GF Piping Systems

Product Range India

PE Systems

Utility system

GF India plant
Ratnagiri India

Utility Range

General Information

Measures, units and abbreviations	
d, d1, d2	Diameter
DN	Nominal diameter
L, L1, L2	Length
H, H1, H2	Height
e, e1, e2	Wall thickness
kg	Weight
S	Pipe series
SDR	Standard dimension ratio

Packaging	
GP	pieces per box
*	Presently not available
-	Product not exist
#	Product on demand order

Working pressure	The pressure rating of Georg Fischer PE-Fittings refers to the calculated values of prEN 12201,ISO 4427,IS 7634 and prEN 1555 considering the total security value. National Regulations and standards have to be observed.
Specification	Georg Fischer Fittings meet the ISO-standards, CEN-standards (respectively draft standards) as well as other national standards.
Approval	The Georg Fischer products are subjected to extensive internal and external tests and are approved by all major institutes and approval authorities (for example: DVGW,WRAS etc.).
General Conditions of Supply	Please find the General Conditions of Supply on the last page.
Works certificates	Works certificates corresponding EN 10204 2.2 will be delivered on request. Works certificates corresponding EN 10204 3.1 B will be delivered on request.
Quality management / Environmental management	Quality management system is well established at Georg Fischer and is continuously improved to satisfy our customers. Georg Fischer Piping Systems are certified according to ISO 9001 as well as ISO 14001 (environmental management).
Technical documentation	For further technical information and assembly instructions we offer you the Georg Fischer "details assembly instructions"
Service, training and consultation	Georg Fischer offers you the possibility to do trainings and extend your knowledge in the piping systems field. Please contact your sales company for further information and registrations.
Your partner	Georg Fischer is a world-wide organisation.

Certificate


bsi.
Certificate of Registration
QUALITY MANAGEMENT SYSTEM - ISO 9001:2015


bsi.
Certificate of Registration
ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015


bsi.
Certificate of Registration
OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM - OHSAS 18001:2007

Georg Fischer Piping Systems Pvt. Ltd.
Ratnagiri 415 639, Maharashtra, India

Certified area

Georg Fischer Piping Systems Private Limited

Factory address

Plot No. C 224, C225, C226 Mirjole,
MIDC Ratnagiri 415 639, Maharashtra, India.
(ISO 9001 : 2015, ISO 14001 : 2015,
OHSAS 45001 : 2018)

Field of activity

GF Piping Systems is a leading supplier of plastic and metal to 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 : 2015 — **Quality Management System**

Holds Certificate No. FM 558952

ISO 14001 : 2015 — **Environmental Management System**

Holds Certificate No. EMS 567657

OHSAS 45001 : 2018 — **Occupational Health and Safety Management System**

Holds Certificate No. OHS 567659

Approvals

GF Piping Systems has always been committed to providing the best quality in products and services. We know that, in more than 100 countries, our solutions are used in vital applications that allow for no failures or unplanned downtimes. Our experts work every day to make sure that you receive the best quality possible. You can trust the products from GF Piping Systems − today and for years to come.

This is expressed in the way we work: quality, safety, and responsibility are implemented in our organization to serve you as well as possible.
GF Piping Systems fulfils the ISO 9001, ISO 14001 and OHSAS 18001 standards for quality, environ-mental, and work safety management. After all, governance and process excellence are essential for quality.

Our products are designed to be safe and easy to install, with lifespans as long as the applications themselves. To ensure this, we subject our products to extensive internal and external tests and reviews. Their outstanding quality is confirmed by the numerous certifications and approvals they have received. These include global and national standards from highly respected organizations and institutions, but also specific customer certifications, as requested.

You will find a selection of product approvals below on this page. Our experts are happy to provide you the certificates you need for your applications and guide you through the applicable systems and standards, as needed. Please contact a GFPiping Systems representative near you.


DVGW-Baumusterprüfzertifikat
DVGW type examination certificate


WRAS
APPROVED MATERIAL

A lifetime of consistent performance

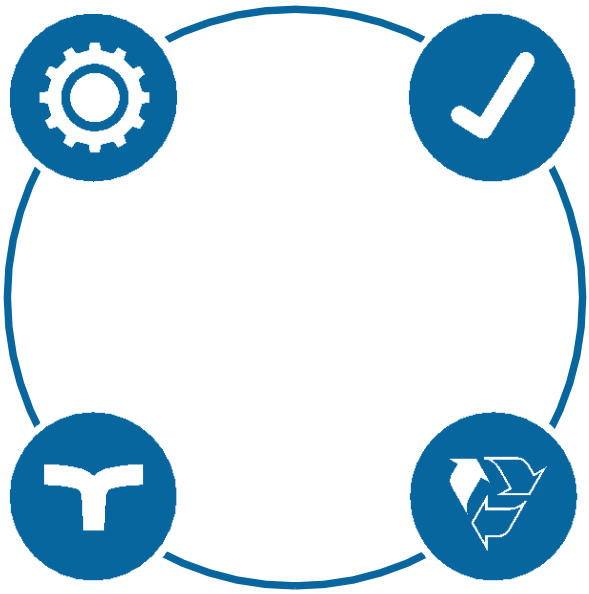
The PE (polyethylene) systems of GF Piping Systems convince with their numerous advantages during their long lasting lifetime. The flexible systems cover different applications even under the most challenging conditions and are comprised of easy, quick to install components with the best cost-performance ratio and 100 years estimated lifetime in utility applications. Not only are they reliable under all circumstances but they also contribute to the world's sustainability by having one of the lowest carbon footprints compared to metal or other plastic systems.

+ Eficient

- Best cost-performance ratio
- Light weight, makes installation faster and transportation easier
- Low installation and maintenance costs
- Suitable for trenchless installation techniques

+ Safe & reliable

- 100 years estimated lifetime in utility applications
- Entirely maintenance free
- High chemical resistance
- Impact and abrasion resistance in all weather conditions



+ Flexible

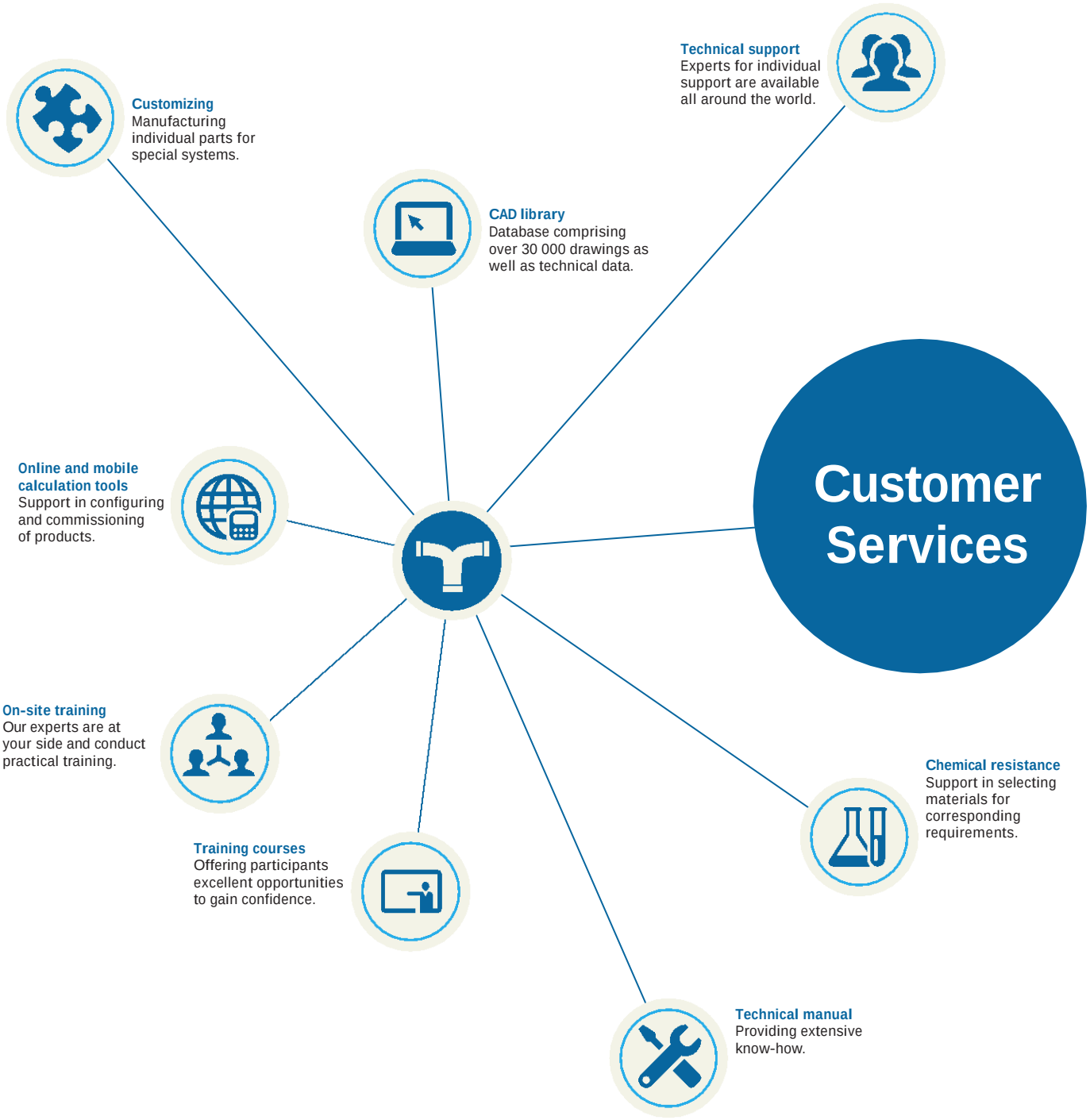
- Suitable for electrofusion, Butt fusion, socket and IR welding
- System solution of fittings up to d2000mm
- Suitable for media between –50 °C up to 60 °C
- Bendable material

+ Sustainable

- Lower carbon footprint compared to metal or other plastic systems
- 100% recyclable

Individual service for your needs

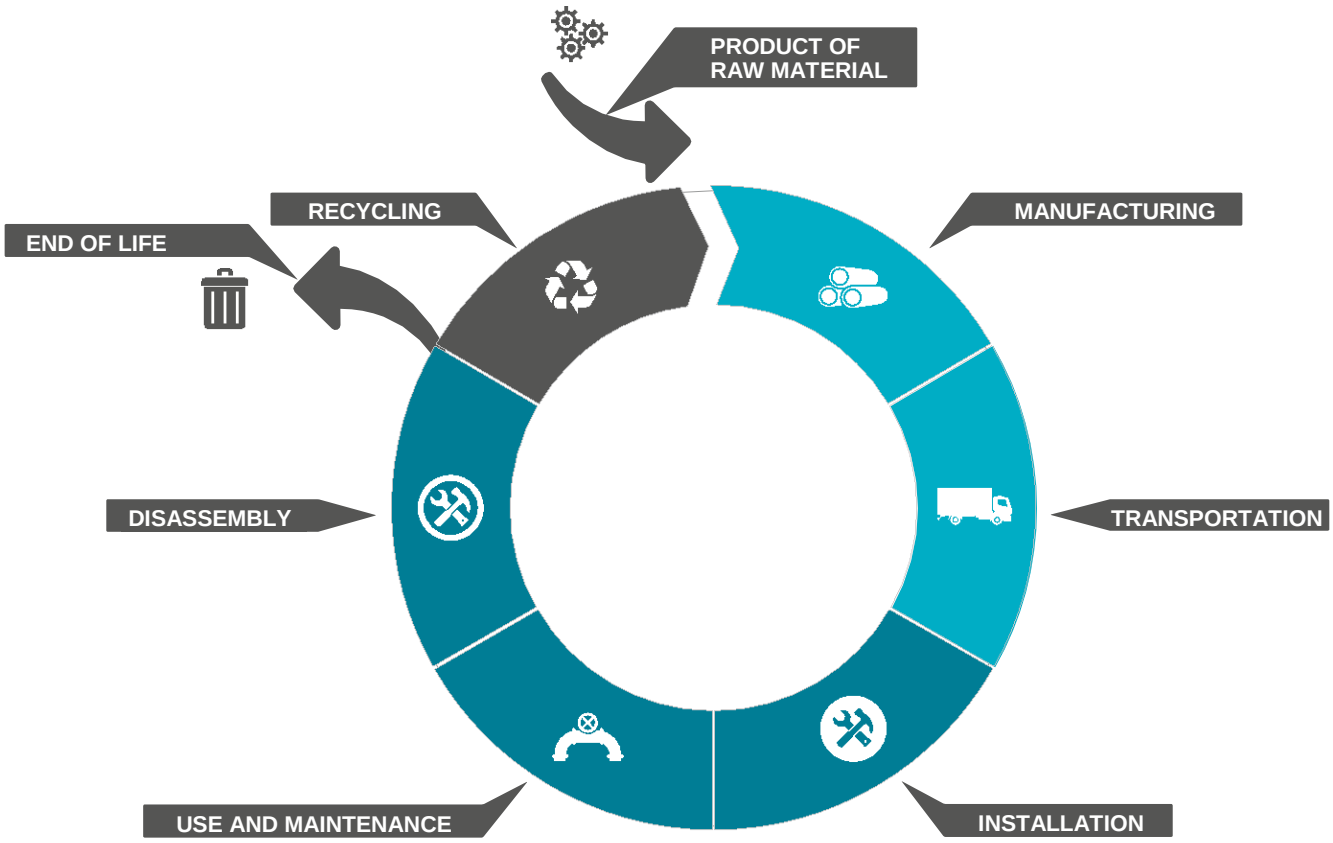
Customer needs are in the center of whatever GF does. From on-site training to adapted design and tailor-made processes - GF Piping Systems provides individual service which fits customers best.



Sustainability

GF Piping Systems incorporates its environmental responsibility into its everyday business activities. Because we understand environmental awareness as one of the corporation‘s core values, all internal structures and processes are geared towards sustainability. We strive to conserve natural resources and work continually towards optimizing the environmental performance of our products and how they are used. Consequently, outstanding material properties and innovative technologies form the basis for our environmentally friendly and energy-saving solutions.

Product Life Cycle



Life Cycle Assessments of GF specific industry systems

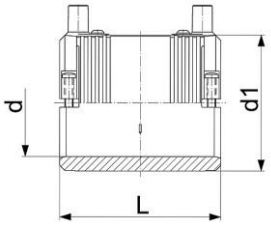
GF Piping Systems proactively performs life cycle assessments to determine the environmental impact of its products. In cooperation with an independent institute, life cycle assessments of selected GF Piping Systems were calculated. The life cycle assessments cover the environmental impact over the whole life cycle.

Reporting

GF began integrating sustainability requirements in its international operations early on by establishing a clearly defined organization and a system of internal reporting. The GF Corporation provides periodic reports on its performance in the area of sustainability. Environmental as well as social data are gathered annually via the Sustainability Information System. With this system, GF surveys its corporate subsidiaries to gather key indicator data in line with the Global Reporting Initiative (GRI). The guidelines of the Global Reporting Initiative lay down requirements for corporate sustainability reporting that are recognized throughout the world.

Coupler

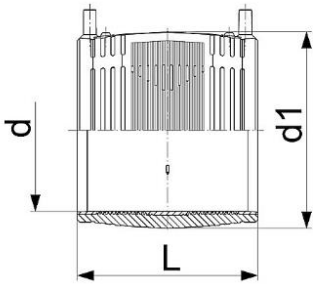
With integral pipe fixation



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop
- With locking screws
- Approvals -: DVGW /WRAS

d (mm)	Code	d1 (mm)	L (mm)	Weight (kg±0.001)	GP
20	**753 911 606E**	31	67	0.040	70
32	**753 911 608E**	44	72	0.070	50
50	**300 212 445**	66	88	0.131	-
63	**753 911 611E**	80	95	0.190	10

Coupler

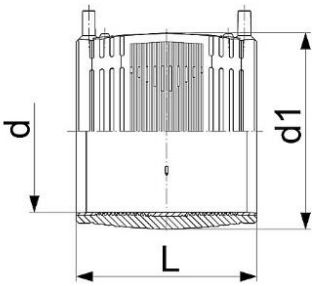


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop up to d160
- Approvals -: DVGW / WRAS

d (mm)	Code	d1 (mm)	L (mm)	Weight (kg±0.001)	GP
75	**300 212 447**	95	110	0.295	*
90	**753 911 613E**	113	125	0.420	10
110	**753 911 614E**	138	145	0.700	6
125	**753 911 615E**	154	156	0.720	5
140	**300 212 451**	172	168	1.050	*
160	**753 911 617E**	196	180	1.380	6
180	**300 212 453**	219	194	1.830	*
200	**300 212 454**	245	208	2.434	*
225	**300 212 455**	273	224	3.192	*
250	**300 212 456**	304	247	4.392	*
280	**300 212 457**	340	252	5.690	*
315	**300 212 458**	382	268	7.438	*

Coupler

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Approvals -: DVGW / WRAS

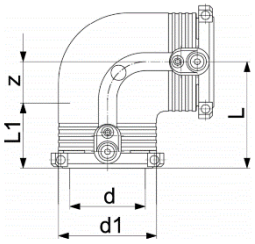


d (mm)	Code	d1 (mm)	L (mm)	Weight (kg±0.001)	GP
180	**300 212 477**	208	194	1.304	*
200	**300 212 478**	231	208	1.732	*
225	**300 212 479**	260	224	2.282	*
250	**300 212 480**	289	247	3.156	*
280	**300 212 481**	323	252	4.088	*
315	**300 212 482**	364	268	5.528	*

Elbow 90°

With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With locking screws
- Approvals -: DVGW / WRAS

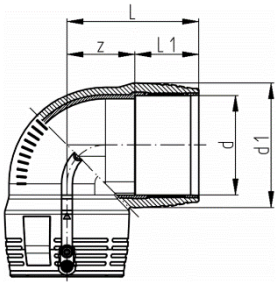


d (mm)	Code	d1 (mm)	L (mm)	L1 (mm)	Z (mm)	Weight (kg±0.001)	GP
20	**300 220 029**	35	54	34	20	0.080	*
32	**300 220 031**	44	53	36	17	0.094	*
63	**300 220 034**	81	81	48	32	0.312	*

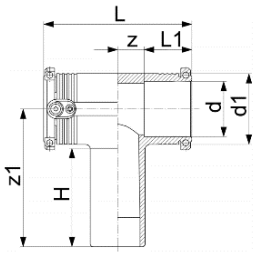
Elbow 90°

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

* Price on request



d (mm)	Code	d1 (mm)	L (mm)	L1 (mm)	Z (mm)	Weight (kg±0.001)	GP
*75	**300 220 035**	97	94	54	40	0.415	*
*90	**300 220 036**	115	122	62	60	0.828	*
*110	**300 220 037**	140	147	72	76	1.224	*
*125	**300 220 038**	160	155	77	68	1.742	*

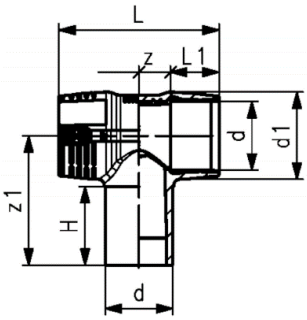


Tee 90° equal

With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With locking screws
- Approvals -: DVGW / WRAS

d (mm)	Code	d1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	H (mm)	Weight (kg±0.001)	GP
20	**300 220 039**	35	88	32	11	92	67	0.085	*
32	**300 220 041**	44	102	34	15	100	74	0.118	*
63	**300 220 044**	81	151	46	28	150	102	0.407	*

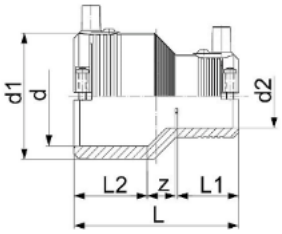


Tee 90° equal

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

* Price on request

d (mm)	Code	d1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	H (mm)	Weight (kg±0.001)	GP
*75	**300 220 045**	97	178	54	35	143	87	0.569	*
90	**300 220 046**	115	205	62	41	161	94	0.891	*
*110	**300 220 047**	140	255	72	56	184	104	1.576	*
125	**300 220 048**	161	276	78	60	207	113	2.212	*



Reducer

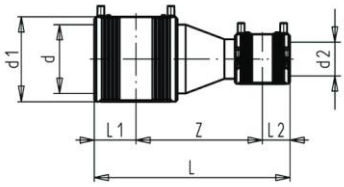
With integral pipe fixation

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

d (mm)	d2 (mm)	Code	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Weight (kg±0.001)	GP
32	20	**753 901 640E**	44	80	33	39	8	0.060	50
63	32	**753 901 656E**	80	105	35	51	19	0.170	10

Reducer (kit)

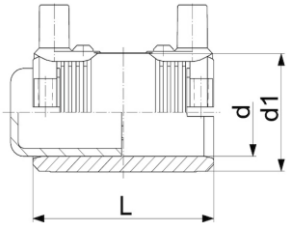
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler and Spigot Reducer
- Approvals -: DVGW / WRAS * Price on request



d (mm)	d2 (mm)	Code	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Weight (kg±0.001)	GP
75	63	**300 211 769**	96	273	55	48	170	0.700	*
90	50	**300 225 188**	113	297	63	44	190	0.861	*
90	63	**300 225 179**	113	301	63	48	190	0.951	*
90	75	**300 211 770**	113	308	63	55	190	1.071	*
*110	63	**300 225 180**	138	326	73	48	205	1.420	*
*110	75	**300 212 337**	138	333	73	55	205	1.496	*
110	90	**300 225 181**	138	340	73	63	205	1.682	*
125	75	**300 225 038**	154	347	78	55	214	1.702	*
125	90	**300 225 182**	154	355	78	63	214	1.845	*
125	110	**300 212 347**	154	365	78	73	214	2.220	*
140	75	**300 225 039**	172	375	83	55	237	2.175	*
140	90	**300 218 789**	172	383	83	63	237	2.340	*
140	110	**300 212 314**	172	393	83	73	237	2.650	*
140	125	**300 218 790**	172	398	83	78	237	2.776	*
160	90	**300 225 183**	196	408	90	63	255	2.970	*
160	110	**300 225 184**	196	418	90	73	255	3.344	*
160	140	**300 212 317**	196	428	90	83	255	3.879	*
200	160	**300 211 165**	244	474	104	90	280	5.714	*

End cap (kit)

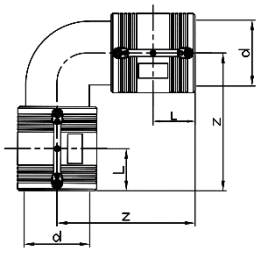
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler
- Approvals -: DVGW / WRAS



d (mm)	Code	d1 (mm)	L (mm)	Weight (kg±0.001)	GP
20	**300 210 102**	31	70	0.063	50
32	**300 210 104**	44	72	0.091	50
63	**300 210 107**	81	96	0.279	15
75	**300 210 108**	96	110	0.478	10
90	**300 210 109**	113	125	0.663	8
110	**300 210 111**	138	145	1.090	4
125	**300 210 112**	154	156	1.345	4
140	**300 212 304**	172	166	1.777	4
160	**300 210 113**	196	180	2.414	3
200	**300 211 432**	244	208	4.279	*

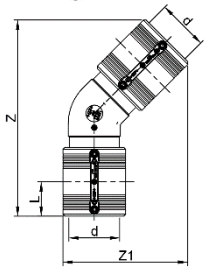
Elbow 90° (kit)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler and Spigot Elbow 90°
- Approvals -: DVGW / WRAS * Price on request



d (mm)	Code	L (mm)	z (mm)	Weight (kg±0.001)	GP
20	**300 225 011**	35	109	0.133	*
63	**300 225 012**	48	163	0.662	*
75	**300 225 013**	55	185	1.004	*
90	**300 225 014**	63	213	1.544	*
110	**300 225 015**	73	238	2.558	*
*140	**300 225 185**	83	277	4.322	*
*160	**300 225 186**	90	300	5.874	*
*180	**300 225 046**	96	328	7.988	*
*200	**300 211 745**	104	357	9.521	*

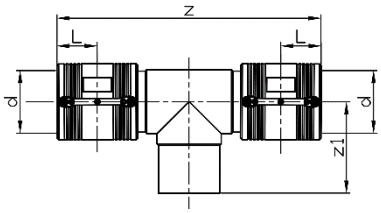
Elbow 45° (kit)



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler and Spigot Elbow 45°
- Approvals -: DVGW / WRAS

d (mm)	Code	L (mm)	z (mm)	z1 (mm)	Weight (kg±0.001)	GP
90	**300 225 187**	63	354	225	1.377	*
140	**300 218 787**	83	480	311	3.686	*

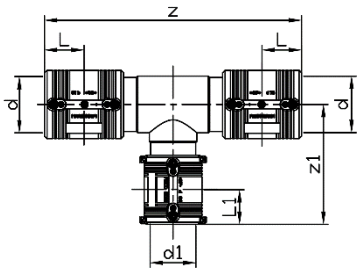
Tee 90° equal (kit)



- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler and Spigot Tee 90° equal
- Approvals -: DVGW / WRAS * Price on request

d (mm)	Code	L (mm)	z (mm)	z1 (mm)	Weight (kg±0.001)	GP
75	**300 222 208**	55	374	132	1.189	*
90	**300 222 209**	63	425	150	1.861	*
110	**300 222 210**	73	475	165	3.012	*
*140	**300 222 211**	83	561	193	5.190	*
*160	**300 225 088**	90	600	210	7.163	*
*180	**300 211 191**	96	652	230	9.674	*
*200	**300 211 207**	104	708	250	13.348	*

Tee 90° reduced (kit)



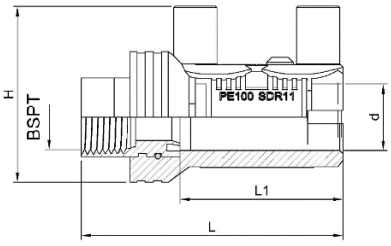
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler and Spigot Tee 90° reduced
- Approvals -: DVGW / WRAS

d (mm)	d1 (mm)	Code	L (mm)	L1 (mm)	z1 (mm)	z (mm)	Weight (kg±0.001)	GP
75	63	**300 220 028**	55	48	166	358	1.300	*

Transition coupler PE to Brass/MSGI/SS304

Female thread (Rp)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Approval -: DVGW / WRAS

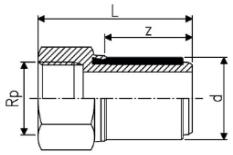


d (mm)	BSPT (inch)	Code MSGI	Code Brass	Code SS304	H (mm)	L (mm)	L1 (mm)	Weight (kg±0.001)	GP
20	½"	**300 210 211**	**300 210 212**	**300 210 213**	54	82	48	0.110	30
32	½"	**300 220 088**	**300 220 089**	**300 220 090**	67	80.5	46.5	0.201	30
32	¾"	**300 211 794**	**300 211 795**	**300 211 796**	67	80.5	46.5	0.180	30
32	1"	**300 211 797**	**300 211 798**	**300 211 799**	67	89	46.5	0.176	30

Transition adaptor PE to Brass/MSGI/SS304

Female thread (Rp)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Coupler and fittings
- Approval -: DVGW / WRAS

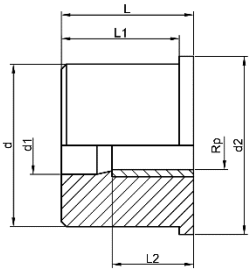


d (mm)	Rp (inch)	Code MSGI	Code Brass	Code SS304	L (mm)	Z (mm)	Weight (kg±0.001)	GP
20	½"	**300 210 192**	**720 820 206**	**300 210 191**	65	32	0.140	48
32	¾"	**300 210 369**	**300 210 197**	**300 210 193**	71	35	0.290	40
32	1"	**300 210 195**	**720 920 208**	**300 210 194**	71	35	0.248	40

PE insert to SS304

Female thread (Rp)

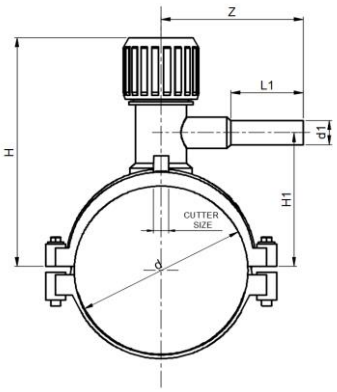
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Monobloc version
- Approval -: DVGW / WRAS



d (mm)	Rp (inch)	Code	d1 (mm)	d2 (mm)	L (mm)	L 1 (mm)	L 2 (mm)	Weight (kg±0.001)	GP
63	½"	**300 210 041**	22.65	69.9	52	46.35	32	0.173	*
63	¾"	**300 210 042**	29.40	69.9	52	46.35	32	0.174	*
63	1"	**300 210 043**	35.65	69.9	52	46.35	32	0.195	*

Monoline tapping saddle with bottom belt

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With Integrated cutter to tap live mains under pressure
- Weld pipe series indicated only
- Limited path fusion indicators
- Approval -: DVGW / WRAS



Cutter Size – 8 mm

d (mm)	d1 (mm)	Code SS304	Code Brass	Dimensions (mm) H	H1	L	L1	Z	Weight (kg±0.001)	GP
32	20	-	**193 281 459**	94	38	100	75	89	0.164	10
50	20	**300 210 620**	-	138	65	145	53	114	0.423	30
63	20	**300 210 625**	-	145	71	175	53	114	0.479	25
75	20	**300 210 633**	-	171	81	175	64	121	0.481	22
90	20	**300 210 641**	-	189	93	175	64	121	0.583	20
110	20	**300 210 649**	-	199	103	175	64	121	0.631	16
125	20	**300 210 657**	-	207	111	175	64	121	0.653	15
140	20	**300 210 971**	-	216	120	175	64	121	0.713	12
160	20	**300 210 665**	-	224	128	175	64	121	0.783	10
180	20	**300 210 673**	-	234	138	175	64	121	0.823	10
200	20	**300 210 681**	-	244	148	175	64	121	0.895	10
225	20	**300 210 689**	-	257	161	175	59	121	1.003	8

Cutter Size – 15 mm

d (mm)	d1 (mm)	Code SS304	Code Brass	Dimensions (mm) H	H1	L	L1	Z	Weight (kg±0.001)	GP
50	20	**300 210 621**	**300 210 881**	138	65	145	53	114	0.435	30
63	20	**300 210 626**	**300 210 884**	145	71	175	53	114	0.490	25
75	20	**300 210 634**	**300 210 887**	171	81	175	64	121	0.492	22
90	20	**300 210 642**	**300 210 890**	189	93	175	64	121	0.594	20
110	20	**300 210 650**	**300 210 893**	199	103	175	64	121	0.642	16
125	20	**300 210 658**	**300 210 896**	207	111	175	64	121	0.664	15
140	20	**300 210 972**	**300 210 899**	216	120	175	64	121	0.724	12
160	20	**300 210 666**	**300 210 902**	224	128	175	64	121	0.794	10
180	20	**300 210 674**	**300 210 905**	234	138	175	64	121	0.834	10
200	20	**300 210 682**	**300 210 908**	244	148	175	64	121	0.906	10
225	20	**300 210 690**	**300 210 911**	257	161	175	59	121	1.010	8

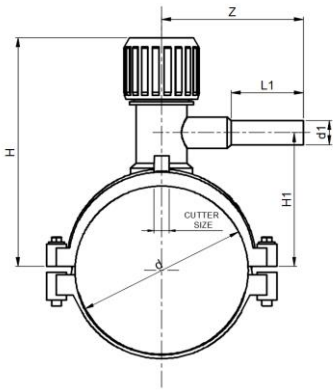
Cutter Size – 20 mm

d (mm)	d1 (mm)	Code SS304	Code Brass	Dimensions (mm) H	H1	L	L1	Z	Weight (kg±0.001)	GP
50	25	**300 210 622**	**300 210 882**	138	65	145	53	114	0.463	30
63	25	**300 210 627**	**300 210 885**	145	71	175	53	114	0.519	25
75	25	**300 210 635**	**300 210 888**	171	81	175	59	121	0.521	22
90	25	**300 210 643**	**300 210 891**	189	93	175	59	121	0.623	20
110	25	**300 210 651**	**300 210 894**	199	103	175	59	121	0.671	16
125	25	**300 210 659**	**300 210 897**	207	111	175	59	121	0.693	15
140	25	**300 210 973**	**300 210 900**	216	120	175	59	121	0.753	12
160	25	**300 210 667**	**300 210 903**	224	128	175	59	121	0.823	16
180	25	**300 210 675**	**300 210 906**	234	138	175	59	121	0.863	10
200	25	**300 210 683**	**300 210 909**	244	148	175	59	121	0.935	8
225	25	**300 210 691**	**300 210 912**	257	161	175	59	121	1.043	8

Table continued on the next page

Cutter Size – 25 mm

d (mm)	d1 (mm)	Code SS304	Code Brass	Dimensions (mm) H	H1	L	L1	Z	Weight (kg±0.001)	GP
50	32	**300 210 624**	**300 210 883**	138	65	145	53	121	0.531	28
63	32	**300 210 629**	**300 210 886**	171	75	175	59	121	0.587	20
75	32	**300 210 637**	**300 210 889**	177	81	175	59	121	0.589	18
90	32	**300 210 645**	**300 210 892**	189	93	175	59	121	0.691	15
110	32	**300 210 653**	**300 210 895**	199	103	175	59	121	0.739	15
125	32	**300 210 661**	**300 210 898**	207	111	175	59	121	0.761	14
140	32	**300 210 975**	**300 210 901**	216	120	175	59	121	0.821	12
160	32	**300 210 669**	**300 210 904**	224	128	175	59	121	0.891	16
180	32	**300 210 677**	**300 210 907**	234	138	175	59	121	0.931	8
200	32	**300 210 685**	**300 210 910**	244	148	175	59	121	1.003	14
225	32	**300 210 693**	**300 210 913**	257	161	175	59	121	1.111	6



Cutter Size – 25 mm

d (mm)	d1 (mm)	Code SS304	Code Brass	Dimensions (mm) H	H1	L	L1	Z	Weight (kg±0.001)	GP
63	40	**300 210 630**	**300 210 914**	171	75	175	59	121	0.629	20
75	40	**300 210 638**	**300 210 915**	177	81	175	59	121	0.631	16
90	40	**300 210 646**	**300 210 916**	189	93	175	59	121	0.733	20
110	40	**300 210 654**	**300 210 917**	199	103	175	59	121	0.781	15
125	40	**300 210 662**	**300 210 918**	207	111	175	59	121	0.803	12
140	40	**300 210 976**	**300 210 919**	216	120	175	59	121	0.863	10
160	40	**300 210 670**	**300 210 920**	224	128	175	59	121	0.933	10
180	40	**300 210 678**	**300 210 921**	234	138	175	59	121	0.997	8
200	40	**300 210 686**	**300 210 922**	244	148	175	59	121	1.045	10
225	40	**300 210 694**	**300 210 923**	257	161	175	59	121	1.153	6

Cutter Size – 25 mm

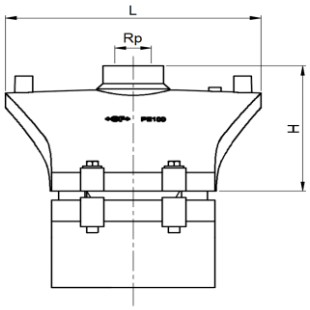
d (mm)	d1 (mm)	Code SS304	Code Brass	Dimensions (mm) H	H1	L	L1	Z	Weight (kg±0.001)	GP
63	50	**300 210 631**	**300 210 924**	171	75	175	62	131	0.674	18
75	50	**300 210 639**	**300 210 925**	177	81	175	62	131	0.676	16
90	50	**300 210 647**	**300 210 926**	189	93	175	62	131	0.778	14
110	50	**300 210 655**	**300 210 927**	199	103	175	62	131	0.826	14
125	50	**300 210 663**	**300 210 928**	207	111	175	62	131	0.848	12
140	50	**300 210 977**	**300 210 929**	216	120	175	62	131	0.908	10
160	50	**300 210 671**	**300 210 930**	224	128	175	62	131	0.978	8
180	50	**300 210 679**	**300 210 931**	234	138	175	62	131	1.018	8
200	50	**300 210 687**	**300 210 932**	244	148	175	62	131	1.090	6
225	50	**300 210 695**	**300 210 933**	257	161	175	62	131	1.198	5

Cutter Size – 25 mm

d (mm)	d1 (mm)	Code SS304	Code Brass	Dimensions (mm) H	H1	L	L1	Z	Weight (kg±0.001)	GP
63	63	**300 210 632**	**300 210 934**	171	75	175	64	139	0.724	18
75	63	**300 210 640**	**300 210 935**	177	81	175	64	139	0.726	15
90	63	**300 210 648**	**300 210 936**	189	93	175	64	139	0.828	14
110	63	**300 210 656**	**300 210 937**	199	103	175	64	139	0.876	12
125	63	**300 210 664**	**300 210 938**	207	111	175	64	139	0.898	12
140	63	**300 210 978**	**300 210 939**	216	120	175	64	139	0.958	10
160	63	**300 210 672**	**300 210 940**	224	128	175	64	139	1.028	15
180	63	**300 210 680**	**300 210 941**	234	138	175	64	139	1.068	14
200	63	**300 210 688**	**300 210 942**	244	148	175	64	121	1.140	5
225	63	**300 210 696**	**300 210 943**	257	161	175	64	139	1.248	5

Monoline female threaded (DTS) saddle with bottom belt

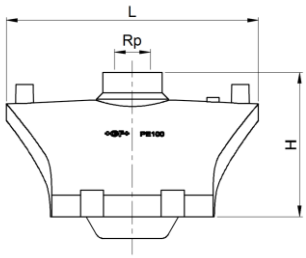
- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Weld pipe series indicated only
- Limited path fusion indicators
- Female thread -: ISO 7 / SS304
- Approval -: WRAS



d (mm)	Code ½"	Code ¾"	Code 1"	H (mm)	L (mm)	Weight (kg±0.001)	GP
50	**300 210 846**	**300 210 847**	**300 210 848**	44	145	0.306	30
63	**300 210 849**	**300 210 850**	**300 210 851**	51	175	0.352	30
75	**300 210 852**	**300 210 853**	**300 210 854**	57	175	0.376	25
90	**300 210 855**	**300 210 856**	**300 210 857**	62	175	0.432	20
110	**300 210 858**	**300 210 859**	**300 210 860**	74	175	0.530	25
125	**300 210 861**	**300 210 862**	**300 210 863**	85	175	0.556	25
140	**300 210 864**	**300 210 865**	**300 210 866**	97	175	0.657	20
160	**300 210 867**	**300 210 868**	**300 210 869**	99	175	0.662	20
180	**300 210 870**	**300 210 871**	**300 210 872**	109	175	0.756	15
200	**300 210 873**	**300 210 874**	**300 210 875**	121	175	0.786	10
225	**300 210 876**	**300 210 877**	**300 210 878**	131	175	0.866	10

Monoline top load female threaded (DTS) saddle without bottom belt

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Weld pipe series indicated only
- Limited path fusion indicators
- Female thread -: ISO 7 / SS304
- Approval -: WRAS

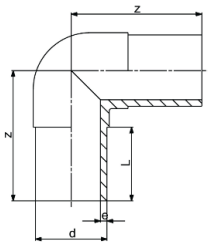


d (mm)	Code ½"	Code ¾"	Code 1"	H (mm)	L (mm)	Weight (kg±0.001)	GP
50	**300 210 815**	**300 210 816**	**300 210 817**	44	145	0.215	35
63	**300 210 818**	**300 210 819**	**300 210 820**	51	175	0.260	30
75	**300 210 821**	**300 210 822**	**300 210 823**	57	175	0.276	20
90	**300 210 824**	**300 210 825**	**300 210 826**	62	175	0.356	30
110	**300 210 827**	**300 210 828**	**300 210 829**	74	175	0.376	25
125	**300 210 830**	**300 210 831**	**300 210 832**	85	175	0.446	25
140	**300 210 994**	**300 210 995**	**300 210 996**	97	175	0.460	22
160	**300 210 833**	**300 210 834**	**300 210 835**	99	175	0.512	25
180	**300 210 836**	**300 210 837**	**300 210 838**	109	175	0.557	25
200	**300 210 839**	**300 210 840**	**300 210 841**	121	175	0.602	20
225	**300 210 842**	**300 210 843**	**300 210 844**	131	175	0.696	15

Elbow 90° PE 100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Approval -: WRAS

* Price on request

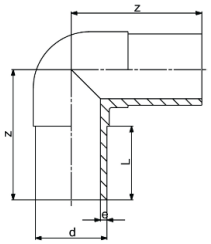


d (mm)	Code	z (mm)	L (mm)	e (mm)	Weight (kg±0.001)
20	**300 220 110**	75	52	3.0	0.027
63	**300 220 115**	115	65	5.8	0.274
75	**300 220 116**	130	72	6.8	0.414
90	**300 220 117**	150	81	8.2	0.704
110	**300 220 118**	165	86	10.0	1.158
*140	**300 220 120**	194	92	12.7	2.222
*160	**300 220 121**	210	102	14.6	3.100
*180	**300 220 122**	232	107	16.4	4.328
*200	**300 220 123**	253	117	18.2	5.739

Elbow 90° PE 100 SDR17

- Long spigot version
- 5 bar Gas / 10 bar Water
- Approval -: WRAS

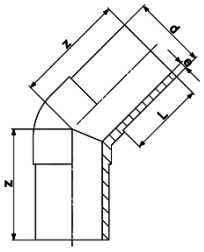
* Price on request



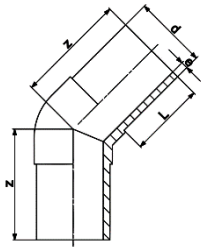
d (mm)	Code	z (mm)	L (mm)	e (mm)	Weight (kg±0.001)
*90	**300 220 426**	150	81	5.4	0.543
*110	**300 220 427**	165	86	6.6	0.876
*140	**300 220 429**	194	92	8.3	1.640
*160	**300 220 430**	210	102	9.5	2.385
*180	**300 220 431**	232	107	10.7	3.205
*200	**300 220 432**	253	117	11.9	4.298

Elbow 45° PE 100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Approval -: WRAS



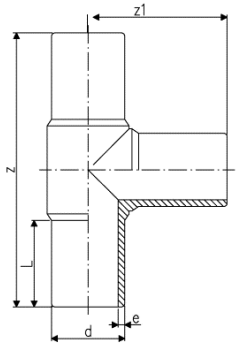
d (mm)	Code	z (mm)	L (mm)	e (mm)	Weight (kg±0.001)
90	**300 220 135**	124	81	8.2	0.565
140	**300 220 138**	164	120	12.7	1.796



Elbow 45° PE 100 SDR17

- Long spigot version
- 5 bar Gas / 10 bar Water
- Approval -: WRAS * Price on request

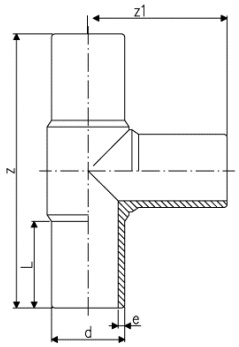
d (mm)	Code	z (mm)	L (mm)	e (mm)	Weight (kg±0.001)
*90	**300 220 444**	124	81	5.4	0.411
*140	**300 220 447**	164	120	8.3	1.259



Tee 90° equal PE 100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Machined with welded pipes
- Approval -: WRAS * Price on request

d (mm)	Code	z (mm)	z1 (mm)	L (mm)	e (mm)	Weight (kg±0.001)
75	**300 220 152**	264	132	72	6.8	0.599
90	**300 220 153**	300	150	81	8.2	1.021
110	**300 220 154**	330	165	86	10.0	1.612
*140	**300 220 156**	393	193	92	12.7	3.090
*160	**300 220 157**	420	210	102	14.6	4.403
*180	**300 220 158**	460	230	107	16.4	6.014
*200	**300 220 159**	500	250	117	18.2	8.480



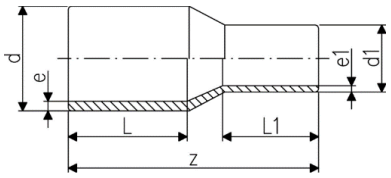
Tee 90° equal PE 100 SDR17

- Long spigot version
- 5 bar Gas / 10 bar Water
- Machined with welded pipes
- Approval -: WRAS * Price on request

d (mm)	Code	z (mm)	z1 (mm)	L (mm)	e (mm)	Weight (kg±0.001)
*90	**300 220 462**	300	150	81	5.4	0.777
*110	**300 220 463**	330	165	86	6.6	1.231
*140	**300 220 465**	393	193	92	8.3	2.202
*160	**300 220 466**	420	210	102	9.5	3.201
*180	**300 220 467**	460	230	107	10.7	4.287
*200	**300 220 468**	500	250	117	11.9	5.889

Reducer PE 100 SDR11

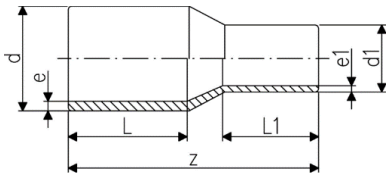
- Long spigot version
- 10 bar Gas / 16 bar Water
- Approval -: WRAS * Price on request



d (mm)	d1 (mm)	Code	z (mm)	L (mm)	L1 (mm)	e (mm)	e1 (mm)	Weight (kg±0.001)
75	63	**300 220 164**	170	72	65	6.8	5.8	0.209
90	50	**300 220 165**	190	85	62	8.2	4.6	0.289
90	63	**300 220 166**	190	85	65	8.2	5.8	0.316
90	75	**300 220 167**	190	85	72	8.2	6.8	0.330
*110	63	**300 220 168**	205	85	65	10.0	5.8	0.487
*110	75	**300 220 169**	205	85	72	10.0	6.8	0.501
110	90	**300 220 170**	205	85	81	10.0	8.2	0.549
125	75	**300 220 172**	214	90	75	11.4	6.8	0.667
125	90	**300 220 173**	214	90	85	11.4	8.2	0.683
125	110	**300 220 174**	214	90	85	11.4	10.0	0.775
140	75	**300 220 175**	237	100	75	12.7	6.8	0.910
140	90	**300 220 176**	237	100	85	12.7	8.2	0.954
140	110	**300 220 177**	237	100	85	12.7	10.0	0.977
140	125	**300 220 178**	237	100	90	12.7	11.4	1.078
160	90	**300 220 179**	255	110	85	14.6	8.2	1.164
160	110	**300 220 180**	255	110	85	14.6	10.0	1.239
160	140	**300 220 182**	255	110	100	14.6	12.7	1.522
200	160	**300 220 188**	280	120	110	18.2	14.6	2.435

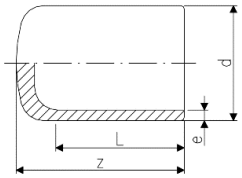
Reducer PE 100 SDR17

- Long spigot version
- 5 bar Gas / 10 bar Water
- Approval -: WRAS * Price on request



d (mm)	d1 (mm)	Code	z (mm)	L (mm)	L1 (mm)	e (mm)	e1 (mm)	Weight (kg±0.001)
*90	63	**300 220 493**	190	85	65	5.4	3.8	0.224
*90	75	**300 220 494**	190	85	72	5.4	4.5	0.234
*110	63	**300 220 495**	205	85	65	6.6	3.8	0.326
*110	90	**300 220 497**	205	85	81	6.6	5.4	0.333
*125	90	**300 220 500**	214	90	85	7.4	5.4	0.461
*125	110	**300 220 501**	214	90	85	7.4	6.6	0.507
*140	75	**300 220 502**	237	100	75	8.3	4.5	0.560
*140	90	**300 220 503**	237	100	85	8.3	5.4	0.642
*140	110	**300 220 504**	237	100	85	8.3	6.6	0.715
*140	125	**300 220 505**	237	100	90	8.3	7.4	0.754
*160	90	**300 220 506**	255	110	85	9.5	5.4	0.752
*160	110	**300 220 507**	255	110	85	9.5	6.6	0.930
*160	140	**300 220 509**	255	110	100	9.5	8.3	0.995
*200	160	**300 220 516**	280	120	110	11.9	9.5	1.664

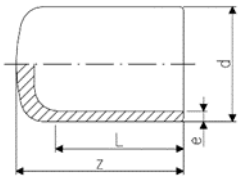
Cap PE 100 SDR11



- Long spigot version
- 10 bar Gas / 16 bar Water
- Approval -: WRAS

d (mm)	Code	z (mm)	L (mm)	e (mm)	Weight (kg±0.001)
20	**300 220 070**	49	46	3.0	0.010
25	**300 220 071**	51	48	3.0	0.015
32	**300 220 072**	53	50	3.0	0.016
63	**300 220 075**	64	57	6.5	0.086
75	**300 220 076**	80	73	6.8	0.146
90	**300 220 077**	90	82	8.2	0.240
110	**300 220 078**	98	88	10.0	0.373
125	**300 220 079**	105	90	11.4	0.546
140	**300 220 080**	115	98	12.7	0.727
160	**300 220 081**	120	100	14.6	1.034
200	**300 220 083**	138	115	18.2	1.845

Cap PE 100 SDR17



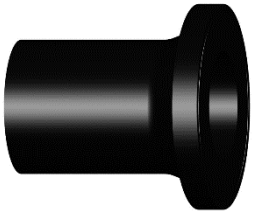
- Long spigot version
- 5 bar Gas / 10 bar Water
- Approval -: WRAS

* Price on request

d (mm)	Code	z (mm)	L (mm)	e (mm)	Weight (kg±0.001)
*63	**300 220 478**	64	57	3.8	0.058
*75	**300 220 479**	80	73	4.5	0.105
*90	**300 220 480**	90	82	5.4	0.214
*110	**300 220 481**	98	88	6.6	0.272
*125	**300 220 482**	105	90	7.4	0.487
*140	**300 220 483**	115	98	8.3	0.481
*160	**300 220 484**	120	100	9.5	0.920
*200	**300 220 486**	138	115	11.9	1.687

Flange adaptor PE 100 SDR11

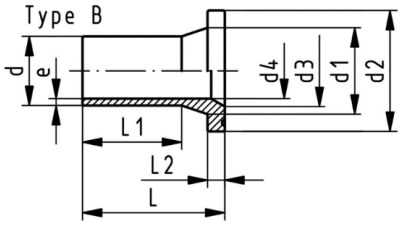
Combined jointing face: flat and serrated



Model :

- Long spigot version
- 10 bar Gas / 16 bar Water
- Approval -: WRAS
- Machined / extended
- Type B: with chamfer
- Suitable for plastic butterfly valves type **567/578/565** up to DN100.
- Suitable for metal butterfly valves type **038/039/044/065** up to DN100.
- Please refer to the Online Tool: Perfect Flange Connection - GF Piping Systems (gfps.com)

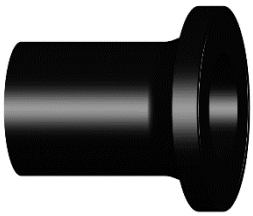
* Price on request



d (mm)	DN (mm)	Code	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	Weight (kg±0.001)
63	50	**300 220 097**	75	102	55	51	0.187
75	65	**300 220 098**	89	122	66	61	0.314
90	80	**300 220 099**	105	138	78	73	0.471
110	100	**300 220 100**	125	158	100	90	0.718

d (mm)	DN (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type
63	50	98	69	14	5.8	B
75	65	125	89	16	6.8	B
90	80	140	103	17	8.2	B
110	100	160	114	18	10.0	B

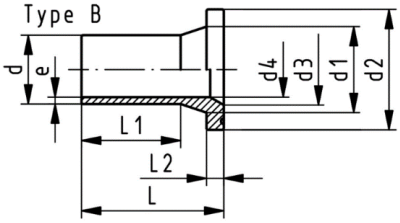
Flange adaptor PE 100 SDR17
Combined jointing face: flat and serrated



Model :

- Long spigot version
- 5 bar Gas / 10 bar Water
- Approval -: WRAS
- Machined / extended
- Type B: with chamfer
- Suitable for plastic butterfly valves type **567/578/565** up to DN110.
- Suitable for metal butterfly valves type **038/039/044/065** up to DN110.
- Please refer to the Online Tool: Perfect Flange Connection - GF Piping Systems (gfps.com)

* Price on request

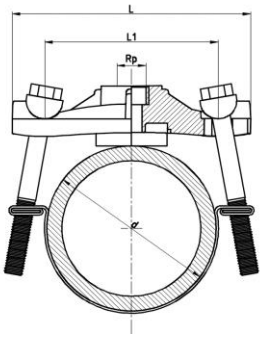


d (mm)	DN (mm)	Code	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	Weight (kg±0.001)
*63	50	**300 220 216**	75	102	55	51	0.168
*75	65	**300 220 217**	89	122	66	61	0.260
*90	80	**300 220 218**	105	138	78	73	0.367
*110	100	**300 220 219**	125	158	100	90	0.571

d (mm)	DN (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type
63	50	98	69	14	3.8	B
75	65	125	89	16	4.5	B
90	80	140	103	17	5.4	B
110	100	160	114	18	6.6	B

PPGF composite strap saddle female thread (Rp)

- **Use** -: Drinking water and waste water system
- Material -: Polypropylene reinforced
- Temp -: - 5°C to + 50°C
- Seal type -: EPDM Rubber seal (Class70)
- Female thread -: ISO 7 / SS304
- Belt type -: Bottom belt with NBR protection rubber

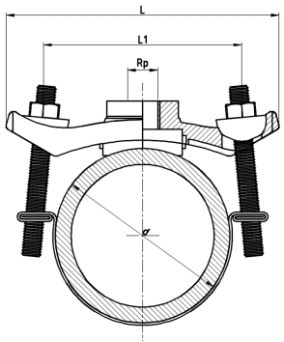


d (mm)	Code ½"	Code ¾"	L (mm)	L1 (mm)	Weight (kg±0.001)	GP
90	**300 216 502**	**300 216 505**	154	112	0.485	10
110	**300 216 503**	**300 216 506**	154	112	0.590	8
160	**300 216 504**	**300 216 507**	154	112	0.700	12

Ductile cast iron saddle female thread (Rp)

- **Use** -: Drinking water and waste water system
- Temp -: - 5°C to + 50°C
- Hardness -: Class70
- Seal type -: EPDM Rubber seal
- Female thread -: ISO 7
- Belt type -: Bottom belt with NBR protection rubber

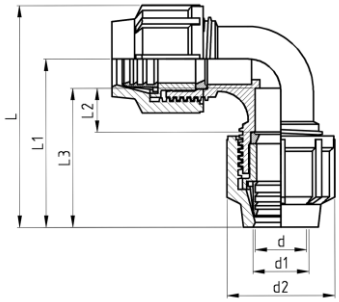
d (Inch)	Code ½"	Code ¾"	Code 1"	Code 1 ¼"	½" to 1 ¼" L (mm)	½" to 1 ¼" L1 (mm)	2" & 2 ½" L (mm)	2" & 2 ½" L1 (mm)	Weight (kg±0.001)	GP
3"	**300 216 621**	**300 216 624**	**300 216 627**	**300 216 615**	172.5	122.5	-	-	1.490	4
4"	**300 216 622**	**300 216 625**	**300 216 628**	**300 216 616**	172.5	122.5	-	-	1.550	4
6"	**300 216 623**	**300 216 626**	**300 216 629**	**300 216 617**	172.5	122.5	190	136	2.340	4
8"	**300 216 630**	**300 216 633**	**300 216 636**	**300 216 618**	172.5	122.5	190	136	2.460	4
10"	**300 216 631**	**300 216 634**	**300 216 637**	**300 216 619**	172.5	122.5	190	136	2.560	4
12"	**300 216 632**	**300 216 635**	**300 216 638**	**300 216 620**	172.5	122.5	190	136	2.750	4



d (Inch)	Code 1 ½"	Code 2"	Code 2 ½"	½" to 1 ½" L (mm)	½" to 1 ½" L1 (mm)	2" & 2 ½" L (mm)	2" & 2 ½" L1 (mm)	Weight (kg±0.001)	GP
6"	**300 216 653**	**300 216 654**	**300 216 655**	172.5	122.5	190	136	2.340	4
8"	**300 216 647**	**300 216 650**	**300 216 656**	172.5	122.5	190	136	2.460	4
10"	**300 216 648**	**300 216 651**	**300 216 657**	172.5	122.5	190	136	2.560	4
12"	**300 216 649**	**300 216 652**	**300 216 658**	172.5	122.5	190	136	2.750	4

90° Elbow

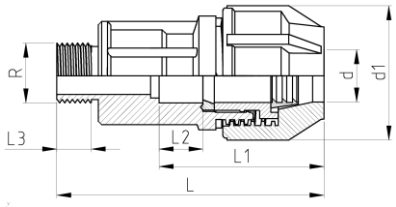
Both side compression 90° elbow



- Active sealing system (With thrust ring)
- Installation without disassembling
- Suitable for PE pipes
- Water PN16
- Material -: PP
- Gasket -: EPDM Quality for drinkable water
- Colour -: Blue – black
- Approval -: WRAS

d (mm)	Code	d1 (mm)	d2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Weight (kg±0.001)	GP
20	**300 211 101**	22	46	98	71	19	59	0.080	50
25	**300 211 102**	28	57	108	77	18	61	0.120	30
32	**300 211 103**	34	66	124	88	19	68	0.180	20

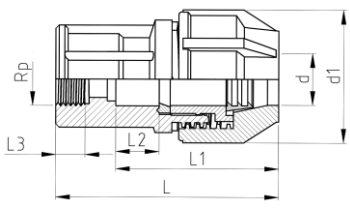
Male adaptor with threaded metal offtake



- Active sealing system (With thrust ring)
- Installation without disassembling
- Suitable for PE and PEX – A pipes
- Water PN16
- Material -: PP
- Gasket -: EPDM Quality for drinkable water
- Male thread -: ISO 7 / SS304
- Colour -: Blue – black
- Approval -: WRAS

d (mm)	R (inch)	Code	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Weight (kg±0.001)	GP
20	½"	**300 211 060**	47	92	59	16	12	0.070	40
25	¾"	**300 211 061**	56	99	65	18	13	0.110	50
32	1"	**300 211 062**	63	108	69	18	14	0.150	30

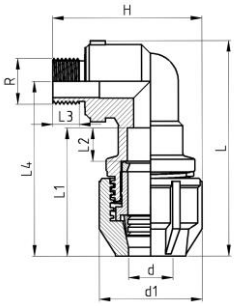
Female adaptor with threaded metal offtake



- Active sealing system (With thrust ring)
- Installation without disassembling
- Suitable for PE and PEX – A pipes
- Water PN16
- Material -: PP
- Gasket -: EPDM Quality for drinkable water
- Female thread -: ISO 7 / SS304
- Colour -: Blue – black
- Approval -: WRAS

d (mm)	Rp (inch)	Code	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Weight (kg±0.001)	GP
20	½"	**300 211 050**	47	81	59	16	10	0.064	40
25	¾"	**300 211 051**	56	87	65	18	11	0.100	50
32	1"	**300 211 052**	63	92	69	18	16	0.150	30

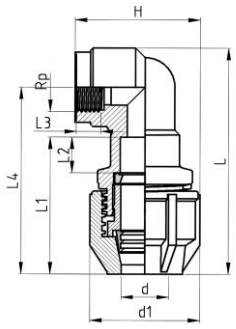
90° Male elbow with threaded metal offtake



- Active sealing system (With thrust ring)
- Installation without disassembling
- Suitable for PE and PEX – A pipes
- Water PN16
- Material -: PP
- Gasket -: NBR Quality for drinkable water
- Male thread -: ISO 7 / SS304
- Colour -: Blue – black
- Approval -: WRAS

d (mm)	R (inch)	Code	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H (mm)	Weight (kg±0.001)	GP
20	½"	**300 211 070**	47	98	58	15	11	79	63	0.078	40
25	½"	**300 211 071**	56	109	65	19	12	90	79	0.110	50
25	¾"	**300 211 072**	56	109	65	19	12	90	79	0.140	50
32	1"	**300 211 073**	63	126	71	20	13	106	82	0.200	30

90° Female elbow with threaded metal offtake

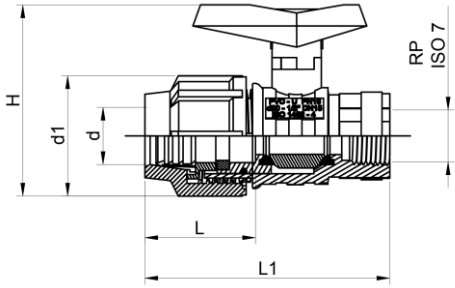


- Active sealing system (With thrust ring)
- Installation without disassembling
- Suitable for PE and PEX – A pipes
- Water PN16
- Material -: PP
- Gasket -: NBR Quality for drinkable water
- Female thread -: ISO 7 / SS304
- Colour -: Blue – black
- Approval -: WRAS

d (mm)	Rp (inch)	Code	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H (mm)	Weight (kg±0.001)	GP
20	½"	**300 211 090**	47	95	58	15	9	79	50	0.073	40
25	½"	**300 211 091**	56	109	65	19	11	90	61	0.098	50
25	¾"	**300 211 092**	56	109	65	19	11	90	61	0.110	50
32	1"	**300 211 093**	63	126	71	20	12	106	66	0.160	30

PVC – U Ball valve with female threaded plastic offtake (HSC)

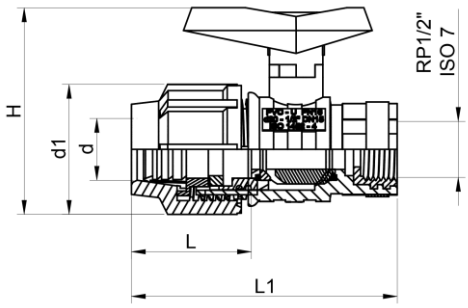
- Water PN16
- Suitable for -: PE pipes
- Material -: PVC – U
- Female thread -: ISO 7 (parallel)
- Gasket -: O - ring
- Colour -: Blue – black
- Approval -: WRAS



d (mm)	Rp (inch)	Code	d1 (mm)	L (mm)	L1 (mm)	H (mm)	Weight (kg±0.001)	GP
20	½"	**300 212 693**	46.15	42.6	94.35	73.35	0.108	40
25	¾"	**300 211 789**	56.35	52.0	115.25	89.55	0.190	xx
32	1"	**300 211 790**	66.20	58.3	133.25	105.95	0.295	xx

PVC – U Ball valve with female threaded metal offtake (HSC)

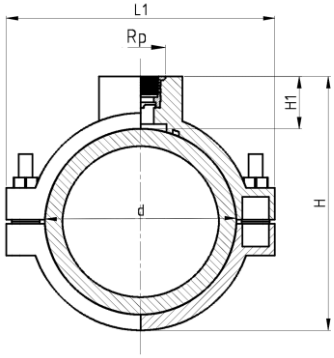
- Water PN16
- Suitable for -: PE pipes
- Material -: PVC – U
- Female thread -: ISO 7 (parallel)
- Gasket -: O - ring
- Colour -: Blue – black
- Approval -: WRAS
- # -: Product on demand order



d (mm)	Rp (inch)	Code	d1 (mm)	L (mm)	L1 (mm)	H (mm)	Weight (kg±0.001)	GP
20	½"	**300 212 692**	46.15	42.6	94.35	73.35	0.140	40

PP Clamp saddle with female threaded single outlet

- Water PN16
- Suitable for PE and PVC Pipes
- Female thread -: ISO 7 (parallel) / SS304
- Material -: PP
- Gasket -: O – ring with flat lip (EPDM)
- Bolt and nut -: Galvanized / SS304 / SS316
- Colour -: Blue
- Approval -: WRAS

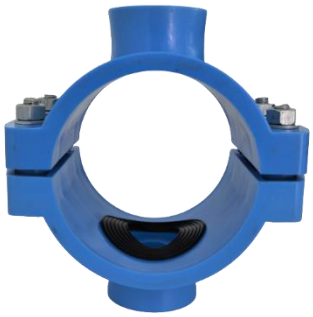


d (mm)	Galvanized Code Rp (inch) ½"	¾"	1"	L (mm)	L1 (mm)	H (mm)	H1 (mm)	Weight (kg±0.001)	GP
63	**300 218 508**	**300 218 509**	**300 218 510**	61	102	96	18	0.250	30
75	**300 218 511**	**300 218 512**	**300 218 513**	78	124	108	19.5	0.310	25
90	**300 218 514**	**300 218 515**	**300 218 516**	86	137	122	19.5	0.380	25
110	**300 218 517**	**300 218 518**	**300 218 519**	98	154	143	18	0.440	30
125	**300 218 520**	**300 218 521**	**300 218 522**	110	174	158	20	0.730	25
140	**300 218 523**	**300 218 524**	**300 218 525**	118	194	173	19.5	0.790	25
160	**300 218 526**	**300 218 527**	**300 218 528**	124	214	194	20	0.850	20

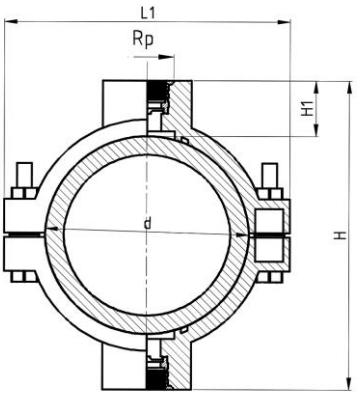
d (mm)	SS304 Code Rp (inch) ½"	¾"	1"	L (mm)	L1 (mm)	H (mm)	H1 (mm)	Weight (kg±0.001)	GP
63	**300 211 601**	**300 211 602**	**300 211 603**	61	102	96	18	0.250	30
75	**300 211 604**	**300 211 605**	**300 211 606**	78	124	108	19.5	0.310	25
90	**300 211 607**	**300 211 608**	**300 211 609**	86	137	122	19.5	0.380	25
110	**300 211 610**	**300 211 611**	**300 211 612**	98	154	143	18	0.440	30
125	**300 211 613**	**300 211 614**	**300 211 615**	110	174	158	20	0.730	25
140	**300 211 616**	**300 211 617**	**300 211 618**	118	194	173	19.5	0.790	25
160	**300 211 619**	**300 211 620**	**300 211 621**	124	214	194	20	0.850	20

d (mm)	SS316 Code Rp (inch) ½"	¾"	1"	L (mm)	L1 (mm)	H (mm)	H1 (mm)	Weight (kg±0.001)	GP
63	**300 211 664**	**300 211 665**	**300 211 666**	61	102	96	18	0.250	30
75	**300 211 667**	**300 211 668**	**300 211 669**	78	124	108	19.5	0.310	25
90	**300 211 670**	**300 211 671**	**300 211 672**	86	137	122	19.5	0.380	25
110	**300 211 673**	**300 211 674**	**300 211 675**	98	154	143	18	0.440	30
125	**300 211 676**	**300 211 677**	**300 211 678**	110	174	158	20	0.730	25
140	**300 211 679**	**300 211 680**	**300 211 681**	118	194	173	19.5	0.790	25
160	**300 211 682**	**300 211 683**	**300 211 684**	124	214	194	20	0.850	20

PP Clamp saddle with female threaded double outlet



- Water PN16
- Suitable for PE and PVC Pipes
- Female thread -: ISO 7 (parallel) / SS304
- Material -: PP
- Gasket -: O – ring with flat lip (EPDM)
- Bolt and nut -: Galvanized / SS304 / SS316
- Colour -: Blue
- Approval -: WRAS



d (mm)	Galvanized Code Rp (inch) ½"	¾"	1"	½" x ¾"	½" x 1"	¾" x 1"
63	300 218 529	300 218 530	300 218 531	300 218 532	300 218 533	300 218 534
75	300 218 535	300 218 536	300 218 537	300 218 538	300 218 539	300 218 540
90	300 218 541	300 218 542	300 218 543	300 218 544	300 218 545	300 218 546
110	300 218 547	300 218 548	300 218 549	300 218 550	300 218 551	300 218 552
125	300 218 553	300 218 554	300 218 555	300 218 556	300 218 557	300 218 558
140	300 218 559	300 218 560	300 218 561	300 218 562	300 218 563	300 218 564
160	300 218 565	300 218 566	300 218 567	300 218 568	300 218 569	300 218 570

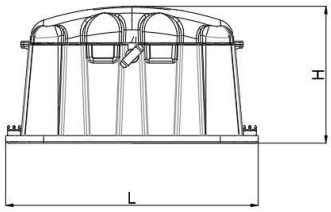
d (mm)	SS304 Code Rp (inch) ½"	¾"	1"	½" x ¾"	½" x 1"	¾" x 1"
63	300 211 622	300 211 623	300 211 624	300 211 625	300 211 626	300 211 627
75	300 211 628	300 211 629	300 211 630	300 211 631	300 211 632	300 211 633
90	300 211 634	300 211 635	300 211 636	300 211 637	300 211 638	300 211 639
110	300 211 640	300 211 641	300 211 642	300 211 643	300 211 644	300 211 645
125	300 211 646	300 211 647	300 211 648	300 211 649	300 211 650	300 211 651
140	300 211 652	300 211 653	300 211 654	300 211 655	300 211 656	300 211 657
160	300 211 658	300 211 659	300 211 660	300 211 661	300 211 662	300 211 663

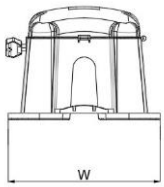
d (mm)	SS316 Code Rp (inch) ½"	¾"	1"	½" x ¾"	½" x 1"	¾" x 1"
63	300 211 685	300 211 686	300 211 687	300 211 688	300 211 689	300 211 690
75	300 211 691	300 211 692	300 211 693	300 211 694	300 211 695	300 211 696
90	300 211 697	300 211 698	300 211 699	300 211 700	300 211 701	300 211 702
110	300 211 703	300 211 704	300 211 705	300 211 706	300 211 707	300 211 708
125	300 211 709	300 211 710	300 211 711	300 211 712	300 211 713	300 211 714
140	300 211 715	300 211 716	300 211 717	300 211 718	300 211 719	300 211 720
160	300 211 721	300 211 722	300 211 723	300 211 724	300 211 725	300 211 726

d (mm)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	Weight (kg±0.001)	GP
63	61	102	192	18	0.316	30
75	78	124	216	19.5	0.394	25
90	86	137	244	19.5	0.484	20
110	98	154	286	18	0.561	30
125	110	174	316	20	0.863	25
140	118	194	346	19.5	0.933	20
160	124	214	388	20	1.007	20

Water meter box

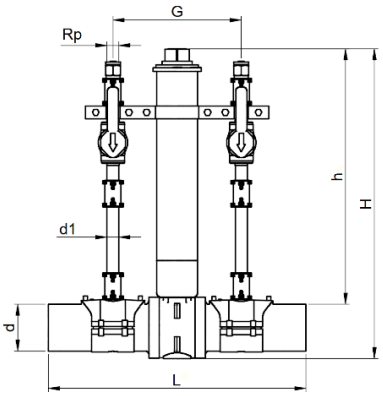
- Use for water meter protection.
- Material -: PP
- Colour -: Blue
- Environment friendly & rust proof
- Lightweight easy to carry
- With locking key

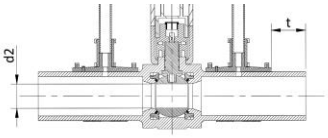




d (mm)	Code (Blue)	d1 (mm)	L (mm)	W (mm)	H (mm)	Weight (kg±0.001)
20,25,32	**300 218 242**	36	332	246	182	0.490

2 Purge type (2ps) PE ball valve with extension spindle

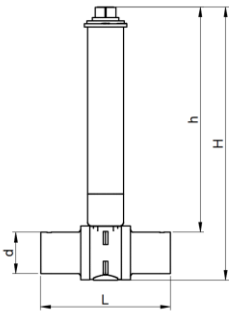


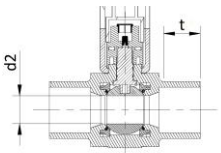


- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas
- Low actuating torque for easy operation
- Maintenance-free
- Triple O-ring seal to cover extreme operating conditions
- Extension spindle length can be produce as per customer requirement
- d2 = diameter of bore
- t = spigot length

d (mm)	d1 (mm)	d2 (mm)	Rp (inch)	Code	G (mm)	H (mm)	h (mm)	L (mm)	t (mm)	Weight (kg±0.001)	GP
63	32	48	1"	**300 211 475**	320	835	772	615	68	7.00	1
90	32	68	1"	**300 211 476**	340	835	745	665	83	11.00	1
125	32	62	1"	**300 211 478**	345	856	710	705	90	13.00	1
125	32	100	1"	**300 223 106**	404	882	692	740	82	16.90	1

PE ball valve with extension spindle





- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Low actuating torque for easy operation
- Maintenance-free
- Triple O-ring seal to cover extreme operating conditions
- Extension spindle length can be produce as per customer requirement
- d2 = diameter of bore
- t = spigot length

d (mm)	d2 (mm)	Code	H (mm)	h (mm)	L (mm)	t (mm)	Weight (kg±0.001)	GP
63	48	**300 211 526**	835	772	350	101	4.300	1
90	68	**300 211 527**	835	745	440	128	6.500	1
125	62	**300 211 529**	835	710	400	112	7.450	1
125	100	**300 223 105**	882	692	475	112	12.04	1

Top load tool for (DTS) threaded outlet saddle

- **Tool size for d50 – d225**
- For easy and faster installation
- One tool for all different sizes

Code	Length (mm)	Width (mm)	Height (mm)
300 219 561	450	280	120

Cutter for (DTS) threaded outlet saddle

- **SS304 replaceable cutting tip for better cutting on HDPE pipes**
- These tools are designed to comply with British gas
- GISP / L2 – 5:2006 specifications

Size	½"	¾"	1"
Code	**300 219 562**	**300 219 564**	**300 219 563**

Spanner for transition coupler

- **Use for d20 X ½" transition coupler hexagon holding**
- For easy and faster installation

Code	Length (mm)	Width (mm)	Height (mm)
300 213 950	219	68	10

Hexagon key for monoline tapping saddle

- **Use for tightening fixation the cutter in the saddle**
- For easy and faster installation

Type (mm)	Code	Length (mm)	Width (mm)
SW12	**300 213 951**	300	150
SW19	**300 213 952**	300	150

Tightening wrench for compression fittings

- **Tool size for d20 – d75 and d63 – d110**
- For easy and faster installation

d (mm)	Code	Length (mm)	Width (mm)	Weight (kg±0.001)
20 - 75	**300 213 953**	540	115	0.626
63 - 110	**300 213 954**	659	162	1.642

Special Quality Features For High Product Performance

PE electrofusion fittings and saddles	Significance
PE Resin used to make the product is from INEOS, Belgium & BASELL, Middle East. They are part of high quality PE 100 Plus Association	The product quality standard are of same manufactured in Switzerland & in India due to use of high Quality PE virgin material.
Product design by GF Wavin, Switzerland	Fittings designed using positive tolerances of EN 1555/ EN 12201 (more raw material used). This heavy design made considering higher factor of safety assures minimum 50 years of life expectancy if installed correctly.
PE Resins used are with higher Oxidation Induction Time (OIT) between approx. 40 min. to 70 min. against international standard requirement of > 20 min.	Higher OIT means a better resistance against long term oxidation. Higher OIT also leads to higher thermal stability of the product against extreme ambient conditions across globe.
Fusion Zone	Electrofusion fittings products made with fusion zone of 1.5 times the minimum zone required as per standard EN 12201-3/ EN 1555-3. This makes electrofusion much stronger and robust. Fittings designed using positive tolerances (more raw material used). This heavy design made considering higher factor of safety assures minimum 50 years of life expectancy if installed correctly.
Fusion Indicators	GF products have sockets in which fusion indicators are laid. GF fittings have conical shape fusion indicators against straight type design prevailing in the market. GF design ensures the fusion pop up indicator is protected in socket post fusion operation even while pipe is laid underground and while in trench to ensure physical confirmation of Joint. In case of straight type fusion indicator design, there is possibility of overflow of melted material which in turn may result in weaker joint and also possibilities of breakage of pop up indicators may lead to ambiguity.

PE electrofusion fittings and saddles	Significance
Integrated Pipe Holding Fixation Screws	GF products provide the integrated pipe holding fixation screws in fittings up to d63mm. PE Polymer melts at 210 Deg. C Temp to complete the Fusion which generates immense pressure to create lateral movement of pipe which can be avoided with help of integrated screws to holds pipes tightly in fittings to ensure high quality electrofusion jointing.
Saddles have relatively more Surface Area suitable for each pipe size.	Extra electrofusion surface area results in robust and strong welding joint. This results in operational life more than 50 years.
External Agency Product Approvals for Gas Application	GF products has top European country Product Approval namely: DVGW (German).
External Agency Product Approvals for Water application for Effect on Water Quality for Drinking Water	GF products has two top European country Product Approvals namely: DVGW (German) and WRAS (UK). Multiple approvals ensure the high quality conformance and long life.

Special Quality Features For High Product Performance

Polypropylene Glass fibre reinforced (PPGF) saddle	Significance
PPGF material is more tough and flexible.	The Composite of Polypropylene Glass fibre (30%) reinforced (PPGF) gives extra strength and In a given situation, excess torque applied does not crack the saddle. Therefore, long-life assured.
Patented design of High Quality EPDM Rubber seal with more contact area on Pipe Surface and Flat Design.	High contact area on uneven ductile iron pipe is essential for gripping and to avoid leaks and contamination of water. Ease of installation and manoeuvrability for High performance with long life is assured.
GF saddles are PN 16 Kg/sq cm pressure rated.	Continuous operation for PN 16 Kg/Sq cm pressure possible.
SS strap belt of higher thickness (1.5 mm) with NBR UV protected rubber 1.25 mm thickness (Class 70) to ensure adjustable studs with dia flexibility with constant torque hold.	High strength due to higher thickness of SS belt. Uniformly distributed stress load with no welded joints on strap at all. Deviation in dia of pipe can be adjusted with adjustable studs and flexible SS belt. This results in ease of installation with longer life of Saddles.
GF saddles are comply with European Norms (EN) EN12201 for Water	Complied according to International Standards. High quality delivered.

Special Quality Features For High Product Performance

Ductile Iron (DI) saddle (Ideal for DI pipes)	Significance
Heavy DI body (weight of 4" saddles is 600 grams.) with corrosion resistance epoxy powder coating can absorb high uncontrolled torque unintentionally given by installer.	Long life of Saddles for more than 50 years is assured in underground installation due to no corrosion. Heavy weight of Saddle results in robustness of the product.
Design and Patented by GF Holland.	Several water and Gas utility companies in Europe using these products for last more than 40 years. Long life assured.
GF saddles are PN 16 Kg/sq cm pressure rated.	Continuous operation for PN 16 Kg/sq cm pressure possible.
Patented design of High Quality EPDM Rubber seal with more contact area on Pipe Surface. Weight of Rubber is 90 grams.	High contact area on uneven ductile iron pipe is essential for gripping and to avoid leaks and contamination of water. High performance with long life is assured.
SS strap belt of higher thickness (1.5 mm) with NBR UV protected rubber 1.25 mm thickness (Class 70) to ensure adjustable studs with dia flexibility with constant torque hold.	High strength due to higher thickness of SS strap belt. Uniformly distributed stress load. With no welded joints on strap at all. Deviation in dia of pipe can be adjusted with adjustable studs and flexible SS belt. This results in ease of installation with longer life of Saddles.
GF saddles are comply with European Norms (EN) EN12201	Complied according to International Standards. High quality delivered.

Special Quality Features For High Product Performance

PP compression fittings and valves	Significance
Polypropylene Resin used for Compression Fittings is mixture of Co-polymer and Homopolymer Grade.	The Flexibility and Robustness optimization is secured. Therefore the product has longer life with full pressure continuous operation.
Compression Fittings and Valves are patented and designed by GF TPA, Italy.	These products are used over 30 years by most of European Water Utility Companies. Therefore high performance is assured.
The sealing mechanism for Valve is done with lip seal design as compared to O-ring design	This results in much larger contact surface area gripped on pipe outer surface. Leak-proof operation assured. No other supplier provide lip seal.
GF Product design with high factor of safety	Products made with heavy design to achieve this extra safety factor and assures long-term operations (> 25 years) with continuous pressure. Other suppliers have trimmed design to save cost.
International Approval WRAS (UK) for PP compression fittings & valves.	International approvals results high quality and excellent performance.

Special Quality Features For High Product Performance

PP clamp saddle with SS thread outlet	Significance
Polypropylene Resin used for PP clamp saddle is mixture of Co-polymer and Homopolymer Grade.	The Flexibility and Robustness optimization is secured. Therefore the product has longer life with full pressure continuous operation.
PP clamp saddles are patented and designed by GF TPA, Italy.	These products are used over 30 years by most of European Water Utility Companies. Therefore high performance is assured.
GF saddles are 16 Kg/sq cm pressure rated.	Continuous operation for PN 16 Kg/Sq cm pressure possible.
The sealing mechanism for PP clamp saddle is done with flat lip gasket design as compared to O-ring design	This results in much larger contact surface area gripped on pipe outer surface. Leak-proof operation assured. No other Indian supplier provide lip seal.
GF Product design uses more than 30% raw material.	This extra heavy design assures long term operations (> 25 years) with continuous pressure. Other Indian suppliers have trimmed design to save cost.
GF PP Clamp saddles are comply Australian / New Zealand standard AS/NZS 4129	Complied according to International Standards. High quality delivered.
International Product Approval WRAS (UK)	International approval results high quality and excellent performance.

Notes :-

General Terms and Conditions of Supply

GEORG FISCHER PIPING SYSTEMS PVT. LTD., INDIA

1. General

1.1 These general conditions shall apply to all Products supplied by Georg Fischer Piping Systems Pvt. Ltd., India herein after referred to as "Georg Fischer" to the Purchaser also referred to as "Customer". They shall also apply to all future business even when no express reference is made to them.

1.2 Purchaser specifically agrees that, the issuance of a Purchase Order to Georg Fischer implies his/ their acceptance to Georg Fischer's general terms and conditions of Supply as laid out in this document.

1.3 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.

1.4 Purchaser agrees that, Purchase Orders placed on Georg Fischer will be considered Non-Cancellable and all products delivered under these purchase orders will be considered Non-Returnable.

1.5 Unless specifically defined, Georg Fischer quotations are valid for a period of 30 days from the date they are issued. Alterations or changes to quotations after 30 days may be made at the discretion of Georg Fischer without notice.

1.6 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. Data and Documents

2.1 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.

2.2 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.

3. Confidentiality, Protection of Personal Data

3.1 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.

3.2 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.

4. Price

4.1 Unless agreed otherwise, the prices shall be deemed quoted net ex-works (according to Incoterms of the ICC, latest version) including standard packing. All supplementary costs, such as carriage, insurance, import-licenses, transit-license and export-licenses, etc., shall be borne by the Purchaser.

4.2 Any local, State or Central taxes, duties or levies are borne by the Purchaser and will be paid in addition to the prices quoted by Georg Fischer. In case tax exemption is claimed by the Purchaser, the Purchaser will be responsible to provide these tax exemption certificates to Georg Fischer in advance as prescribe in law.

4.3 Purchaser needs to incur all incidental cost and responsibilities of obtaining timely Import license, import clearance, GST and CHA services etc. for their High Sea Sales and Merchant Trade transaction with Georg Fischer.

4.4 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.

4.5 Georg Fischer will provide installation training of their products to Purchaser's technical staff on request and provide details of their listed authorised installer having team of trained installers. Purchaser need to deal directly with such authorised installer and execute separate contract for installation work.

4.6 Georg Fischer is not undertaking any such onsite installation work contracts and is not responsible/ liable for such installation work done by contractors.

5. Term of Payment

5.1 Georg Fischer's standard payment conditions are Advance payment of 100% of the value of the order at the time of placement of order. From time to time, Georg Fischer may accept different payment terms to accommodate Purchaser's requirements. In these cases, Payment terms will be specified by Georg Fischer in our written offer/ quotation.

5.2 For payments by letter of credit, the regulations issued by the ICC on "Uniform Customs and Practice for Documentary Credits" shall apply in the applicable version as amended from time to time.

5.3 Bills of exchange or cheques are always accepted only on account of performance. All discount and bill charges are to be borne by the Customer.

5.4 If the Customer defaults on payment, the Supplier shall be entitled to claim default interest. Any delay in payment will attract an interest @ 1.5% per month or any part thereof, compounded.

5.5 The Customer is not entitled to set-off, retention or reduction, unless its counterclaims are either not disputed by the Supplier or have been established by final and non-appealable judgment. The same applies also in the case of an assertion of claims based on liability for defects.

5.6 If the Supplier becomes aware of circumstances that call the Customer's creditworthiness into question, then all deferred claims shall be immediately fall due and payable. Furthermore, the Supplier may in such case request advance payment or provision of security.

6. Scope of Delivery

6.1 Georg Fischer's product range is subject to change.

6.2 Georg Fischer's offer/ quotation shall govern the scope and execution of the contract.

7. Delivery

7.1 Unless otherwise agreed, each delivery is "Ex-works". 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.

7.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:

A. If Georg Fischer is 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 unpractical or impossible, such as delayed or defective supplies from subcontractors, 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.

On 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/ their obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment, in particular payment of any agreed advances or opening of a letter of credit by the Purchaser or if he has failed to timely provide the agreed securities, materials, documents, permits, import licenses, releases and tests to be provided by the Purchaser.

7.3 In case of a default on the part of the Supplier, the Purchaser shall grant the Supplier a reasonable additional period for performing the contract.

7.4 Purchaser understands that, the delivery schedule mentioned by Georg Fischer is for guidance purposes only and may be subject to change. Georg Fischer does not accept any penalties for delayed delivery or liquidated damages to any extent, unless expressly mentioned in our quotation or subsequent written communication to the Purchaser.

7.5 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.

7.6 If the Purchaser cancels an order without justification, Georg Fischer shall be entitled to a penalty amounting to 20% of the contract price for local made products and a penalty amounting to 30% of the contract price for imported products. The Purchaser is not allowed to cancel the order for nonstandard products, customized/ prefabricated products according to customer's request or drawings, out-sourced goods according to customer's request, once production for such order is started or necessary components is purchased or order to third-party goods is placed. Georg Fischer's right to prove and claim higher damages remaining reserved. The Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

8. Packing

If the Products are provided with additional packing over and above the standard packing, such packing will be charged extra in invoice and is non-refundable.

9. Carriages and Insurance

9.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.

9.2 The Purchaser shall be responsible for 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.

9.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in advance. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.

9.4 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 the Purchaser.

9.5 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.

9.6 Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six days from receipt of the Products.

9.7 As far as any commercial clauses such as FOB, FOR, CIF, etc. are used; these shall be construed according to the applicable Incoterms of the ICC as amended from time to time.

10. Inspections, Notification of Defects and Damages

10.1 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.

10.2 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 7 days from receipt of the Products. Notice of technical defects immediately latest within 10 working days from receipt of the Products, in any event within the agreed warranty period.

10.3 Purchaser shall not dispose any 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 or at a third party to be nominated by Georg Fischer.

10.4 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 appointed by Georg Fischer.

11. Passing of risk, default of acceptance

11.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works or warehouses (EX WORKS, Incoterms ICC, latest version), even if delivery is made carriage-paid, under similar clauses or when carriage is organized and managed by Georg Fischer.

11.2 In so far as acceptance is required, it shall be authoritative for the passing of risk. It must be performed without undue delay on the date of acceptance, alternatively after the Supplier has notified the readiness for acceptance. The Customer is not entitled to refuse acceptance in the event of a minor defect. If the Customer does not declare acceptance even though no defect is given or an only minor defect exists, then acceptance shall be deemed declared after the expiry of a period of one month after notification of the readiness for acceptance.

11.3 If the Customer is in default of acceptance or violates any other cooperation obligations, then the Supplier shall be entitled to request compensation for the damage incurred, including any additional expenses, in particular the costs incurred by the delayed acceptance of delivery.

11.4 Purchaser will be responsible for storage of products in conditions which are suitable for storage of sensitive electronic equipment, i.e. dry, temperature controlled, dust free and vibration free environment. Georg Fischer will not be liable for any product defect caused by incorrect storage, handling, and assembly or testing.

12. Warranty

12.1 At the written request of the Purchaser, Georg Fischer undertake to repair or replace at their discretion, as quickly as possible and free of charge all Products supplied which demonstrably suffer from faulty design, materials or workmanship or from faulty operating or installation instructions.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organization, 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.

12.2 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.

12.3 The Purchaser shall be entitled to cancel the contract or to demand a reduction in the contract price if,

- Repair or replacement is impossible, or
- Georg Fischer is unable or refuses to remedy the defect or replace the defective Products within a reasonable period of time.

12.4 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.

12.5 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.

12.6 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 eighteen (18) months from receipt of the Products by the end user or at the latest within twenty four (24) months of the Products being despatched by Georg Fischer.

13. Limitation of Liability

13.1 All classes of breach of contract and the relevant consequences as well as all rights and claims on the part of the customer, irrespective on what ground they are based, are exhaustively covered by these general conditions of supply. In particular, any claims not expressly mentioned for damages, reduction of price, termination of or withdrawal from the contract is excluded. In no case whatsoever shall the customer is 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 and other direct or indirect or consequential damage.

14. Retention of Title

14.1 The Products shall remain the property of Georg Fischer until the Purchaser has settled all claims, present and future, which Georg Fischer may have against him.

14.2 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.

14.3 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 the Purchaser at his request.

15. 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.

16. Local Laws and Regulations

16.1 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.

16.2 In case of re-exports, the Purchaser shall be responsible for compliance with pertinent export control regulations.

17. Place of Performance and Jurisdiction

17.1 Place of performance for the Products shall be the Georg Fischer Piping Systems Pvt. Ltd. Works or Warehouses from which the Products are despatched.

17.2 Exclusive place of venue for any differences shall be Supplier's office having issued the offer/ quotation. We shall however be entitled to bring actions in any other competent courts.

17.3 Any claim, dispute or difference relating to or arising out of this general terms and conditions and any agreements related thereto; shall be referred to the arbitration, of a sole arbitrator. The arbitration shall be subject to the Arbitration and Conciliation Act, 1996 as may be amended from time to time. The parties will appoint the Sole Arbitrator and will conduct the Arbitration in accordance with the rules and provisions of Arbitration and Conciliation Act, 1996 for conduct of Arbitration proceedings then in force and applicable to the proceeding. The seat and venue of arbitration shall be Mumbai. The proceedings shall be undertaken in English. The arbitration award shall be final and binding on the parties.

17.4 Laws of India will apply with regard to any dispute between Georg Fischer Piping Systems Pvt. Ltd., India and the Purchaser with the Courts of Mumbai being the place of jurisdiction, excluding any conflict of law's provisions, deliveries to abroad in addition to the UN Convention on the International Sale of Goods of 11.4.1980.

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