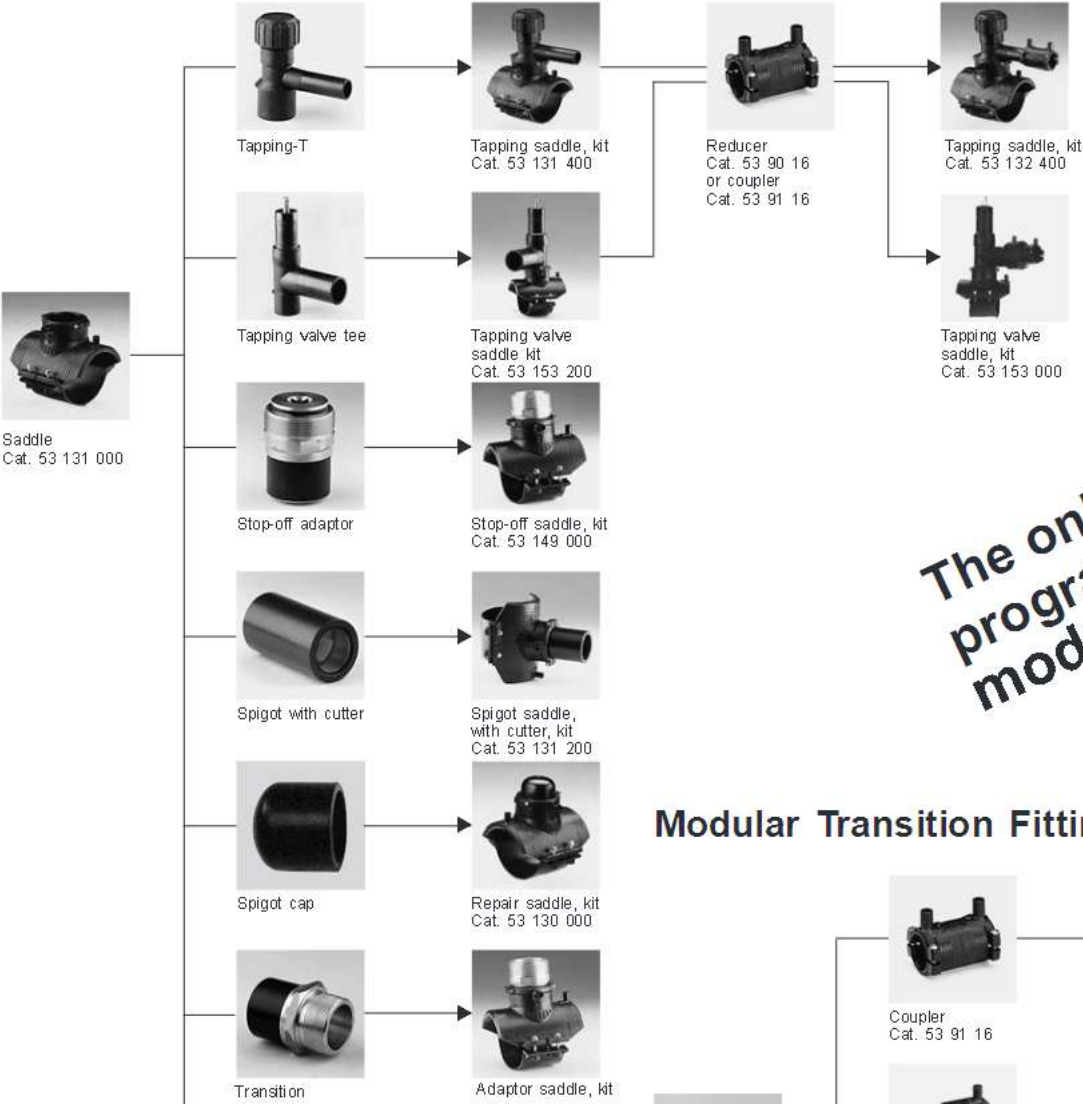


Modular system ELGEF® Plus

Less stock, higher flexibility, more variations – a contradiction? Not with the ELGEF Plus modular system.
It is that easy:

Modular System Saddles



The only programme with a modular system

Modular Transition Fitting System





ELGEF® Plus
Electrofusion System



ELGEF Plus Couplers
ELGEF Plus Electrofusion fittings
ELGEF Plus Transition fittings

Electrofusion couplers and fittings

Technical data

Fusion compatibility

Next to the GF specifications for fusion compatibility the national regulations must be considered. The weakest component defines the max. allowable operating pressure.

All pipes must be in accordance with international regulations. The melt flow rate (MFR) must be between 0.2 and 1.4 g/10 min. National rules and regulations must be adhered to. All data given relates to PE 100 pipes.

Couplers (with integrated clamps from d20 – 63 mm) are used in conjunction with PE pipes and PE spigot fittings. Both socket outlets are fused simultaneously (mono-filament) on couplers ≤ d500 mm. Each socket is fused separately (bi-filament) for couplers of d560 mm and above. Couplers with flex groove design are bi-filament from ≥ d500 mm.

ELGEF Plus - electrofusion couplers SDR11

Pipe ø d [mm]	SDR9 ISO S4	SDR 11 ISO S5	SDR17/ 17.6 ISO S8	SDR 26 ISO S12.5	SDR 33 ISO S16
20	+	+			
25	+	+			
32	+	+			
40	+	+			
50	+	+	+		
63	+	+	+		
75	+	+	+	+	+
90	+	+	+	+	+
110	+	+	+	+	+
125	+	+	+	+	+
140	+	+	+	+	+
160	+	+	+	+	
180	+	+	+	+	
200	+	+	+	+	
225	+	+	+	+	
250	+	+	+	+	
280	+	+	+	+	

ELGEF Plus - electrofusion couplers SDR17

Pipe ø d [mm]	SDR 11 ISO S5	SDR 17/17.6 ISO S8	SDR 26 ISO S12.5	SDR 33 ISO S16
160	+	+	+	+
180	+	+	+	+
200	+	+	+	+
225	+	+	+	+
250	+	+	+	+
280	+	+	+	+
315	+	+	+	+
355	+	+	+	+
400	+	+	+	+
450	+	+	+	+
500	+	+	+	+
560 (Monor- ing)	+	+	+	+
560 (Flex- groove)	+	+	+	
630 (Monor- ing)	+	+	+	+
630 (Flex- groove)	+	+	+	

+ suitable

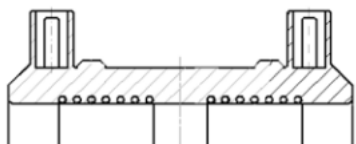
++ conditionally suitable depending on temperature, pressure and medium. Please contact your local GF contact.

ELGEF Plus - electrofusion fittings SDR11

Pipe ø d [mm]	SDR 11 ISO S5	SDR 17/17.6 ISO S8	SDR 26 ISO S12.5	SDR 33 ISO S16
20	+			
25	+			
32	+			
40	+			
50	+	+		

Insertion depth for couplers and fittings

	Insertion depth L1 [mm]	
d [mm]	SDR11	SDR17
20	34	
25	34	
32	36	
40	40	
50	44	
63	48	
75	55	
90	62	
110	72	
125	79	
140	84	
160	90	
180	95	
200	101	
225	110	
250	122	
280	126	
315	132	
355	122	
400	122	
450	160	145
500	178	145
560	193	196
560 (Flex-groove)		193
630	213	221
630 (Flex-groove)		213



Minimum cooling time for couplers and fittings in minutes

d	SDR	Removal of clamp	Pressure test $p \leq 6 \text{ bar}$ $p \leq 18 \text{ bar}$	
[mm]		[min.]	[min.]	[min.]
20-63	11	6	10	30
75-110	11	10	20	60
125-160*	11	20	30	75
180-225**	11	20	45	90
250-315	11	30	60	150
355-400	11	45	90	150
*fittings d 160	11	30	45	90
**fittings d 180	11	30	60	90
450-630	11	60	90	150

p = test pressure

d	SDR	Removal of clamp	Pressure test $p \leq 6 \text{ bar}$ $p \leq 18 \text{ bar}$	
[mm]		[min.]	[min.]	[min.]
125-160	17	20	30	75
180-225	17	20	45	90
250-315	17	30	60	150
355-400	17	45	90	150
450-630	17	60	90	150

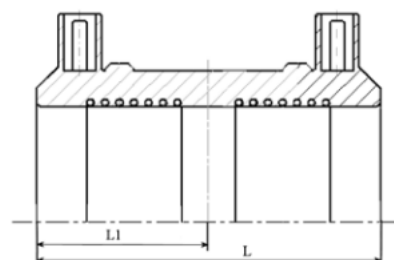
p = test pressure

Overview ELGEF Plus couplers, fittings and transition adaptors

¹ Insertion depth for couplers and fittings

	Insertion depth L1 [mm]	
d [mm]	SDR11	SDR17
20	34	
25	34	
32	36	

250	122
280	126
315	132
355	122
400	122
450	145
500	145
560	196
630	221



² Minimum cooling time for couplers and fittings
in minutes

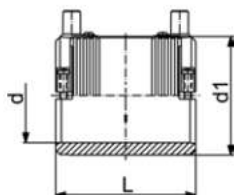
d	SDR	Removal of clamp	Pressure test $p \leq 6 \text{ bar}$ $p \leq 18 \text{ bar}$	
[mm]		[min.]	[min.]	[min.]
20-63	11	6	10	30
75-110	11	10	20	60
125-160*	11	20	30	75
180-225**	11	20	45	90
250-315	11	30	60	150
355-400	11	45	90	150
*fittings d 160	11	30	45	90
**fittings d 180	11	30	60	90

p = test pressure

d	SDR	Removal of clamp	Pressure test $p \leq 6 \text{ bar}$ $p \leq 18 \text{ bar}$	

ELGEF Plus electrofusion fittings

53 91 16



PF 2 51 312 001

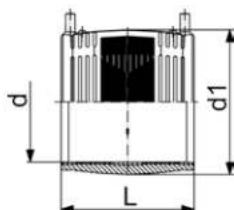
Coupler

With integral pipe fixation

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

d [mm]	Code	GP	kg	d1 [mm]	L [mm]
20	753 911 606	50	0.053	31	70
25	753 911 607	50	0.050	36	70
32	753 911 608	50	0.071	44	72
40	753 911 609	50	0.095	54	80
50	753 911 610	30	0.131	66	88
63	753 911 611	24	0.194	81	96

53 91 16



PF 2 51 312 002

Coupler

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

d [mm]	Code	GP	kg	d1 [mm]	L [mm]
75	753 911 612	12	0.282	96	110
90	753 911 613	10	0.406	113	125
110	753 911 614	5	0.692	138	145
125	753 911 615	5	0.718	154	156
140	753 911 616	5	0.945	172	166
160	753 911 617	6	1.362	196	180
180	753 911 618	5	1.747	219	192
200	753 911 619	4	1.866	244	208
225	753 911 620	3	3.329	273	225
250	753 911 621	2	4.678	304	248
280	753 911 622	1	5.647	340	252
315	753 911 623	1	8.142	382	267
355	753 911 624	1	13.098	432	290
400	753 911 625	1	18.320	487	290

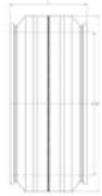
53 91 16



Coupler

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

53 91 16



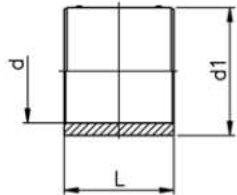
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Coupler

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

d [mm]	Code	GP	kg	d1 [mm]	L [mm]	
710	753 911 650	1	72.450	878	475	
800	753 911 651	1	102.490	988	520	
900	753 911 652	1	137.930	1110	550	

53 91 18



PF 2 51 312 002

Coupler

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

d [mm]	Code	GP	kg	d1 [mm]	L [mm]	
160	753 911 817	6	1.017	186	180	
180	753 911 818	6	1.434	213	192	
200	753 911 819	4	1.726	233	206	
225	753 911 820	3	2.545	261	225	
250	753 911 821	2	4.616	304	248	
280	753 911 822	1	5.606	304	252	
315	753 911 823	1	8.186	382	267	
355	753 911 824	1	9.522	414	290	
400	753 911 825	1	18.000	487	290	
450	753 911 826	1	16.000	522	313	
500	753 911 827	1	22.000	579	343	

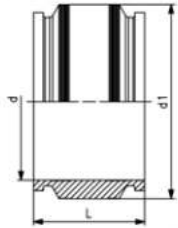
53 91 18



Coupler

- PE 100 SDR 17 (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- 2 separate welding zones
- Installation only with pressure and kit (700 004 501)

53 91 16



PF 2 51 312 006

Coupler

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

d [mm]	Code	GP	kg	d1 [mm]	L [mm]	
560	753 911 848	1	27.109	644	390	
630	753 911 849	1	38.800	723	430	

53 91 18



PF 2 51 312 016

Coupler

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

d [mm]	Code	GP	kg	d1 [mm]	L [mm]	
710	753 911 850	1	49.370	814	475	
800	753 911 851	1	69.180	916	520	
900	753 911 852	1	93.150	1030	550	
1000	753 911 853	1	125.650	1143	600	
1200	753 911 854	1	196.450	1370	650	

53 91 18



Coupler

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

d [mm]	Code	GP	kg	d1 [mm]	L [mm]	
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