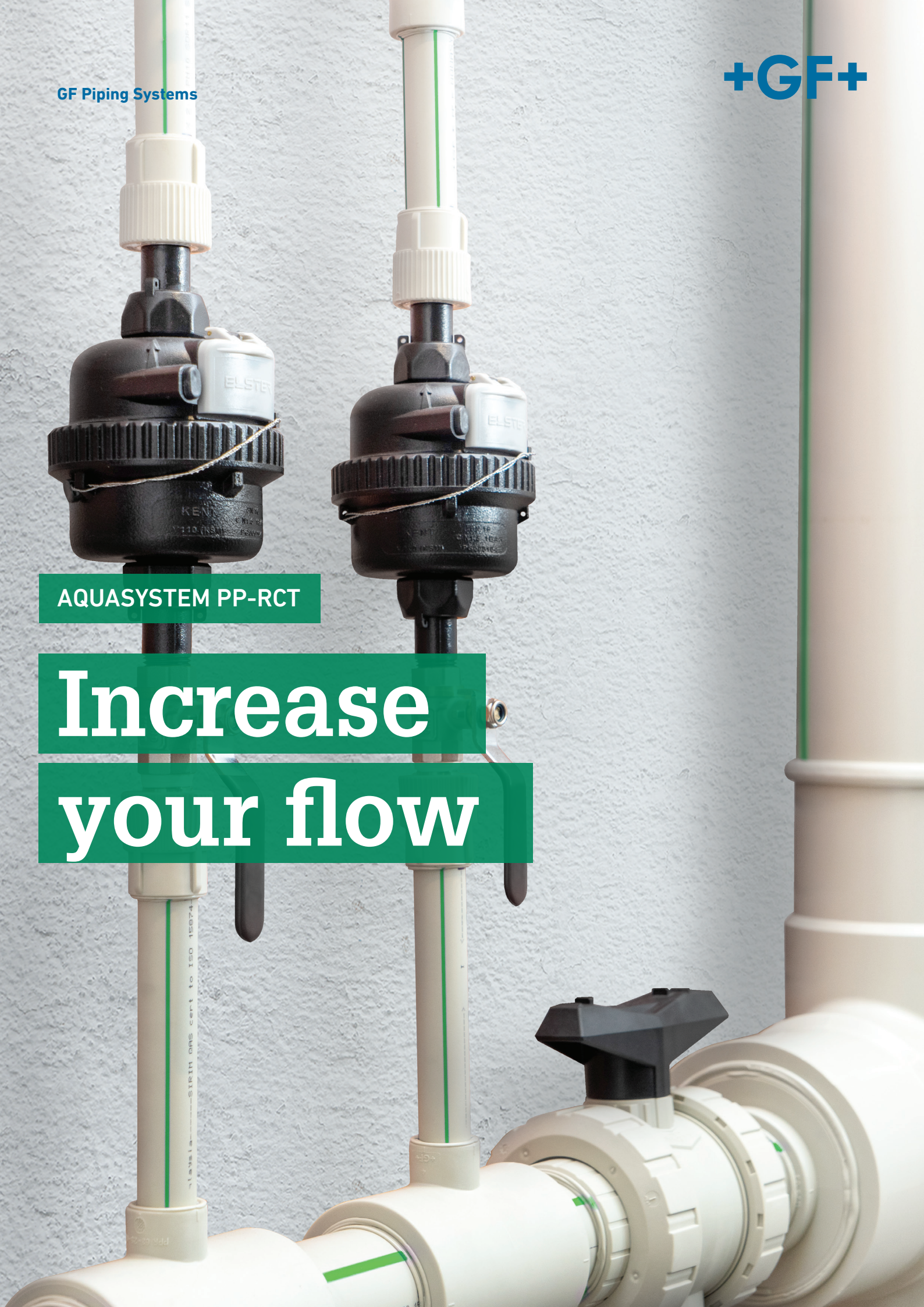


AQUASYSTEM PP-RCT

Increase
your flow



Who we are

Connections for life

GF Piping Systems is the leading flow solutions provider across the world. We enable the safe and sustainable transport of fluids. Our business is driven by maintaining industry-leading sustainability levels, innovating through digitally enabled solutions, and investing in a culture built on performance, learning, and caring.

Your partner for modern plastic piping systems




The plastic piping systems from GF Piping Systems are non-corrosive and do not need replacing throughout the system's entire service life. Therefore, they contribute to the increased reliability of the system while lowering maintenance costs and staff requirements. They are excellently suited for applications involving potable and sewage water, coolants, acids, leaches, and other chemicals, as well as abrasive compounds.

GF Piping Systems, founded more than 200 years ago in Switzerland, supports its customers both in the initial switch from metal to plastic and in retrofits – across all project phases. They benefit from more than 60 years of experience in plastic systems and application knowledge from 100 countries. With Specialized Solutions, GF Piping Systems supports the design and installation of state-of-the-art plastic piping systems, so that owners and planners can concentrate on their daily business without interruption. GF Piping Systems is present every step of the way, from the design phase all the way through to installation and maintenance.

Strong regional footprint

GF Piping Systems has been present in the Southeast Asian market since 1994, when the first office in the region was registered in Singapore. Today, with seven offices in five countries, production facilities in Malaysia and Indonesia, and numerous regional partners across Southeast Asia, GF Piping Systems is committed to the region and ensures competent customer support and technical on-site training.



-  Sales / Representative office
-  Production facility
-  Distributors



Rewarding journey

From metal to plastic

+ Why we love plastics

Extremely long service life

Plastic pipelines are maintenance-free and do not need to be replaced over the entire service life of the system (at least 25 years). This reduces the need for maintenance and repair, operating and overall costs.

Corrosion-free and abrasion-resistant

Whether potable or process water, coolants, acids and other chemicals or water-solid mixtures (e.g. sludge) - plastic piping systems excellently withstand all chemical and mechanical loads.

Faster installation

Innovative system additions ensure that plastic piping can be installed up to 50 percent faster.

Versatility

The choice of materials allows plastic pipelines to be perfectly adapted to the respective requirements.

Low weight

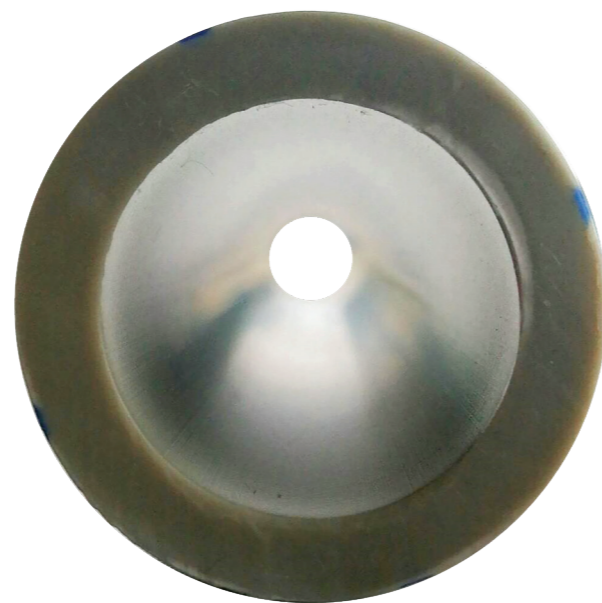
Plastic pipes weight 60 percent less than comparable metal pipes. Thus, they cause less constructional concern when installed in buildings or ships, while being easier to transport and move on-site.

Higher safety

The excellent properties of plastics mean that there are significantly fewer leaks compared to metal solutions. At the same time they show a comparable mechanical behavior. In certain situations, it is even better than metal because of plastic's typical flexibility.

Higher efficiency

The system's efficiency is increased by the low pressure drop of plastic pipes, their low thermal conductivity, and their excellent flow rate.



Market segments

Covering your needs in building technologies

The right solutions for your potable water supply, heating and cooling applications - durable piping solutions developed to meet the highest standards of the modern building.

Potable water installations must comply with the highest hygiene standards. Hot water distribution requires an energy-efficient system including reliable measurement and control technology to ensure a high level of comfort. GF Piping Systems supplies long-lasting and efficient piping systems and valves for residential houses, hotels, hospitals, industrial buildings, recreational facilities, and ships.

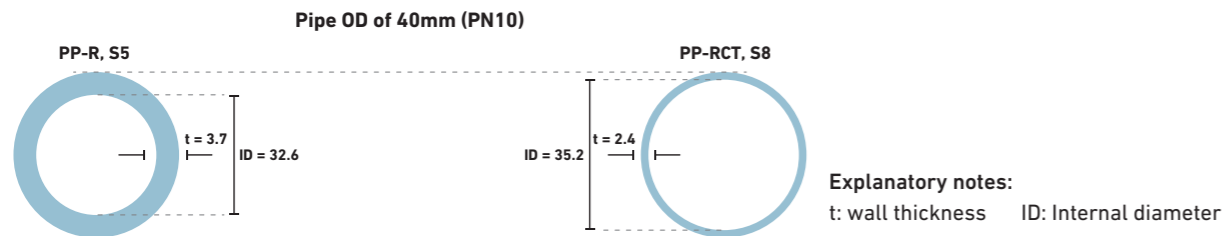
Benefits

- Hygiene solutions for potable water supply in buildings
- Comfort for living and during operating
- Simple and easy to use, operate, and fast to install
- High standards for energy-efficiency and sustainability



Meet the next generation of piping systems

The original PP-R, a long time favorite for hot and cold water applications in apartment complexes, hotels, and malls, just got better. Made of next generation polypropylene random copolymer with modified crystallinity, AQUASYSTEM PP-RCT is one of the most technically advanced systems on the market.



Higher stability at higher temperatures

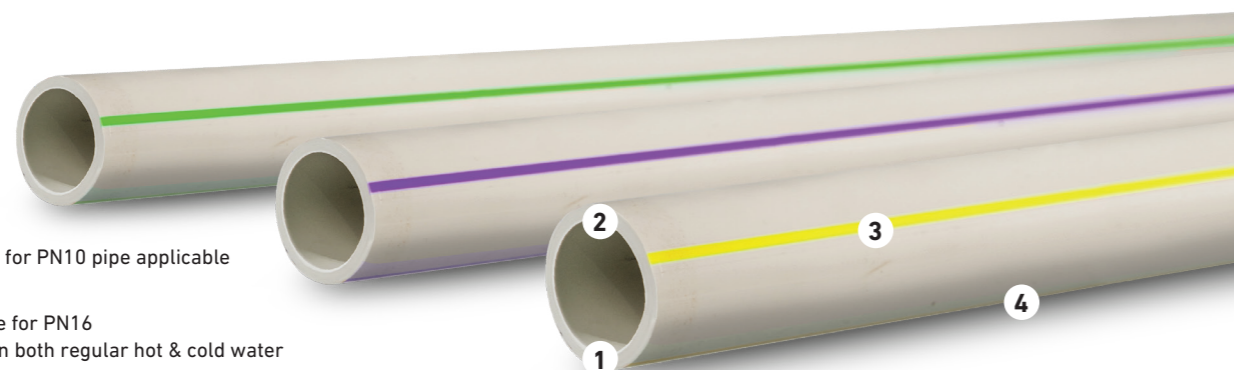
- PP-RCT structure provides higher pressure at higher operating temperature than PP-R
- Internal pressure resistance improved
- Enhanced long-term durability
- Good impact resistance

30% lower weight compared to PP-R

- Reduced wall thickness with PP-RCT leads to a lighter system
- Allowing for benefits in installation and handling

Superior flow rate

- With the same outside diameter as the original PP-R, the reduced thickness of AQUASYSTEM PP-RCT means a higher internal diameter which allows for a higher flow rate
- Reduced system costs - pipes with higher hydraulic capacity
- Do not require to upsize as much as PP-R due to larger inner diameter



- The green stripe for PN10 pipe applicable in cold water
- The purple stripe for PN16 pipe applicable in both regular hot & cold water
- The yellow stripe for PN20 superior in handling hot water

1. Thinner wall thickness compared to PP-R pipe with the same outer diameter
2. Made of polypropylene random copolymer with modified crystallinity
3. Do not require to upsize as much as PP-R due to larger inner diameter
4. Higher pressure resistance at high temperatures for a longer period of time (compared to regular PP-R)

The right solution for your needs



Equally appreciated by end users, consultants, installers, and plumbers, AQUASYSTEM PP-RCT is the right solution for your high class building project. The system features high temperature and pressure resistance while being hygienically safe and eligible for use in potable water supply systems. Thanks to its chemical resistance behavior, the system is also a great choice for transferring or discharging chemical media.



End-Users (Developers, Residence, Facility Team)

- Lower total cost of ownership
- Reduced leakage risk
- Efficient purchasing and installation process



Installers/Plumbers

- Lower total cost of installation
- No extra training costs and time due to common jointing method
- No heavy equipment needed due to light weight
- Faster installation



Consultants

- Lower total cost of pipeline design
- Reduced leakage risk
- No upsizing required when converting from metal, due to increased flow rate

Socket Fusion Installation



1 Fix heating bushes
Attach the heating bushes on the heating tool. A maximum of two sets of bushes can be attached at the same time.



2 Clean the heating tools
Wipe the heater bush with a clean cloth. This process must be repeated after each welding.



3 Check the temperature
Once the socket fusion machine is turned on, set the temperature on the electronic display which must range between 255°C and 265°C. To ensure correct temperature, regular calibration is recommended.



4 Cut the pipe
Cut the pipe at right angle; if necessary remove burrs from inside. If necessary cut deformed or damaged pipe ends of 5 cm.



5 Clean pipe and fitting
Clean the fitting of the sockets on the inside and the outer wall of the pipe (the presence of dust, grease or other impurities can affect the fusion quality and lead to weak jointing).



6 Mark the pipe
Mark the insertion depth on the pipe (see table). The mark must remain visible under heating and jointing.



7 Heat pipe and fitting
Push the pipe and the fitting straight into the heating bushes. Pull out the pipe and fitting slowly and without twisting once the heating time has elapsed.



8 Joint pipe and fitting
Push the pipe into the fitting so that the welding beads of pipe and fitting touch together. During the jointing time, small adjustments in angle and alignment can be made. During the cooling time, any stress on the joint must be avoided.



9 Fusion inspection
The outer fusion bead must be inspected. A double bead must be uninterrupted all around the pipe circumference.

Summary Value table

Pipe Diameter (mm)	Insertion depth (mm)	Heating time (sec.)	Jointing time (sec.)	Cooling fixed (sec.)	Cooling time (min.)
20	14	6 (5 sec. for PN10)	4	6	2
25	16	7	4	6	3
32	18	8	6	10	4
40	20	12	6	10	4
50	23	18	6	20	5
63	26	25	8	20	6
75	28	30	8	30	8
90	31	40	10	30	8
110	33	50	10	40	8
125	40	60	10	50	8

Certificate

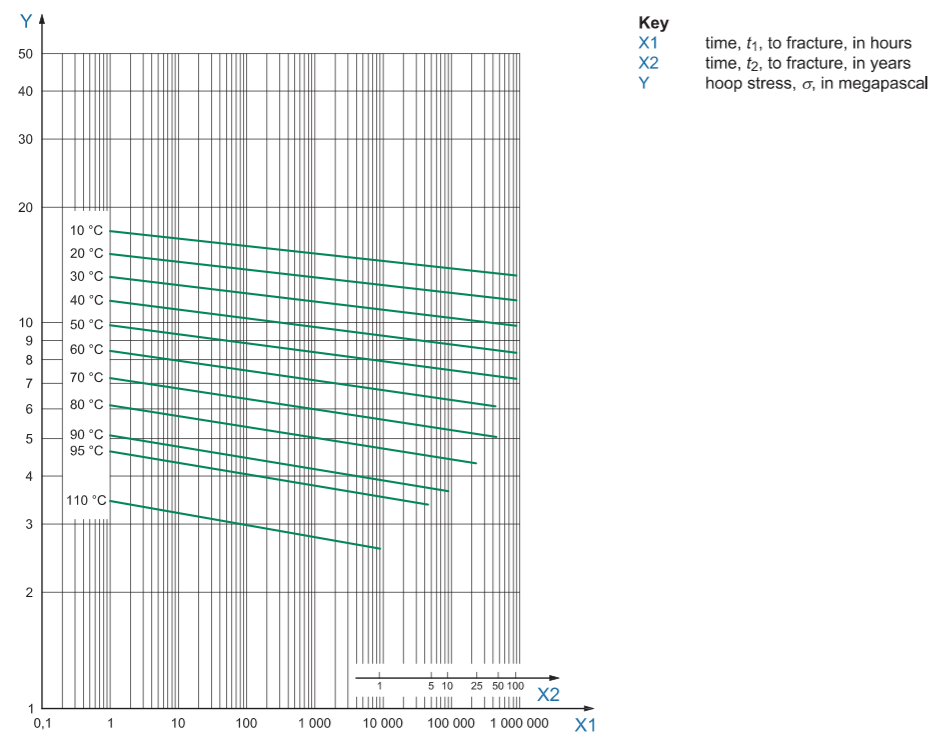
GF Piping Systems is a leading and dynamic organization in terms of continuous improvement and customer satisfaction. We provide product standards at the desired quality based on these certificates:



Physical and mechanical properties of raw material PP-RCT

Properties	Testing Conditions	Unit	Testing Method	Result
MRS Classification	20°C, extrapolation 50 years	MPa	ISO 9080	11.2
CRS Classification	70°C, extrapolation 50 years	MPa	ISO 9080	5.3
Density	23°C	g/cm ³	ISO 1183	0.89 - 0.91
Melting Flow Index MFI	190°C, 5 kg	g/10dk g/10mn	ISO 1133	0.4 - 0.6
	230°C, 2.16 kg			0.2 - 0.5
	230°C, 5 kg			0.8 - 1.3
Tensile Stress at Yield	23°C, 50 mm/dk 50 mm/min	MPa	ISO 527	23 - 28
Tensile Strain at Yield	23°C, 50 mm/dk 50 mm/min	%	ISO 527	min %10
Elasticity Modulus	23°C, 1 mm/dk 1 mm/min	MPa	ISO 179	800 - 900
Charpy Notched Impact Strength	0°C	kJ/m ²	ISO 179	9.5
Izod Notched Impact Strength	0°C	kJ/m ²	DIN 52612	17
Thermal Conductivity	-	W/(m K)	DIN 52612	0.24
Coefficient of Thermal Expansion (0°C/90°C)	-	1/K	DIN 53752	1.5* 10 ⁻⁴

Isothermal Mechanical Strength graphic for PP-RCT



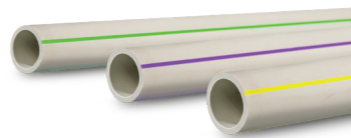
PP-RCT - Permissible Operating Pressure

Water temperature	Working years	Type of pipe		
		SDR 17	SDR 11	SDR 9
		S 8	S 5	S 4
Pressure Bar				
10°C	1	14.4	22.8	28.8
	5	14.0	22.1	27.9
	10	13.8	21.9	27.5
	25	13.5	21.5	27.1
	50	13.4	21.2	26.7
20°C	1	12.5	19.9	25.0
	5	12.1	19.3	24.2
	10	12.0	19.0	23.9
	25	11.7	18.6	23.5
	50	11.6	18.4	23.1
30°C	1	10.8	17.2	21.7
	5	10.5	16.6	20.9
	10	10.3	16.4	20.6
	25	10.1	16.1	20.2
	50	10.0	15.8	19.9
40°C	1	9.3	14.8	18.6
	5	9.0	14.3	18.0
	10	8.8	14.1	17.7
	25	8.7	13.8	17.3
	50	8.5	13.6	17.1
50°C	1	8.0	12.6	15.9
	5	7.7	12.2	15.3
	10	7.5	12.0	15.1
	25	7.4	11.7	14.7
	50	7.2	11.5	14.5
60°C	1	6.7	10.7	13.5
	5	6.5	10.3	13.0
	10	6.4	10.1	12.7
	25	6.2	9.9	12.4
	50	6.1	9.7	12.2
70°C	1	5.7	9.0	11.3
	5	5.4	8.6	10.9
	10	5.3	8.5	10.7
	25	5.2	8.3	10.4
	50	5.1	8.1	10.2
80°C	1	4.7	7.5	9.5
	5	4.5	7.2	9.0
	10	4.4	7.0	8.9
	25	4.3	6.9	8.6
	50	4.2	6.8	8.5
95°C	1	3.5	5.6	7.1
	5	3.3	5.3	6.7

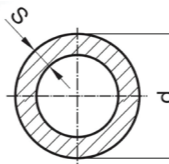
DIN8077: 2008-09, safety factor 1.25

AQUASYSTEM PP-RCT

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Pipes

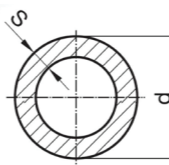


AQUASYSTEM PP-RCT - Pipe PN 10

Model:

- Material: PP-RCT
- PN10, SDR 17, S8
- EN ISO 15874
- Colour: grey

d x s (mm)	Green Strips Code	SP (m)	(kg/m)	Length (m)
40.0 x 2.4	300 200 103	32	0.257	4
50.0 x 3.0	300 200 104	20	0.401	4
63.0 x 3.8	300 200 105	16	0.640	4
75.0 x 4.5	300 200 106	12	0.902	4
90.0 x 5.4	300 200 107	8	1.299	4
110.0 x 6.6	300 200 108	4	1.940	4
125.0 x 7.4	300 200 109	4	2.475	4

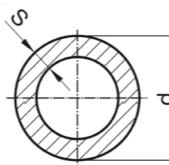


AQUASYSTEM PP-RCT - Pipe PN 16

Model:

- Material: PP-RCT
- PN16, SDR 11, S5
- EN ISO 15874
- Colour: grey

d x s (mm)	Purple Strips Code	SP (m)	(kg/m)	Length (m)
25.0 x 2.3	300 200 112	60	0.149	4
32.0 x 2.9	300 200 113	48	0.240	4
40.0 x 3.7	300 200 114	32	0.382	4
50.0 x 4.6	300 200 115	20	0.594	4
63.0 x 5.8	300 200 116	16	0.944	4
75.0 x 6.8	300 200 117	12	1.319	4
90.0 x 8.2	300 200 118	8	1.908	4
110.0 x 10.0	300 200 119	4	2.843	4
125.0 x 11.4	300 200 120	4	3.683	4



AQUASYSTEM PP-RCT - Pipe PN 20

Model:

- Material: PP-RCT
- PN20, SDR 9, S4
- EN ISO 15874
- Colour: grey

d x s (mm)	Yellow Strips Code	SP (m)	(kg/m)	Length (m)
20.0 x 2.3	300 200 133	100	0.116	4
25.0 x 2.8	300 200 134	60	0.177	4
32.0 x 3.6	300 200 135	48	0.291	4
40.0 x 4.5	300 200 136	32	0.455	4
50.0 x 5.6	300 200 137	20	0.707	4
63.0 x 7.1	300 200 138	16	1.129	4
75.0 x 8.4	300 200 139	12	1.591	4
90.0 x 10.1	300 200 140	8	2.296	4
110.0 x 12.3	300 200 141	4	3.417	4

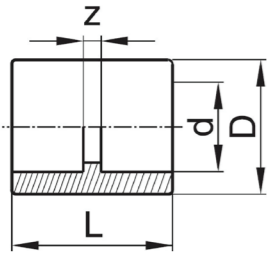
Socket Fusion Fittings

Socket



Model:

- Polypropylene - Random (PP-R)
- EN ISO 15874, MS 2286
- Colour: grey



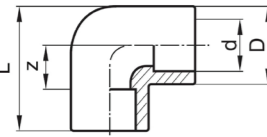
d (mm)	Code	GP	g	D (mm)	L (mm)	z (mm)
20	300 206 022	300	12	29	34	2
25	300 206 023	200	16	34	38	2
32	300 206 024	160	27	43	43	3
40	300 206 025	200	50	55	47	3
50	300 206 026	120	92	70	53	3
63	300 206 027	60	177	88	62	4
75	300 206 028	25	242	103	67	5
90	300 206 029	16	347	122	73	5
110	300 206 030	10	586	148	83	5
125	300 206 031	8	699	160	91	5

Elbow 90°



Model:

- Polypropylene - Random (PP-R)
- EN ISO 15874, MS 2286
- Colour: grey



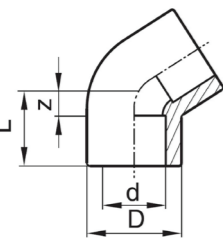
d (mm)	Code	GP	g	D (mm)	L (mm)	z (mm)
20	300 206 032	250	18	29	42	5
25	300 206 033	150	30	34	48	6
32	300 206 034	200	46	43	60	10
40	300 206 035	120	90	55	71	14
50	300 206 036	60	188	70	88	19
63	300 206 037	30	343	88	106	24
75	300 206 038	10	490	103	124	31
90	300 206 039	6	775	122	145	39
110	300 206 040	8	1260	148	171	47
125	300 206 041	1	2311	160	195	55

Elbow 45°



Model:

- Polypropylene - Random (PP-R)
- EN ISO 15874, MS 2286
- Colour: grey



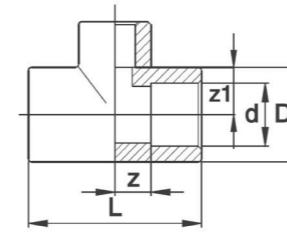
d (mm)	Code	GP	g	D (mm)	L (mm)	z (mm)
20	300 206 052	300	15	29	21	5
25	300 206 053	200	20	34	24	6
32	300 206 054	300	31	43	27	7
40	300 206 055	150	69	55	31	9
50	300 206 056	80	124	70	37	12
63	300 206 057	40	237	88	45	16
75	300 206 058	10	365	103	121	20
90	300 206 059	6	592	122	142	22
110	300 206 060	8	952	148	164	33
125	300 206 061	1	1080	160	185	52

Equal Tee 90°



Model:

- Polypropylene - Random (PP-R)
- EN ISO 15874, MS 2286
- Colour: grey



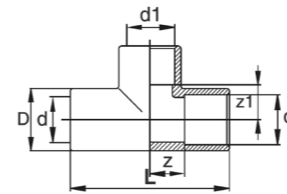
d (mm)	Code	GP	g	D (mm)	L (mm)	z (mm)	z1 (mm)
20	300 206 062	200	23	29	55	12	10
25	300 206 063	300	36	34	64	14	14
32	300 206 064	160	69	43	77	19	19
40	300 206 065	80	126	55	87	22	23
50	300 206 066	50	229	70	105	28	28
63	300 206 067	25	444	88	126	34	35
75	300 206 068	20	584	103	141	40	42
90	300 206 069	10	932	122	163	48	46
110	300 206 070	6	1077	145	197	60	59
125	300 206 100	1	1685	160	216	65	64

Reducing Tee 90°



Model:

- Polypropylene - Random (PP-R)
- EN ISO 15874, MS 2286
- Colour: grey



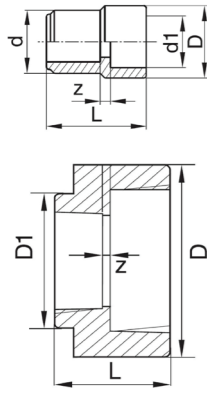
d-d1-d2 (mm)	Code	GP	g	D (mm)	L (mm)	z (mm)	z1 (mm)
25 - 20 - 25	300 206 071	250	38	34	64	14	16
32 - 20 - 32	300 206 074	160	64	43	77	19	22
32 - 25 - 32	300 206 075	60	65	43	77	19	20
40 - 20 - 40	300 206 078	100	113	55	88	22	28
40 - 25 - 40	300 206 079	100	114	55	88	22	26
40 - 32 - 40	300 206 080	80	115	55	88	22	24
50 - 20 - 50	300 206 081	60	208	70	106	28	36
50 - 25 - 50	300 206 082	60	210	70	106	28	34
50 - 32 - 50	300 206 083	60	215	70	106	28	32
50 - 40 - 50	300 206 084	50	218	70	106	28	30
63 - 25 - 63	300 206 085	25	397	88	128	35	45
63 - 32 - 63	300 206 086	10	399	88	128	35	43
63 - 40 - 63	300 206 087	25	403	88	128	35	41
63 - 50 - 63	300 206 088	25	414	88	128	35	38
75 - 25 - 75	300 206 097	20	532	103	141	40	51
75 - 32 - 75	300 206 089	20	533	103	141	40	49
75 - 40 - 75	300 206 090	20	537	103	141	40	47
75 - 50 - 75	300 206 091	20	548	103	141	40	44
75 - 63 - 75	300 206 092	20	564	103	141	40	40
90 - 32 - 90	300 206 093	10	866	122	163	48	57
90 - 40 - 90	300 206 094	10	871	122	163	48	55
90 - 50 - 90	300 206 095	10	878	122	163	48	52
90 - 63 - 90	300 206 096	10	889	122	163	48	48
110 - 50 - 110	300 206 098	6	1490	148	197	60	61
110 - 63 - 110	300 206 099	6	1490	148	197	60	57



Reducing Bush

Model:

- Polypropylene - Random (PP-R)
- EN ISO 15874, MS 2286
- Colour: grey

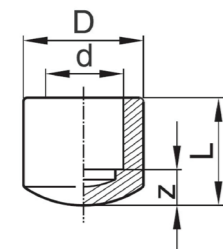


d-d1 (mm)	Code	GP	g	D (mm)	L (mm)	z (mm)	D1 (mm)
25 - 20	300 206 102	400	10	29	38	4	
32 - 20	300 206 103	240	16	29	39	5	
32 - 25	300 206 104	200	18	34	43	4	
40 - 20	300 206 105	150	23	29	44	5	
40 - 25	300 206 106	150	24	34	44	5	
40 - 32	300 206 107	250	34	43	50	7	
50 - 20	300 206 108	100	41	29	50	5	
50 - 25	300 206 109	100	40	34	50	6	
50 - 32	300 206 110	40	44	43	50	4	
50 - 40	300 206 111	40	61	55	57	5	
63 - 20	300 206 112	60	73	29	63	9	
63 - 25	300 206 113	80	74	34	63	10	
63 - 32	300 206 114	50	73	43	59	8	
63 - 40	300 206 115	50	74	55	55	4	
63 - 50	300 206 116	40	111	70	64	6	
75 - 25	300 206 118	25	251	103	54	5	34
75 - 32	300 206 119	25	255	103	56	5	44
75 - 40	300 206 120	25	247	103	58	5	55
75 - 50	300 206 121	25	245	103	61	5	70
75 - 63	300 206 122	25	252	103	65	5	88
90 - 50	300 206 125	10	357	122	64	5	70
90 - 63	300 206 126	16	357	112	68	5	88
90 - 75	300 206 127	16	361	112	70	5	103
110 - 63	300 206 129	10	604	148	74	6	88
110 - 75	300 206 130	10	589	148	75	5	103
110 - 90	300 206 131	10	585	148	78	5	122
125 - 110	300 206 132	10	920	160	90	8	148

End Cap

Model:

- Polypropylene - Random (PP-R)
- Colour: grey



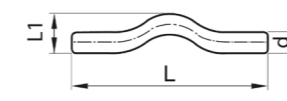
d (mm)	Code	GP	g	D (mm)	L (mm)	z (mm)
20	300 203 132	300	7	28	22	9
25	300 203 133	200	9	35	25	7
32	300 203 134	200	15	42	30	9
40	4301904006321	150	31	53	31	11
50	4301905006421	80	69	67	41	7
63	4301906306522	50	115	83	44	17



Swan Neck

Model:

- Polypropylene - Random (PP-R)
- Colour: grey

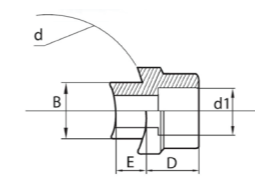
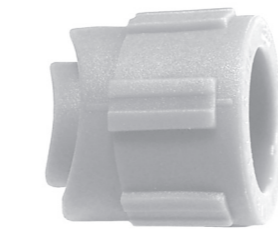


d (mm)	Code	GP	g	L (mm)	L1 (mm)
20	4301902000121	80	38	163	48
25	300 203 143	50	75	320	60
32	300 203 144	30	126	350	64

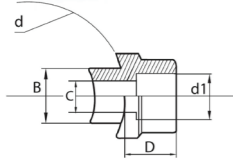
Saddle with Spigot

Model:

- Polypropylene - Random (PP-R)
- Colour: beige



d-d1 (mm)	Code	SP	GP	B (mm)	D (mm)	E (mm)
40 - 20	760 840 190	10	10	22	20	6.5
40 - 25	760 840 191	10	10	22	27	6.5
50 - 20	760 840 192	10	10	22	20	8.0
50 - 25	760 840 193	10	10	22	27	8.0
63 - 20	760 840 194	10	10	22	20	10.0
63 - 25	760 840 195	10	10	22	27	10.0
63 - 32	760 840 196	10	10	32	30	10.0
75 - 20	760 840 197	10	10	22	20	10.0
75 - 25	760 840 198	10	10	22	27	10.0
75 - 32	760 840 199	10	10	32	30	10.0
75 - 40	760 840 200	10	10	32	30	15.0
90 - 20	760 840 220	10	10	22	20	15.0
90 - 25	760 840 221	10	10	22	27	15.0
90 - 32	760 840 222	10	10	32	30	15.0
90 - 40	760 840 231	10	10	32	30	15.0
110 - 20	760 840 223	10	10	22	20	15.0
110 - 25	760 840 224	10	10	22	27	15.0
110 - 32	760 840 225	10	10	32	30	15.0
110 - 40	760 840 226	10	10	32	30	15.0
125 - 20	760 840 227	10	10	22	27	15.0
125 - 25	760 840 228	10	10	22	30	15.0
125 - 32	760 840 229	10	10	32	30	15.0
125 - 40	760 840 230	10	10	32	30	15.0



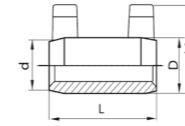
Threaded Female Saddles with Spigot

Model:

- Polypropylene - Random (PP-R)
- Colour: beige

d-Rp (mm/inch)	Code	SP	GP	B (mm)	C (mm)	D (mm)
40-1/2	760 840 764	10	10	22	13	27
50-1/2	760 840 766	10	10	22	13	27
50-3/4	760 840 767	10	10	32	21	30
63-1/2	760 840 768	10	10	22	13	27
63-3/4	760 840 769	10	10	32	21	30
75-1/2	760 840 770	10	10	22	13	27
75-3/4	760 840 771	10	10	32	21	30
75-1	760 840 772	10	10	32	22	34
90-1/2	760 840 773	10	10	22	13	27
90-3/4	760 840 774	10	10	32	21	30
90-1	760 840 775	10	10	32	22	34
110-1/2	760 840 776	10	10	22	13	27
110-3/4	760 840 777	10	10	32	21	30
110-1	760 840 778	10	10	32	22	34
125-1/2	760 840 779	10	10	22	14	27
125-3/4	760 840 780	10	10	32	22	30
125-1	760 840 781	10	10	32	22	34

Electrofusion Fittings



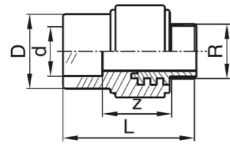
Electric Socket

Model:

- Polypropylene - Random (PP-R)
- Colour: beige

d (mm)	Code	SP	GP	g	D (mm)	L (mm)	L1 (mm)
20	760 840 452	10	10	40	33	70	50
25	760 840 453	10	10	49	38	70	57
32	760 840 454	10	10	63	46	79	62
40	760 840 455	5	5	92	55	90	71
50	760 840 456	2	2	149	67	100	82
63	760 840 457	1	1	263	86	106	101
75	760 840 458	1	1	320	103	121	115
90	760 840 459	1	1	475	121	131	134
110	760 840 460	1	1	805	142	142	156
125	760 840 461	1	1	1080	163	151	175
160	760 840 470	1	1	1950	183	161	195

Transition Fittings



Threaded Male Coupling

Model:

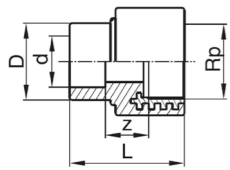
- Polypropylene - Random (PP-R)
- Brass Male - Threaded
- EN ISO 15874, MS 2286
- Colour: grey
- Nickel Coating

d-R (mm/inch)	Code	(DZR Brass) Code	GP	g	D (mm)	L (mm)	z (mm)
20-1/2	300 206 241	300 206 841	0	75	28	56	25
20-3/4	300 206 242	300 206 842	0	98	34	59	24
25-1/2	300 206 243	300 206 843	0	75	33	58	25
25-3/4	300 206 244	300 206 844	0	96	34	59	24
32-3/4	300 206 245	300 206 845	0	99	42	61	23
32-1	300 206 246	300 206 846	0	204	43	75	22
40-1 1/4	300 206 248	300 206 848	0	402	54	90	31
50-1 1/2	300 206 249	300 206 849	0	526	68	93	31
63-2	300 206 250	300 206 850	0	719	86	105	30

Threaded Female Coupling

Model:

- Polypropylene - Random (PP-R)
- Brass Female - Threaded
- EN ISO 15874, MS 2286
- Colour: grey
- Nickel Coating

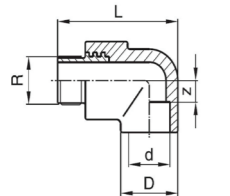


d-Rp (mm/inch)	Code	(DZR Brass) Code	GP	g	D (mm)	L (mm)	z (mm)
20-1/2	300 206 271	300 206 861	0	50	28	41	25
20-3/4	300 206 272	300 206 862	0	67	34	42	26
25-1/2	300 206 273	300 206 863	0	52	33	43	25
25-3/4	300 206 274	300 206 864	0	65	34	42	24
32-3/4	300 206 275	300 206 865	0	69	42	44	22
32-1	300 206 276	300 206 866	0	130	43	56	23
40-1 1/4	300 206 278	300 206 868	0	274	54	69	31
50-1 1/2	300 206 279	300 206 869	0	384	68	72	31
63-2	300 206 280	300 206 870	0	492	86	80	31

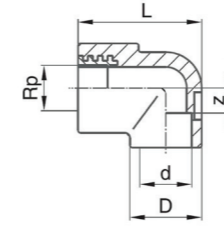
Threaded Male Elbow 90°

Model:

- Polypropylene - Random (PP-R)
- Brass Male - Threaded
- EN ISO 15874, MS 2286
- Colour: grey
- Nickel Coating



d-R (mm/inch)	Code	(DZR Brass) Code	GP	g	D (mm)	L (mm)	z (mm)
20-1/2	300 206 291	300 206 881	0	81	30	65	12
20-3/4	300 206 292	300 206 882	0	102	30	66	12
25-1/2	300 206 293	300 206 883	0	94	34	72	14
25-3/4	300 206 294	300 206 884	0	113	34	74	14
32-3/4	300 206 295	300 206 885	0	128	42	82	16
32-1	300 206 296	300 206 886	0	165	44	95	19



Threaded Female Elbow 90°

Model:

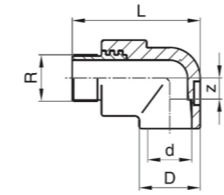
- Polypropylene - Random (PP-R)
- Brass Female - Threaded
- EN ISO 15874, MS 2286
- Colour: grey
- Nickel Coating

d-Rp (mm/inch)	Code	(DZR Brass) Code	GP	g	D (mm)	L (mm)	z (mm)
20-1/2	300 206 301	300 206 891	0	59	30	50	12
20-3/4	300 206 302	300 206 892	0	72	30	50	12
25-1/2	300 206 303	300 206 893	0	70	34	57	14
25-3/4	300 206 304	300 206 894	0	93	34	57	14
32-3/4	300 206 305	300 206 895	0	96	42	65	16
32-1	300 206 306	300 206 896	0	163	44	77	19

Threaded Male Elbow 90° with Bracket

Model:

- Polypropylene - Random (PP-R)
- Brass Male - Threaded
- Colour: grey
- Nickel Coating

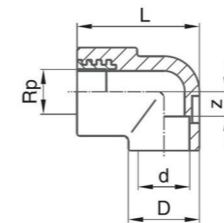


d-R (mm/inch)	Code	(DZR Brass) Code	GP	g	D (mm)	L (mm)	z (mm)
20-1/2	300 206 321	300 206 901	0	83	30	65	12

Threaded Female Elbow 90° with Bracket

Model:

- Polypropylene - Random (PP-R)
- Brass Female - Threaded
- Colour: grey
- Nickel Coating



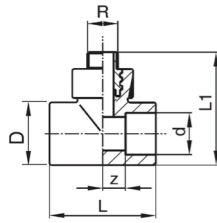
d-Rp (mm/inch)	Code	(DZR Brass) Code	GP	g	D (mm)	L (mm)	z (mm)
20-1/2	300 206 331	300 206 905	0	61	30	50	12



Threaded Male Tee

Model:

- Polypropylene - Random (PP-R)
- Brass Male - Threaded
- EN ISO 15874, MS 2286
- Colour: grey
- Nickel Coating



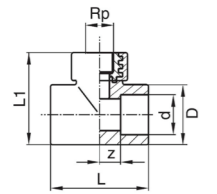
d-R (mm/inch)	Code	(DZR Brass) Code	GP	g (mm)	D (mm)	L (mm)	L1 (mm)	z (mm)
20-1/2	300 206 341	300 206 911	0	85	29	55	65	12
25-1/2	300 206 343	300 206 913	0	97	34	64	72	14
25-3/4	300 206 344	300 206 914	0	119	34	64	74	14
32-3/4	300 206 345	300 206 915	0	145	44	77	81	19
32-1	300 206 346	300 206 916	0	247	43	77	96	19



Threaded Female Tee

Model:

- Polypropylene - Random (PP-R)
- Brass Female - Threaded
- EN ISO 15874, MS 2286
- Colour: grey
- Nickel Coating



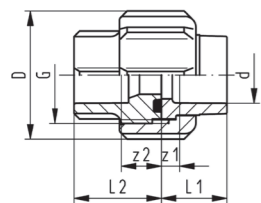
d-Rp (mm/inch)	Code	(DZR Brass) Code	GP	g (mm)	D (mm)	L (mm)	L1 (mm)	z (mm)
20-1/2	300 206 351	300 206 921	0	62	29	55	50	12
25-1/2	300 206 353	300 206 923	0	74	34	64	57	14
25-3/4	300 206 354	300 206 924	0	86	34	64	57	14
32-3/4	300 206 356	300 206 926	0	114	44	77	64	19
32-1	300 206 357	300 206 927	0	174	43	77	78	19



Union Socket PP-H - PN10

Model:

- Fusion socket metric
- Material: PP-H



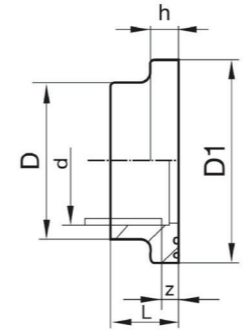
d (mm)	Code	GP	g (mm)	D (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (inch)
25	727 510 157	1	62	58	21	28	5	12	1 1/4
32	727 510 158	1	79	65	23	30	5	12	1 1/2
40	727 510 159	1	137	79	25	34	5	14	2
50	727 510 160	1	180	91	28	39	5	16	2 1/4
63	727 510 161	1	312	111	32	47	5	20	2 3/4



Flange Adaptor

Model:

- Polypropylene - Random (PP-R)
- Colour: grey
- Socket fusion



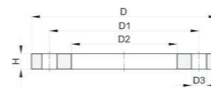
d (mm)	Code	GP	g (mm)	D (mm)	L (mm)	D1 (mm)	z (mm)	h (mm)
40	300 206 415	0	30	50	28	62	6	10
50	300 206 416	0	45	61	31	74	6	12
63	300 206 417	0	74	76	35	91	6	14
75	300 206 418	0	110	90	37	108	6	13
90	300 206 419	0	163	108	40	128	6	16
110	300 206 420	0	242	131	45	151	6	19
125	300 206 421	0	337	148	53	169	10	20



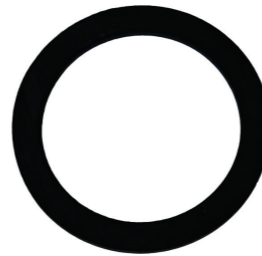
Backing Flange

Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Bolt circle PN 10



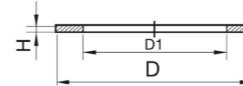
d (mm)	Code	SP	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL (mm)
40	727 700 209	1	140	100	54	18	18	4
50	727 700 210	1	150	110	67	18	20	4
63	727 700 211	1	165	125	85	18	20	4
75	727 700 212	1	185	145	100	18	20	8
90	727 700 213	1	200	160	120	18	22	8
110	727 700 214	1	220	180	147	18	22	8
125	727 700 815	1	250	210	150	18	22	8



Flat Gasket EPDM

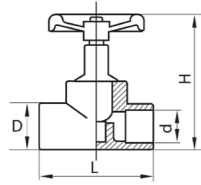
Model:

- EPDM Material
- Intergrated Fixation
- Suited for all metric Flange Adaptors
- Hardness approx. 65° Shore



d (mm)	Code	SP	g (mm)	D (mm)	D1 (mm)	H (mm)
40	748 400 309	5	8	59	40	3
50	748 400 310	5	12	71	50	3
63	748 400 311	5	17	88	63	3
75	748 400 312	1	24	104	75	3
90	748 400 313	1	32	123	90	3
110	748 400 314	1	62	148	110	4
125	748 400 315	1	58	168	125	4

Valves



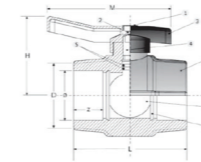
Stop Valve PP-R

Model:

- Polypropylene - Random (PP-R)
- Colour: grey
- EPDM Gasket
- Nickel Coating

d (mm)	Code	(DZR Brass) Code	GP	g	L (mm)	H (mm)	D (mm)
20	300 206 832	300 206 835	0	120	72	82	29
25	300 206 833	300 206 836	0	207	84	90	37
32	300 206 834	300 206 837	0	370	104	95	47

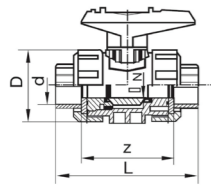
Ball Valve with Handle



Model:

- Polypropylene - Random (PP-R)
- Colour: beige

d (mm)	Code	GP	g	L (mm)	M (mm)	H (mm)	D (mm)	z (mm)
20	760 840 402	60	122	73.5	85	51.5	30.0	17.0
25	760 840 403	60	130	77.5	85	51.5	35.8	18.5
32	760 840 404	32	205	89.0	108	58.0	44.5	21.5
40	760 840 405	25	355	97.5	108	70.0	56.0	22.5
50	760 840 406	13	610	112.0	108	75.0	71.0	24.5
63	760 840 407	7	935	131.5	150	101.0	89.5	27.5
75	760 840 408	5	1640	151.0	150	106.0	102.5	31.0
90	760 840 409	5	2165	188.5	305	140.0	108.0	36.0
110	760 840 410	3	3210	214.0	305	150.0	130.0	41.5
125	760 840 411	1	4800	240.0	305	165.0	160.0	50.0



Ball Valve Type 546 PP-H (PN10) with Fusion Socket Metric

Model:

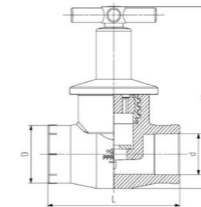
- For easy installation and removal
- Material: PP-H

Option:

- Pneumatic or electric actuators from GF
- Individual configuration of the valve

d (mm)	Code	SP	g	D (mm)	L (mm)	z (mm)
20	167 546 002	1	115	50	95	66
25	167 546 003	1	180	58	109	77
32	167 546 004	1	255	68	119	83
40	167 546 005	1	440	84	135	99
50	167 546 006	1	610	97	147	105
63	167 546 007	1	1145	124	168	117

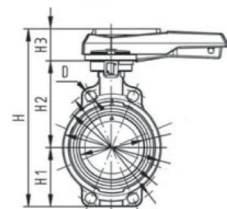
Chrome Handle Valve PP-R



Model:

- Polypropylene - Random (PP-R)
- Colour: grey

d (mm)	Code	GP	g	L (mm)	H (mm)	D (mm)
20	300 206 814	0	320	111.5	72	29
25	300 206 815	0	389	119.0	84	34
32	300 206 816	0	560	138.7	104	44



Butterfly Valves Type 567 PP-H (PN10) Hand Lever with Ratchet Settings

Model:

- Polypropylene Homopolymeride (PP-H)
- Double internal shaft sealing on both sides
- Double eccentric operating principle
- Standard 5° ratchet setting / fine adjustment as option
- Lockable

d (mm)	Code	SP	g	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)
63	167 567 002	1	969	19	264	77	134	54
75	167 567 003	1	1061	19	277	83	140	54
90	167 567 004	1	1191	19	289	89	146	54
110	167 567 005	1	1751	19	325	104	167	55

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