	0	0	749 440 723	0	0	0.549

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d [mm]	PN [bar]	DN [mm]	EPDM Code	SP	GP	FPM Code	SP	GP	Weight [kg]	
355	16	350	748 440 724	0	0	749 440 724	0	0	0.870	
400	16	400	748 440 725	0	0	749 440 725	0	0	1.088	
450	16	500	748 440 726	0	0	749 440 726	0	0	0.718	
500	16	500	748 440 727	0	0	749 440 727	0	0	0.718	
560	16	600	748 440 728	0	0	749 440 728	0	0	0.923	
630	16	600	748 440 729	0	0	749 440 729	0	0	0.923	

d [mm]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	di FA [mm]	
16	46	16	4	3	6 - 16	
20	51	20	4	3	10 - 20	
25	61	22	4	3	12 - 22	
32	71	28	4	3	18 - 28	
40	82	40	4	3	30 - 40	
50	92	46	4	3	36 - 46	
63	107	58	5	4	48 - 58	
75	127	69	5	4	59 - 69	
90	142	84	5	4	73 - 84	
110	162	104	6	5	94 - 104	
125	162	123	6	5	113 - 123	
140	192	137	6	5	127 - 137	
160 - 180	218	160	8	6	150 - 160	
200	273	203	8	6	192 - 203	
225	273	220	8	6	207 - 220	
250	328	252	8	6	238 - 252	
280	328	274	8	6	264 - 274	
315	378	306	8	6	296 - 306	
355	438	355	10	7	340 - 355	
400	489	400	10	7	385 - 400	
450	594	403	10	7	393 - 403	
500	594	447	10	7	437 - 447	
560	695	494	10	7	484 - 494	
630	695	555	10	7	545 - 555	

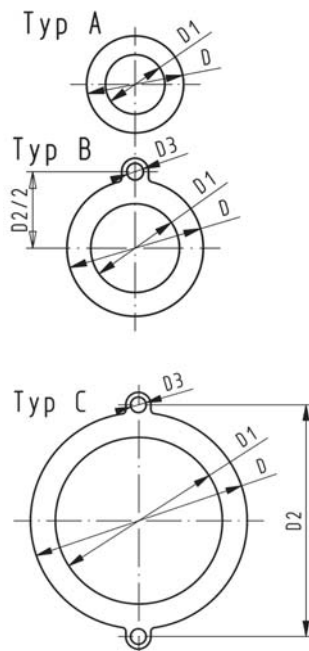


Flat gasket

Model:

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

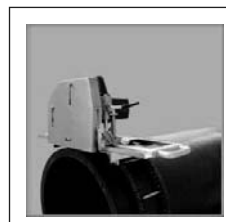
di FA are the suitable inner diameters of flanges adaptors



d [mm]	DN [mm]	PN [bar]	Type	EPDM Code	SP	GP	Weight [kg]
16	10	10	A	748 400 305	0	0	0.004
20	15	10	A	748 400 306	0	0	0.012
25	20	10	A	748 400 307	0	0	0.004
32	25	10	A	748 400 308	0	0	0.008
40	32	10	A	748 400 309	0	0	0.013
50	40	10	A	748 400 310	0	0	0.016
63	50	10	A	748 400 311	0	0	0.018
75	65	10	A	748 400 312	0	0	0.029
90	80	10	A	748 400 313	0	0	0.035
110	100	10	B	748 400 314	0	0	0.051
125	100	10	B	748 400 315	0	0	0.044
140	125	10	B	748 400 316	0	0	0.068
160 - 180	150	10	B	748 400 317	0	0	0.090
200	200	6	C	748 400 319	0	0	0.210
225	200	6	C	748 400 320	0	0	0.140
250	250	6	C	748 400 321	0	0	0.210
280	250	6	C	748 400 322	0	0	0.151
315	300	6	C	748 400 323	0	0	0.237

d [mm]	DN [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	di FA [mm]
16	10	46	16			2	6 - 26
20	15	51	20			2	10 - 30
25	20	61	25			2	15 - 35
32	25	71	32			2	22 - 42
40	32	82	40			3	30 - 50
50	40	92	50			3	40 - 60
63	50	107	63			3	53 - 73
75	65	127	71			3	61 - 81
90	80	142	84			3	74 - 94
110	100	162	104	180	18	4	94 - 114
125	100	162	119	180	18	4	109 - 129
140	125	192	134	210	18	4	124 - 144
160 - 180	150	218	155	241	22	4	145 - 165
200	200	273	195	295	22	5	185 - 205
225	200	273	216	295	22	5	206 - 226
250	250	328	250	350	22	5	240 - 260
280	250	328	273	350	22	5	263 - 283
315	300	378	305	400	22	5	295 - 315

Machines & Tools



Electrofusion units and accessories



MSA Plus 400 Traceability electrofusion unit With USB interfaces

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	45 Hz - 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	SP	GP	Weight [kg]	Description
MSA Plus 400	799 350 581	0	0	15.926	barcode scanner, transport case
MSA Plus 400	799 350 586	0	0	16.800	CH power plug with barcode scanner, transport case



MSA Plus 350 Record electrofusion unit With USB interfaces

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	45 Hz - 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	SP	GP	Weight [kg]	Description
MSA Plus 350	799 350 571	0	0	15.852	barcode scanner, transport case
MSA Plus 350	799 350 576	0	0	16.800	CH Power plug, with barcode scanner, transport case



EFL 20 Automatic Electrofusion Unit

The EFL 20 automatic electrofusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion. It is robust, safe and ergonomic.

All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.

The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.

Scope of delivery includes: 1 pair of angle adapter clips 4.0 mm, operating instructions and robust transport case

Technical Data:

- Operating temperature: -20°C to +50°C
- Mains frequency: 40-70 Hz
- Mains voltage: 230 V (190V - 265V)
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-42 V (48 V)
- Fittings range: d16-1200 mm
- Fusion data input mode: bar code, manual
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 3 m
- Dimensions: 280 x 420 x 280 mm
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: all

Type	Code	SP	Weight [kg]	GP
EFL 20 with barcode scanner and transport box	790 156 008	1	20.000	0



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 Pus 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	SP	GP	Weight [kg]	Description
799 350 365	0	0	0.054	Software for MSA 350-400 and MSA Plus 350-400



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	SP	GP	Weight [kg]	Description	
799 350 401	1	0	4.781	Transport Case MSA (30x33x20 cm)	
799 350 472	0	0	5.248	Transport Case large MSA Plus (33x47x22 cm)	



USB serial converter

- RS 232-USB, length 0.4 m, only with PC data transfer cable (Code 799 350 385)
- Provided with driver CD

Type	Code	SP	GP	Weight [kg]	Description	
MSA 350-400	799 350 495	0	0	0.200	RS 232/USB converter cable	



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	SP	GP	Weight [kg]	Description	
799 350 622	0	0	0.035	Memory stick (for software or languages updates)	



USB cable

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

Code	SP	GP	Weight [kg]	Description	
799 350 619	0	0	0.062	USB cable (type A/B) for printer and PC connection	



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	SP	GP	Weight [kg]	Description	
799 350 621	0	0	0.010	Memory card (32 MB capacity for 1700 fusion protocols)	



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	SP	GP	Weight [kg]	Description	
799 350 620	0	0	0.086	multiple card reader	



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	SP	GP	Weight [kg]	Description	
799 350 623	0	0	0.073	Adapter Card PCMCIA-CF	

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	SP	GP	Weight [kg]	
RS 40	40	790 136 001	1	1	1.310	
RS 50	50	790 136 002	1	1	1.310	
RS 63	63	790 136 003	1	1	1.310	
RS 75	75	790 136 004	1	1	1.540	
RS 90	90	790 136 005	1	1	1.540	
RS 110	110	790 136 006	1	1	1.540	
RS 125	125	790 136 007	1	1	1.730	
RS 140	140	790 136 008	1	1	1.730	
RS 160	160	790 136 009	1	1	1.730	
RS 180	180	790 136 010	1	1	2.030	
RS 200	200	790 136 011	1	1	2.030	
RS 225	225	790 136 012	1	1	2.030	
RS 250	250	790 136 013	1	1	2.440	
RS 280	280	790 136 014	1	1	2.440	
RS 315	315	790 136 015	1	1	2.440	



Replacement blade to Rotary Peeler RS

d-d [mm]	Description	Code	SP	GP	Weight [kg]	
40 - 315	Hard metal	790 136 100	0	0	0.005	



Transport cases for Rotary Peeler RS

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

Article	Code	SP	GP	Weight [kg]	Description	Dimension [mm]	
RSTC 40-110	790 136 211	0	0	0.718	for RS 40-RS 110	326 - 222 - 116	
RSTC 125-160	790 136 212	0	0	1.212	for RS 125-RS 160	437 - 395 - 116	
RSTC 180-225	790 136 213	0	0	1.796	for RS 180-RS 225	450 - 360 - 132	
RSTC 250-315	790 136 214	0	0	2.901	for RS 250-RS 315	566 - 435 - 156	



Rotary peeling tool RST 1000

- The flexible peeling tool RST 1000 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 d1000 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	SP	GP	Weight [kg]	
250 - 1000	799 300 799	1	0	10.552	



Replacement blade for rotary peeling tool RST 1000

d-d [mm]	Code	SP	GP	Weight [kg]	Description	
250 - 1000	799 300 802	0	0	0.001	Replacement blade in carbide	



Transportbox RST 1000 with inlays

- Included in the scope of delivery of the Rotary Peeler RST 1000

d-d [mm]	Code	SP	GP	Weight [kg]	
250 - 1000	799 300 806	0	0	0.250	



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	SP	GP	Weight [kg]	Description	
20 - 90	799 150 382	0	0	2.261	Basic Tool PT 1 E	

Pipe inserts for peeling tool PT 1 E



d [mm]	e [mm]	Code	SP	GP	Weight [kg]	Description	
20	1.9	799 300 739	0	0	0.220	Pipe Insert SDR 11	
20	3.0	799 300 741	0	0	0.262	Pipe Insert SDR 7	
25	2.3	799 300 740	0	0	0.280	Pipe Insert SDR 11	
25	3.0	799 300 742	0	0	0.290	Pipe Insert SDR 9	
32	3.0	799 300 743	0	0	0.312	Pipe Insert SDR 11	
40	3.7	799 300 744	0	0	0.341	Pipe Insert SDR 11	
40	1.8	799 300 760	1	0	0.220	Pipe Insert SDR 26	
50	4.6	799 300 745	0	0	0.472	Pipe Insert SDR 11	
50	2.0	799 300 761	1	0	0.220	Pipe Insert SDR 26	
56	2.2	799 300 762	1	0	0.588	Pipe Insert SDR 26	
63	3.8	799 300 725	0	0	0.663	Pipe Insert SDR 17	
63	5.8	799 300 746	0	0	0.602	Pipe Insert SDR 11	
63	2.5	799 300 763	1	0	0.220	Pipe Insert SDR 26	
75	4.5	799 300 727	0	0	0.690	Pipe Insert SDR 17	
75	6.9	799 300 747	0	0	0.644	Pipe Insert SDR 11	
75	2.9	799 300 764	1	0	0.220	Pipe Insert SDR 26	
90	5.4	799 300 748	0	0	0.892	Pipe Insert SDR 17	
90	8.2	799 300 749	0	0	0.796	Pipe Insert SDR 11	

Replacement blade for peeling tool PT 1 E



PT 1 E

d-d [mm]	Code	SP	GP	Weight [kg]	Description	
20 - 90	799 150 383	0	0	0.028	Replacement blade, 1 piece	

Peeling tool PT 2



- Scope of delivery: 1 tool (size 1, 2 or 3) in a metal carrying case.
- 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.

d-d [mm]	Code	SP	GP	Weight [kg]	Description	
63 - 250	799 300 752	1	0	7.500	Size 1, peeling length 140 mm	
110 - 400	799 300 755	1	0	3.900	Size 2, peeling length 150 mm	
110 - 500	799 300 756	1	0	3.900	Size 3, peeling length 175 mm	

Replacement blade for peeling tool PT 2



PT 2

d-d [mm]	Code	SP	GP	Weight [kg]	Description	
90 - 500	799 150 355	1	0	0.008	Replacement blade, 1 piece	

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	SP	GP	Weight [kg]	Description	
1.9	20	799 300 704	0	0	0.303	Pipe Insert SDR 11	
3.0	20	799 300 705	0	0	0.296	Pipe Insert SDR 7	
2.3	25	799 300 706	0	0	0.320	Pipe Insert SDR 11	
3.0	25	799 300 707	0	0	0.314	Pipe Insert SDR 9	
3.0	32	799 300 708	0	0	0.340	Pipe Insert SDR 11	
3.7	40	799 300 709	0	0	0.437	Pipe Insert SDR 11	
4.6	50	799 300 710	0	0	0.502	Pipe Insert SDR 11	
5.8	63	799 300 711	0	0	0.541	Pipe Insert SDR 11	

Replacement blade for peeling tool PT 4



PT 4

d-d [mm]	Piece	Code	SP	GP	Description	
20 - 63	1	799 150 275	1	0	Replacement blade with 4 cutting surfaces	

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	SP	GP	Weight [kg]	Description	
355 - 710	799 300 757	0	0	31.400	max. working-range 530 mm	

Replacement blade for peeling tool RTC-710



d-d [mm]	Piece	Code	SP	GP	Weight [kg]	Description	
355 - 710	1	799 300 586	30	0	0.020	Replacement blade, 1 piece	

Hand scraper



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

Code	SP	GP	Weight [kg]	Description	
799 198 094	1	0	0.143	Hand scraper with long handle	



KS Tangit Cleaner

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

Code	SP	GP	Weight [kg]	
799 298 023	8	0	0.872	



Tangit KS-Cleaning Tissues

For plastic welding joints PB, PE, PP, PVDF
Sales unit: 1 dispenser with 100 tissues

Code	SP	GP	Weight [kg]	
799 298 024	8	0	0.333	



Marker

Type	Code	SP	GP	Weight [kg]	
silver	799 350 364	1	100	0.010	

Tapping tools



Assembly and tapping key for saddles

- Combination tool for tapping and tightening of fixation screws.

Type	Code	SP	GP	Weight [kg]	Description	
8/10/17	799 198 047	1	0	0.798	For all saddles	



Tapping key for saddles

- With adjustable tapping depth.

Type	Code	SP	GP	Weight [kg]	Description	
10	799 198 080	0	0	0.114	for Monobloc d 40 mm and d 50 mm	
17	799 198 079	1	1	0.556	for Monobloc d 63 mm, d 90 - 160 mm	
12.7	799 198 091	0	0	0.543	and all Duobloc saddles for socket with cutter	



Hexagon key for saddles and branch fittings

- For tightening fixation screws.

Type	Code	SP	GP	Weight [kg]	Description	
SW8	799 150 378	1	0	0.129	For all saddles and branch fittings	



Tapping Adapter for 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).

Type	Code	SP	GP	Weight [kg]	Description	
S 54	799 100 061	1	1	0.785	for Tapping Tee d 32 mm	
S 67	799 100 062	1	1	1.011	for Tapping Tee d 63 mm	



Pressure test cap for 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	SP	GP	Weight [kg]	Description	
M	799 199 282	1	0	0.116	for Monobloc d 40 mm and d 50 mm	
S 54	799 199 283	1	0	0.260	for Tapping Tee d 20 - 40 mm	
S 67	799 199 286	1	0	0.430	for Tapping Tee outlet d 63 mm	
MB	799 199 287	1	0	0.037	for Monobloc d63-160 mm	



Core cutter set for PE pipes

- Suitable for drilling of pressureless PE pipes
- Set includes core cutter, centre drill, adapter SDS max, ejector rod and transport box
- Suitable for branch saddle with spigot outlet (193135402 - 748)
- Core cutter is specially developed for plastic material
- Enables quick drilling
- Cutout stays in the core cutter

Technical information

Core cutter

L = 300 mm

d = spigot outlet fitting in mm

d1 = spot boring diameter in mm

Max. wall thickness = 120 mm

Pilot drill

d = 14mm, L = 400 mm

Ejector rod

d = 12mm, L = 500 mm

Connection drill machine

SDS max

Connection core cutter

G 1/2" (female thread) d160, 225, 315

G 1 1/4" (female thread) d500

Machine suggestion

Effective power minimum 1000 watt

Rotation speed 100-200 rpm

d [mm]	d1 [mm]	Code	SP	Weight [kg]	GP	Description	
160	123	799 198 101	1	7.200	1	Core cutter set in transport box	
225	172	799 198 102	1	10.000	1	Core cutter set in transport box	
315	238	799 198 103	1	13.400	1	Core cutter set in transport box	
500	420	799 198 104	1	34.000	1	Core cutter set in transport box	



Transport box for Core cutter set

- Suitable for core cutter set (799198101 - 104)

d [mm]	Code	SP	GP	Description	
160	799 198 121	1	0	Transport box 160; 565x170x180mm	
225	799 198 122	1	0	Transport box 225; 565x220x230mm	
315	799 198 123	1	0	Transport box 315; 280x280x565mm	
500	799 198 124	1	0	Transport box 500; 465x465x565mm	



Drill stand for Core cutter set

- Suitable for safe and guided drilling of pressureless PE pipes
- Set includes drill stand, drilling machine, extension arm and standtracks
- Suitable for branch saddle with spigot outlet (193135402 - 748)
- Suitable for core cutter set (799198101 - 104)
- Tension belts for the fixation of the drill stand onto the PE pipe are not included in scope of delivery
- Use of Core cutters 160/225/315 requires additionally adaptor 1 1/4" - 1/2" (799198138)
- In case of using the pilot drill for core cutters 160/225/315 adaptor 1/2"M - 1/2" F (799198106) is required

Code	SP	GP	Description	
799198137	1	0	Drill stand BS400 with vulcanised-rubber bonded standtracks. Extension arm suitable for branch saddle 4-drift drill machine D38-BB	

Clamps and installation aids

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	SP	GP	Weight [kg]	
63 - 180	799 350 358	0	0	3.620	

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	SP	GP	Weight [kg]	
63 - 125	799 301 484	0	0	3.506	
110 - 225	799 301 486	0	0	7.918	
225 - 500	799 301 488	0	0	14.735	

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	SP	GP	Weight [kg]	
63 - 125	799 301 459	0	0	7.142	
110 - 225	799 301 461	0	0	16.490	
225 - 500	799 301 463	0	0	28.500	

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	SP	GP	Weight [kg]	
20	799 301 536	0	0	0.658	
25	799 301 537	0	0	0.471	
32	799 301 538	0	0	0.756	
40	799 301 539	0	0	1.079	
50	799 301 540	0	0	1.326	
63	799 301 541	0	0	1.618	

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	SP	GP	Weight [kg]	
20 - 63	799 301 575	1	0	0.782	

Inserts for multi clamp



- The inserts are easily and quickly exchanged. A set consists of 4 inserts, each insert with 2 different dimensions.

d-d [mm]	Code	SP	GP	Weight [kg]	Description	
25 - 20	799 150 385	0	0	0.488	Inserts, Sets	
32 - 20	799 150 386	0	0	0.500	Inserts, Sets	
32 - 25	799 150 387	0	0	0.520	Inserts, Sets	
40 - 32	799 150 388	0	0	0.500	Inserts, Sets	
50 - 40	799 150 389	0	0	0.500	Inserts, Sets	
63 - 32	799 150 390	0	0	0.520	Inserts, Sets	
63 - 40	799 150 391	0	0	0.520	Inserts, Sets	
63 - 50	799 150 392	0	0	0.520	Inserts, Sets	



Clamping device topload 400

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

d-d [mm]	Code	SP	GP	Weight [kg]	
280 - 400	799 350 475	0	0	10.010	



Clamping device topload 630

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

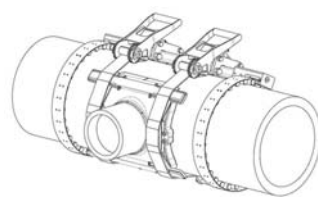
d-d [mm]	Code	SP	GP	Weight [kg]	
280 - 630	799 350 477	1	0	28.275	



Clamping attachment topload 630

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

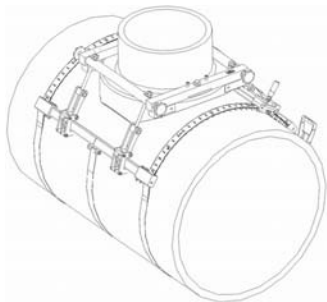
d-d [mm]	Code	SP	GP	Weight [kg]	
280 - 630	799 350 476	0	0	5.000	



Installation set Topload TL 225

- Suitable for branch saddle d315-1000mm with spigot outlet d160/d225
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp and transport box
- Patent pending

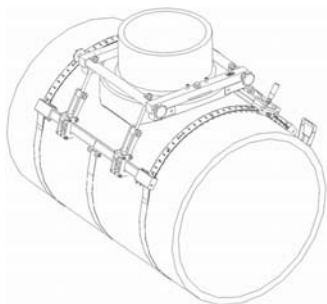
Code	SP	Weight [kg]	GP	
799 300 807	1	48.000	1	



Installation set Topload TL 315

- Suitable for branch saddle d500-2000mm with spigot outlet d315
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp for outlet d315mm and transport box
- For outlet d500 the clamp TL 500 is to be used, is not included in scope of delivery
- Patent pending

Code	SP	Weight [kg]	GP	
799 300 808	1	104.000	1	



Installation set Topload TL 500

- Suitable for branch saddle d500-2000mm with spigot outlet d500
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp for outlet d315mm/500mm and transport box
- Patent pending

Code	SP	Weight [kg]	GP	
799 300 809	1	124.000	1	



Accessories / single parts for Installation set Topload

Code	SP	GP	Description
799 300 923	1	1	Transport box TL 225 (860x700x180)
799300820	1	1	Frame TL 225 incl. tension belt up to 1000mm
799 300 835	1	1	Peeling tool TL 225
799300920	1	1	Clamp TL 225
799 300 831	1	0	Peel cutter TL



Accessories for Core cutter set

- Suitable for core cutter set (799198101 - 104)

Code	SP	GP	Description
799198133	1	0	Pilot drill d = 14mm; L = 365 mm
799198131	1	0	Ejector rod d = 12mm; L = 500 mm
799198138	1	0	Adaptor 1 1/4" UNC-R- 1/2"
799198105	1	0	Adaptor drill chuck 13
799198106	1	0	Adaptor thread
799 198 107	1	0	Adaptor SDS-max



Clamp set Topload TL 500

- Suitable for branch saddle d500-2000mm with spigot outlet d500
- Complementary set to Installation set Topload TL 315 for clamping branch saddles with outlet d500mm
- Use of set is mandatory for the installation of branch saddles
- Set includes clamp for spigot outlet d500 and transport box

Code	SP	Weight [kg]	GP
799 300 813	1	19.500	1

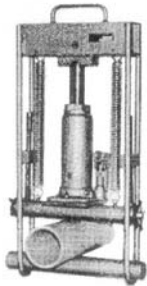
Squeeze-off and rerounding tools



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	SP	GP	Weight [kg]	Description	
20 - 63	799 350 107	0	0	4.901	S1 for PE pipes SDR 11	



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	SP	GP	Weight [kg]	Description	
63 - 180	799 350 108	0	0	36.500	S2 for PE pipes SDR 11 and SDR 17	



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	SP	GP	Weight [kg]	Description	
160 - 250	799 350 270	0	0	60.000	A25 for PE pipes SDR 11 and SDR 17	

Plastic pipe cutters and accessories

PPC Plastic pipe cutter



- For cutting plastic pipes d10 - d160

Article	d-d [mm]	Code	SP	GP	Weight [kg]	Closest inch [inch]	
PPC 63, s max. = 7.2mm	10 - 63	790 109 001	1	0	0.865	⅝ - 2	
PPC 110, s max. = 12.7mm	50 - 110	790 109 002	1	0	1.624	1 ½ - 4	
PPC 160, s max. = 19.0mm	110 - 160	790 109 003	1	0	2.212	4 - 6	

Replacement cutting wheels



- for plastic pipe cutter

d-d [mm]	Article	Code	SP	GP	Weight [kg]	
10 - 63	SR 63 max. s=7,2 mm	790 109 011	50	0	0.004	
50 - 110	SR 110/160 max. s=12,7 mm	790 109 012	50	0	0.015	
110 - 160	SR 160 max. s=19,0 mm	790 109 013	30	0	0.023	



KS 355 Plastic pipe cutter

- The KS 355 is the ideal tool for right-angled cuts with no misalignment of PE, PP and PVC pipes
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary
- Weight of the saw: 13,0 kg
- Power: 1750 W ; 230 V 50 / 60 Hz
- Supplied with transport box: Dimension 700 x 350 x 500 mm; Weight 17,0 kg

d-d [mm]	Code	SP	GP	Weight [kg]	
160 - 355	790 202 001	0	0	35.000	

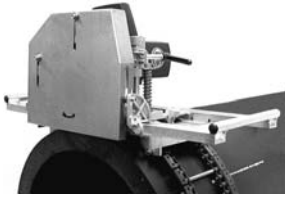


Replacement saw blade Ø 180x30 for KS 355

Code	SP	GP	Weight [kg]	
790 202 011	0	0	0.450	

KS 1600

Plastic pipe cutter



- The easy handling and an optimal safety do make the saw indispensable on each construction site
- Motor hand-circular saw with chain guiding
- The machine consists of a motorized hand saw, with guide carriage and tensioning chain for each pipe diameter
- The tensioning chain is to be out around the pipe and tightened by means of the chain tensioner. The carriage is applied with the hand circular saw. The pipe is cut by moving the carriage around the pipe.
- A quick, clean and right angled cut is the result

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

d-d [mm]	Type	Code	SP	GP	Weight [kg]	
500 - 1600	KS 1600 Basic Kit	790 109 600	0	0	43.000	

KS 1600 Accessoires

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	GP	Weight [kg]	
500 - 1600	790 109 616	0	0	0.400	

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	SP	GP	Weight [kg]	
500	790 109 605	0	0	5.200	
560	790 109 606	0	0	5.600	
630	790 109 607	0	0	6.630	
710	790 109 608	0	0	7.900	
800	790 109 609	0	0	9.100	
900	790 109 610	0	0	10.100	
1000	790 109 611	0	0	11.000	
1100	790 109 612	0	0	12.000	
1200	790 109 613	0	0	13.500	
1400	790 109 614	0	0	15.500	
1600	790 109 615	0	0	17.800	

KS 1600 Wearing parts

Replacement saw blade for KS 1600



description	Code	SP	GP	Weight [kg]	
Saw Blade 240X3,0X30, 18 teeth punched	790 109 618	0	0	0.653	

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	SP	GP	Weight [kg]	Description	
25	799 199 127	1	0	0.577	Type nut cracker	
32	799 199 128	1	0	0.500	Type nut cracker	
40	799 199 129	1	0	1.500	Type nut cracker	
50	799 199 130	1	0	1.616	Type nut cracker	
63	799 199 131	1	0	0.742	Type hinged collar	
75	799 199 132	1	0	0.791	Type hinged collar	
90	799 199 133	1	0	1.690	Type hinged collar	
110	799 199 134	1	0	1.537	Type hinged collar	
125	799 199 135	1	0	1.917	Type hinged collar	
160	799 199 137	1	0	2.318	Type hinged collar	

table continued next page

d [mm]	Code	SP	GP	Weight [kg]	Description	
180	799 199 138	1	0	2.493	Type hinged collar	
200	799 199 139	1	0	2.500	Type split collar	
225	799 199 140	1	0	3.361	Type split collar	
250	799 199 141	1	0	1.872	Type split collar	



Re-rounding tool

- Enables mechanical re-rounding of out-of-roundness PE pipes for fusion preparation
- Recommended for installation of electrofusion couplers and electrofusion saddles
- We generally recommend the use of 2 re-rounding tools (1 x left and 1 x right of the installed fitting)
- Facilitates the installation and improves connection quality
- Pipe ovality before re-rounding max. 6% at +20°C (3% at ambient temperature of 0°C)
- Required ringspanner is not included in scope of delivery

¹ Material: Galvanized steel, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 30, 2 x Spindle protection, Transport box

² Material: Aluminium, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 55, 2 x Spindle protection

	d [mm]	d1 [mm]	Code	SP	Weight [kg]	GP	
1	280	450	799 350 688	1	25.000	1	
1	450	630	799 350 689	1	38.000	1	
1	630	900	799 350 690	1	49.000	1	
2	900	1400	799 350 695	1	192.300	1	
2	1400	2000	799 350 696	1	254.200	1	

	Description	L [mm]	B [mm]	H [mm]	
1	Material: Galvanized steel, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 30, 2 x Spindle protection, Transport box	650	290	260	
1	Material: Galvanized steel, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 30, 2 x Spindle protection, Transport box	830	290	260	
1	Material: Galvanized steel, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 30, 2 x Spindle protection, Transport box	1100	290	260	
2	Material: Aluminium, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 55, 2 x Spindle protection	2000	650	600	
2	Material: Aluminium, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 55, 2 x Spindle protection	2650	650	600	



Pipe gauge

- Pipe gauge enables check of pipe ovality on existing pipelines
- Applicable on any user-defined spot within the pipeline
- Strongly recommended for all installations of brach saddles on pipes d315mm and above (193135402-748)
- Plug gauge (799350659) for exact measuring of out-of roundness deviations is not included in scope of delivery
- Material: aluminium

d [mm]	Code	SP	Weight [kg]	GP	Description
315	799 350 660	1	0.271	0	Pipe gauge
355	799 350 661	1	0.255	0	Pipe gauge
400	799 350 662	1	0.257	0	Pipe gauge
450	799 350 663	1	0.245	0	Pipe gauge
500	799 350 664	1	0.334	0	Pipe gauge
560	799 350 665	1	0.324	0	Pipe gauge
630	799 350 666	1	0.319	0	Pipe gauge
710	799 350 667	1	0.310	0	Pipe gauge
800	799 350 668	1	0.311	0	Pipe gauge
900	799 350 669	1	0.425	0	Pipe gauge
1000	799 350 670	1	0.420	0	Pipe gauge
1200	799 350 671	1	0.413	0	Pipe gauge
1400	799 350 672	1	0.410	0	Pipe gauge
1600	799 350 673	1	0.407	0	Pipe gauge
2000	799 350 674	1	0.403	0	Pipe gauge



Pipe gauge set

- Pipe gauge set enables check of pipe ovality on existing pipelines
- Applicable on any user-defined spot within the pipeline
- Strongly recommended for all installations of brach saddles on pipes d315mm and above (193135402-748)
- Scope of delivery: Pipe gauges of listed dimension range; plug gauge (799350659) for exact measuring of out-of roundness deviations
- Each with 1 pipe gauge per main dimension
- Material: aluminium

d [mm]	d1 [mm]	Code	SP	Weight [kg]	GP	Description
315	450	799 350 681	1	0.800	0	Pipe gauge set 1; 4 pipe gauges, 1 plug gauge
500	630	799 350 682	1	1.070	0	Pipe gauge set 2; 3 pipe gauges, 1 plug gauge
710	1000	799 350 683	1	1.610	0	Pipe gauge set 3; 4 pipe gauges, 1 plug gauge
1200	2000	799 350 684	1	1.810	0	Pipe gauge set 4; 4 pipe gauges, 1 plug gauge
315	2000	799 350 685	1	12.200	0	Pipe gauge set complete; 15 pipe gauges, 1 plug gauge, 1 transport box



Single parts for pipe gauge

- Suitable for pipe gauge (799350660 - 685)

d [mm]	d1 [mm]	Code	SP	GP	Description	
		799 350 686	1	0	For exact measuring of out-of roundness deviations	
315	2000	799 350 659	1	0	Empty transport box for all pipe gauge set (1+2+3+4)	

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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 Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.
- 15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.
- 15.3 The Purchaser shall be entitled to 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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