



GREENFIT
Pipe and fittings

GREENFIT



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ABOUT US

Greenfit was founded in 2014, since then has been producing the most advanced plastic pipe and fitting systems made of PPRC, PVC and PP (Mute System). Our Headquarters and Manufacturing Facilities are based in Ergene, Tekirdag, Turkey.

With our experienced management team and diverse workforce who are dedicated to innovation, quality and customer satisfaction, Our focus is to provide premium quality of piping and fitting solutions to our Worldwide Customers. Greenfit Products are now available in retail outlets, hypermarkets, supermarkets, hardware and speciality stores and wholesalers in 41 different countries.

Since produce the highest quality product and service was a prime concern of Greenfit, We have been confirmed by ISO 9001:2015 Certification. In addition; Our products have been testing by TSI (Turkish Standard Institution) every year. Finally, our products have tested by the internationally recognized SKZ (SKZ Das Kunststoff-Zentrum) company and a successful result has obtained.

Greenfit Products are made of raw materials produced by renowned World Manufacturers that follow all international quality norms and requirements. Greenfit PP-R Products are made of 97% high quality polypropylene and 3% of non-toxic additive mix which contains no harmful chemicals. The most important they are 100% recyclable and it takes less energy to produce and run. PP-R systems when compared to traditional piping systems and longevity. They are designed to last 3-4 times longer and resulting in less possible waste. Our Quality Control Team ensures that all products manufactured are stringent to International Quality Standards.





OUR MISSION

- To keep up with the global competition and technological developments, to determine the needs and expectations of customers correctly and to perform all necessary infrastructure and staff.

- Defining all our stakeholders (especially our customers), defining their demands, defining the product and service steps that will meet these demands and expectations, reviewing, improving and improving these definitions with all stakeholders when necessary.

- Our chain of ethics and values, starting from the source to the end user; to operate and develop in an efficient and sustainable way with our experienced, knowledgeable and dedicated human resources at all levels.

- As an inevitable fact of technology; minimizing virtual security concern.

- The information of all our stakeholders; maintain awareness of information security in the perspective of confidentiality, integrity and accessibility.

- Prioritizing work and worker safety by adopting a "Safety First" and zero risk perspective.

- To be a company based on "Right person for the right job, right job for the right person", where everyone has the right to speak in the working environment, acting with the awareness of teamwork and increasing competences, managing and contributing to its own structure.

- Establishing, operating and maintaining a high standard quality, information security, environment and occupational safety infrastructure that supports the vision of leadership and growth in the current market and possible new markets.



**GREENFIT**
Pipe and fittings

OUR VISION

- Increasing product diversity without compromising the principle of customer satisfaction, obtaining new markets and gaining more control in existing markets.

- To meet the needs and expectations of the customers by creating a working environment which will continuously increase the quality of the existing products with the participation of the employees.

- Distinguishing between potential competitors by continuously improving technological progress.

- Based on the satisfaction of all our stakeholders, with internal and external corporate ties; strengthening our ties by establishing corporate roles, responsibilities, and solution processes.

- Focusing on natural and renewable energy in the use of energy and resources; to leave a more beautiful and livable environment to future generations with our social responsibility awareness and environmentalist direction.

- Risk-based and process-logic perspective to be flawless.

- The effectiveness of management systems; regularly review, measure and evaluate national / international regulations, regulations, continuous improvement, improvement, efficiency, competence and conformity parameters in accordance with the relevant standard requirements; to be at the top of all systematic approaches.

OUR MANAGEMENT SYSTEMS POLICIES



- OUR QUALITY (MANAGEMENT SYSTEM) POLICY :

"In order to ensure the full satisfaction of our customers and to be the indispensable choice of all our products, in all production stages as a continuous development understanding, the desired quality, delivery time and the most economical way to produce. Greenfit Plastik in this sense; to improve the quality of the product, to increase the quality of our employees, to ensure the compliance with the standard conditions for the continuous improvement of the Quality Management System with a risk-based perspective and to carry out continuous quality awareness for all employees and undertakes continuous improvement.

- OUR INFORMATION SECURITY (MANAGEMENT SYSTEM) POLICY :

"Greenfit Plastik is continuously reviewing risk management and continuous improvement / development working culture by providing a process in accordance with the principles of ensuring confidentiality, integrity and accessibility after defining all the information assets of the existing / existing assets. While the standard protects the compliance of international legislation, legal and procedural requirements, all the information of its employees and all stakeholders outside of the company, including our customers, on the other hand, our company, which has increased its awareness of information security, has embraced the company as a policy by establishing its satisfaction, corporate roles, responsibilities and responsibilities, and the necessary information-technology solutions and processes."



- OUR OCCUPATIONAL HEALTH & SAFETY (MANAGEMENT SYSTEM) POLICY

"To provide a work environment free of occupational accidents and occupational diseases. Our company has determined all risks in production and services point and has adopted as a principle to comply with all international regulations, legal regulations and standard conditions while continuing its functioning by defensive and planned action against these risks." With the participation of our employees with observation and zero risk perspective, the satisfaction, safety and health of all our stakeholders, primarily employees' satisfaction, are in the forefront and are constantly reviewed by audits and observations. Greenfit Plastik is looking for ways to prevent all possible hazardous situations and behaviors; on the other hand, it is committed to increase awareness and culture in terms of occupational health and safety, continuous improvement and continuity of occupational health and safety.

OUR MANAGEMENT SYSTEMS POLICIES



- OUR ENVIRONMENTAL (MANAGEMENT SYSTEM) POLICY:

"To achieve success; transparent, honest, objective way; is to shape the internal and external environment working environment in accordance with international regulations, legal regulations and standard conditions. In doing so; waste management in waste management, proper disposal of possible wastes, optimum use of natural resources and sustainable resource use, identifying pollution at source; to minimize pollution with the protection of air, water and soil quality; to raise awareness of our environment and to raise awareness about our environment by instilling our environmental policy and environmental policy to all our stakeholders, especially our employees and customers; to leave a livable environment to future generations by using products that do not harm human health and environment in all of our activities; It has adopted the policy of working in an environment that is constantly being improved and developed and ensuring its continuity by continuously observing these stages with the perspective of preventing risks.

- OUR HUMAN RESOURCES POLICY:

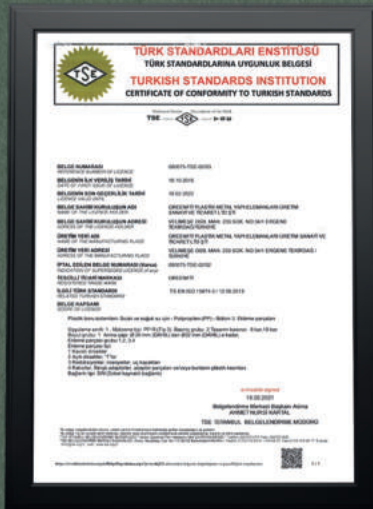
"As a part of the society we live in, based on human rights, built within the framework of respect, love, honesty, impartiality and transparency, and to be in contact with all internal and external issues and elbow, is the basic principle of our policy. Greenfit Plastik, who explores, manages and manages capabilities in the perspective of Human Right to the Right Job, Towards the Right Person, supports the awareness of teamwork, is always open to learning / teaching and changes / developments, integrating these new changes and developments into the corporate culture. corporate loyalty and sense of belonging has always been at the forefront. G.D.P.R (The General Data Protection Regulation) and other national / international laws and systematically quality management approach, the ownership and confidentiality of information, occupational health and safety, environment and systematic approaches in compliance with our company, disciplined in a way to continuously increase the corporate image; has adopted an innovative, awareness-raising, socially responsible strategy."



- OUR PRINCIPLE, VALUES & SUSTAINABILITY POLICY:

"Greenfit Plastik, which has continuously differentiated itself with its management approach, innovative spirit, dignity, and culture of partnership with all domestic and foreign stakeholders, has a different background, with different talents and all employees including business partners and customers with different ideas. Our company, which has a strong communication network both locally and globally, establishes honest relations with all its stakeholders, has the ability to discover risks beforehand and take necessary measures, comply with national and international laws and regulations, has an understanding of principles and values that adopts equality of opportunity, and believes in fair competition. Quality Management System, Information Security Management System, Occupational Health and Safety Management System and integrated other systems established within our company and tried to develop at every opportunity are proof of this vision. With this integration of Management Systems, the continuity and sustainability strategy has been adopted and implemented by Greenfit Plastik.

OUR CERTIFICATES



OUR CERTIFICATES







TH 41 COUNTRIES...

LINEAR EXPANSION TABLE FOR PPR(C) PIPES



Pipe Length		Temperature Difference DT (°C)							
L(m)	10	20	30	40	50	60	70	80	
1.0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	
2.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	
3.0	4.5	9.0	13.5	18.0	22.5	27.0	31.5	36.0	
4.0	6.0	12.0	18.0	24.0	30.0	36.0	42.0	48.0	
5.0	7.0	15.0	22.5	30.0	37.5	45.0	52.5	60.0	
6.0	9.0	18.0	27.0	36.0	45.0	54.0	63.0	72.0	
7.0	10.5	21.0	31.5	42.0	52.5	63.0	73.5	84.0	
8.0	12.0	24.0	36.0	48.0	60.0	72.0	84.0	96.0	
9.0	13.5	27.0	40.5	54.0	67.5	81.0	94.5	108.0	
10.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	

LINEAR EXPANSION TABLE FOR PPR(C) ALUMINIUM FOILED PIPES

Pipe Length		Temperature Difference DT (°C)							
L(m)	10	20	30	40	50	60	70	80	
1.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	
2.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	
3.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	
4.0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	
5.0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	
6.0	1.8	3.6	5.4	7.2	9.0	10.8	12.8	14.4	
7.0	2.1	4.2	6.3	8.4	10.5	12.6	14.7	16.8	
8.0	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	
9.0	2.7	5.4	8.1	10.8	13.5	16.2	18.9	21.6	
10.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	



PPR(C) PIPES TECHNICAL DATA

Characteristics		Unit	Test Method	Value
Density	+23°C	g/cm3	ISO 1183	0,909
Melting Index	MFR 190/5	g/10 min	ISO 1133	0,55
	MFR 230/2,16	g/10 min	ISO 1133	0,30
	MFR 230/5	g/10 min	ISO 1133	1,20
Volume Flow Index	MVR 230/2,16	cm3/10 min	ISO 1133	0,4
Break-off Strength	(50 mm/min)	Mpa		25
Break-off Strain	(50 mm/min)	%	ISO 527/1+2	10
Shore D Toughness	(3 sec value)	-	DIN 53505	65
Charpy Flow (Strength)	+23°C	kJ/m2	ISO 179/1eU	43
	0°C	kJ/m2	ISO 179/1eU	
	-30°C	kJ/m2	ISO 179/1eU	
Charpy Mixed Blow Strength	+23°C	kJ/m2	ISO 179/1eA	52
	0°C	kJ/m2	ISO 179/1eA	7
	-30°C	kJ/m2	ISO 179/1eA	2,5
Melting Range		°C	DSC	150-160
Lineat Thermo Expansion Coefficient		1/K	DIN 53752	1,5*10-4
Thermal Conductivity		W/mK	DIN 52612	0,24
Exterior Strength		Ohm	DIN VDE 0303, T3	>1014

Operating Time			
30 Days / Year	75	5	17.27
		10	13.79
		25	11.74
		45	10.18
	80	5	13.50
		10	13.80
		25	11.14
		42.5	9.79
	85	5	12.42
		10	11.87
		25	10.14
		37.5	9.18
60 Days / Year	75	5	11.39
		10	10.94
		25	8.86
		35	8.16
	80	5	14.11
		10	13.57
		25	11.59
		45	10.05
	85	5	13.12
		10	12.54
		25	10.56
		35	9.41
90 Days / Year	75	5	12.03
		10	11.52
		25	9.22
		35	8.48
	80	5	11.04
		10	9.76
		25	7.81
		30	7.46
	85	5	14.02
		10	13.38
		25	11.33
		45	9.82
90 Days / Year	75	5	12.80
		10	12.35
		25	10.05
		37.5	9.08
	80	5	11.81
		10	10.72
		25	8.58
		32.5	8.03
	85	5	10.59
		10	8.96
		25	7.17



Temperature (°C)



Service Life (Year)



Operating Pressure (Bar)

INSTALLATION INFORMATION OF PPR PIPE AND FITTINGS **(Welding Tools Temperature Value - 260 °C)**

Pipe Diameter (mm)	Weld Depth (mm)	Installation Time (W.Machine) (sec)	Installation Time (Pieces) (sec)	Cooling Time (sec)
20 mm.	14.5	6	4	3
25 mm.	16	8	5	4
32 mm.	18	9	7	5
40 mm.	20.5	13	7	5
50 mm.	23.5	19	8	6
63 mm.	27.5	25	8	8
75 mm.	30	31	11	9
90 mm.	33	41	12	10
110 mm.	37	51	13	11
125 mm.	40	61	14	14
160 mm.	45	74	19	20

CLAMP'S DISTANCES ON PIPES

Different factors such as the type, diameter, weight and water temperature of the pipes can change the clamp distances. According to this variability, the approximate values are as follows. Also, in vertical installations, this rate (depending on the structure) may increase by 1.5 times more distances.

*** Clamp's Distances On PPR Pipes**

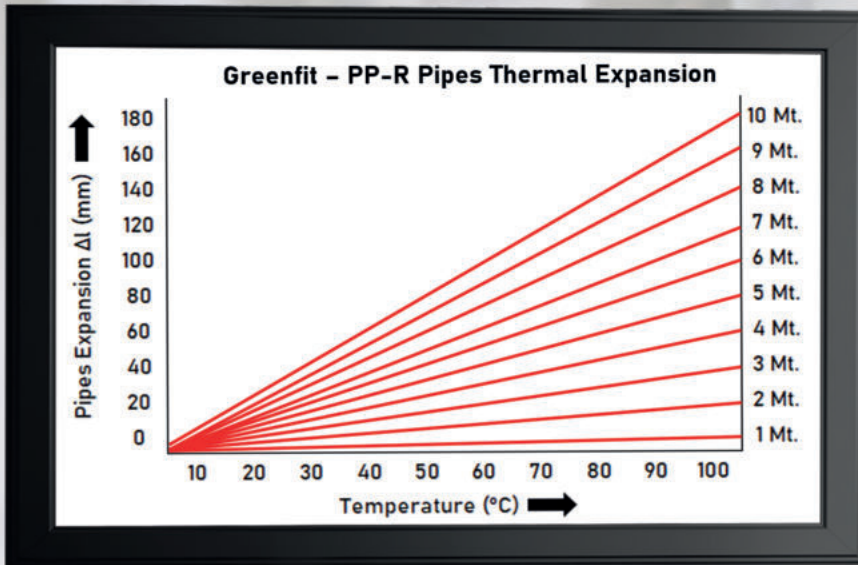
d / °C	0 °C	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C
20 mm.	85 cm.	60 cm.	60 cm.	60 cm.	60 cm.	55 cm.	50 cm.
25 mm.	105 cm.	75 cm.	75 cm.	70 cm.	70 cm.	65 cm.	60 cm.
32 mm.	125 cm.	90 cm.	90 cm.	80 cm.	80 cm.	75 cm.	75 cm.
40 mm.	140 cm.	100 cm.	100 cm.	90 cm.	90 cm.	85 cm.	80 cm.
50 mm.	165 cm.	120 cm.	120 cm.	110 cm.	110 cm.	100 cm.	95 cm.
63 mm.	190 cm.	140 cm.	140 cm.	130 cm.	130 cm.	115 cm.	105 cm.
75 mm.	205 cm.	150 cm.	150 cm.	140 cm.	140 cm.	125 cm.	115 cm.
90 mm.	220 cm.	160 cm.	160 cm.	150 cm.	150 cm.	140 cm.	125 cm.
110 mm.	250 cm.	180 cm.	180 cm.	170 cm.	170 cm.	160 cm.	140 cm.
125 mm.	255 cm.	190 cm.	185 cm.	180 cm.	180 cm.	165 cm.	155 cm.
160 mm.	270 cm.	210 cm.	200 cm.	195 cm.	195 cm.	180 cm.	175 cm.

*** Clamp's Distances On Composite Pipes**

d / °C	0 °C	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C
20 mm.	120 cm.	90 cm.	90 cm.	85 cm.	85 cm.	80 cm.	70 cm.
25 mm.	140 cm.	105 cm.	105 cm.	95 cm.	95 cm.	90 cm.	80 cm.
32 mm.	160 cm.	120 cm.	120 cm.	110 cm.	110 cm.	105 cm.	95 cm.
40 mm.	180 cm.	135 cm.	135 cm.	125 cm.	125 cm.	120 cm.	110 cm.
50 mm.	205 cm.	155 cm.	155 cm.	145 cm.	145 cm.	135 cm.	130 cm.
63 mm.	230 cm.	175 cm.	175 cm.	165 cm.	165 cm.	135 cm.	130 cm.
75 mm.	235 cm.	180 cm.	180 cm.	170 cm.	170 cm.	140 cm.	135 cm.
90 mm.	240 cm.	185 cm.	185 cm.	175 cm.	175 cm.	145 cm.	140 cm.
110 mm.	250 cm.	190 cm.	190 cm.	180 cm.	180 cm.	150 cm.	145 cm.
125 mm.	255 cm.	195 cm.	195 cm.	185 cm.	185 cm.	160 cm.	155 cm.
160 mm.	265 cm.	200 cm.	200 cm.	195 cm.	195 cm.	175 cm.	170 cm.

*** Clamp's Distances On Aluminium Foiled Pipes**

d / °C	0 °C	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C
20 mm.	155 cm.	120 cm.	120 cm.	110 cm.	110 cm.	100 cm.	90 cm.
25 mm.	170 cm.	130 cm.	130 cm.	120 cm.	120 cm.	110 cm.	100 cm.
32 mm.	195 cm.	150 cm.	150 cm.	140 cm.	140 cm.	130 cm.	120 cm.
40 mm.	220 cm.	170 cm.	170 cm.	160 cm.	160 cm.	150 cm.	140 cm.
50 mm.	245 cm.	190 cm.	190 cm.	180 cm.	180 cm.	170 cm.	160 cm.
63 mm.	270 cm.	210 cm.	210 cm.	200 cm.	200 cm.	190 cm.	180 cm.



Expansion Calculation

$$\Delta l = L \times \Delta t \times \alpha$$

Δl = Change in pipe length (mm)

Δt = Temperature change (°C)

α = Expansion Coefficient

L = Pipe Length (m)

Expansion Calculation

$$\Delta l = L \times \Delta t \times \alpha$$

Pipes : 0,150

Composite Pipes : 0,035

A.Foiled Pipes : 0,030

Polypropylene Pipe Expansion Calculation

Temperature change (Δt) = 30°C

Pipe Length (L) = 4 m

Elongation amount (ΔL) = 30 x 4 x α (0.15) = 18 mm

Composite Pipe Expansion Calculation

Temperature change (Δt) = 30°C

Pipe Length (L) = 4 m

Elongation amount (ΔL) = 30 x 4 x α (0.35) = 4,2 mm

Aluminium Foiled Pipe Expansion Calculation

Temperature change (Δt) = 30°C

Pipe Length (L) = 4 m

Elongation amount (ΔL) = 30 x 4 x α (0.30) = 3,6 mm



PP-R FiberGlass Reinforced Pipe :

PP-R FiberGlass Reinforced Pipe PP-R/GF/PP-R has three layers, inner and outer layers are made of PP-R, middle layer is made from a special mixture of PP-R and Fiberglass raw materials.

Main Advantages of the PP-R FiberGlass Reinforced Pipes :

- 1) Easy and fast installation, it Do not require peeling before welding process.
- 2) 75% less linear expansion than a Standard PP-R pipe.
- 3) More stiff than a standard PP-R pipe.
- 4) Lighter than PP-R Aluminium Foil Reinforced Pipe.

Application Areas :

- 1) They are used all over the world and not limited to applications like: Bulk Water and Treated Water, Sewer, Hydro Power installations, Desalination Plants, irrigation, and Industrial corrosive applications.
- 2) These pipes are corrosion resistant, light weight, high strength, smooth bore, have superior hydraulic characteristics and an extended lifespan of more than 150 years.

Welding Time Comparison :

- * Welding Time Comparison experiment was performed in a laboratory environment with $\varnothing$ -20mm Aluminium Foiled PP-R Fiberglass Reinforced Pipe and $\varnothing$ -20mm Aluminium Foiled PP-R Pipe .
- * Calculations were based on 300 weldings similar to installation process of a plumbing system in a single apartment
- * Welding time of P-R Glassfiber Reinforced Pipe: 20.8 sec.
- * Welding time of P-R Aluminium Foiled Pipe: 30.3 sec.
- * Welding time advantage of P-R Glassfiber Reinforced Pipe: 9.5 sec.
- * Total time saved in 300 weldings : 2.850 sec.

PPRC PIPES PRODUCTS





PIPE PN 16

Product Code	Size	S	D	Quantity
GF.BR01.DZB.200016	Ø 20	2.8	20.3	140/4.00
GF.BR01.DZB.250016	Ø 25	3.5	25.3	100/4.00
GF.BR01.DZB.320016	Ø 32	4.4	32.3	60/4.00
GF.BR01.DZB.400016	Ø 40	5.5	40.4	40/4.00
GF.BR01.DZB.500016	Ø 50	6.9	50.5	32/4.00
GF.BR01.DZB.630016	Ø 63	8.6	63.6	20/4.00
GF.BR01.DZB.750016	Ø 75	10.3	75.7	16/4.00
GF.BR01.DZB.900016	Ø 90	12.3	90.9	8/4.00
GF.BR01.DZB.110016	Ø 110	15.1	111	4/4.00
GF.BR01.DZB.125016	Ø 125	17.1	126.2	4/4.00
GF.BR01.DZB.160016	Ø 160	18.1	161.2	4/4.00



PIPE PN 20

Product Code	Size	S	D	Quantity
GF.BR01.DZB.200020	Ø 20	3.4	20.3	140/4.00
GF.BR01.DZB.250020	Ø 25	4.2	25.3	100/4.00
GF.BR01.DZB.320020	Ø 32	5.4	32.3	60/4.00
GF.BR01.DZB.400020	Ø 40	6.7	40.4	40/4.00
GF.BR01.DZB.500020	Ø 50	8.3	50.5	32/4.00
GF.BR01.DZB.630020	Ø 63	10.5	63.6	20/4.00
GF.BR01.DZB.750020	Ø 75	12.5	75.7	16/4.00
GF.BR01.DZB.900020	Ø 90	15	90.9	8/4.00
GF.BR01.DZB.110020	Ø 110	18.3	111	4/4.00
GF.BR01.DZB.125020	Ø 125	20.8	126.2	4/4.00
GF.BR01.DZB.160020	Ø 160	26.6	161.2	4/4.00

COMPOSITE PIPE PN 20

Product Code	Size	S	D	Quantity
GF.BR01.GFD.200020	Ø 20	2.8	20.3	140/4.00
GF.BR01.GFD.250020	Ø 25	3.5	25.3	100/4.00
GF.BR01.GFD.320020	Ø 32	4.4	32.3	60/4.00
GF.BR01.GFD.400020	Ø 40	5.5	40.4	40/4.00
GF.BR01.GFD.500020	Ø 50	6.9	50.5	32/4.00
GF.BR01.GFD.630020	Ø 63	8.6	63.6	20/4.00
GF.BR01.GFD.750020	Ø 75	10.3	75.7	16/4.00
GF.BR01.GFD.900020	Ø 90	12.3	90.9	8/4.00
GF.BR01.GFD.110020	Ø 110	15.1	111	4/4.00
GF.BR01.GFD.125020	Ø 125	17.1	126.2	4/4.00

COMPOSITE PIPE PN 25

Product Code	Size	S	D	Quantity
GF.BR01.GFD.200025	Ø 20	3.4	20.3	140/4.00
GF.BR01.GFD.250025	Ø 25	4.2	25.3	100/4.00
GF.BR01.GFD.320025	Ø 32	5.4	32.3	60/4.00
GF.BR01.GFD.400025	Ø 40	6.7	40.4	40/4.00
GF.BR01.GFD.500025	Ø 50	8.3	50.5	32/4.00
GF.BR01.GFD.630025	Ø 63	10.5	63.6	20/4.00
GF.BR01.GFD.750025	Ø 75	12.5	75.7	16/4.00
GF.BR01.GFD.900025	Ø 90	15	90.9	8/4.00
GF.BR01.GFD.110025	Ø 110	18.3	111	4/4.00
GF.BR01.GFD.125025	Ø 125	20.8	126.2	4/4.00

ALUMINIUM FOILED PIPE PN 25

Product Code	Size	S	D	Quantity
GF.BR01.AFD.200025	Ø 20	3.4	20.3	140/4.00
GF.BR01.AFD.250025	Ø 25	4.2	25.3	100/4.00
GF.BR01.AFD.320025	Ø 32	5.4	32.3	60/4.00
GF.BR01.AFD.400025	Ø 40	6.7	40.4	40/4.00
GF.BR01.AFD.500025	Ø 50	8.3	50.5	32/4.00
GF.BR01.AFD.630025	Ø 63	10.5	63.6	20/4.00

PPRC FITTING PRODUCTS





CROSSOVER PN 20

Product Code	Size	S	D	L	Quantity
GF.BR01.KVS.200000	Ø 20	3.4	20.3	350	90
GF.BR01.KVS.250000	Ø 25	4.2	25.3	350	60
GF.BR01.KVS.320000	Ø 32	5.4	32.3	350	35



TEE CROSSOVER PN 25

Product Code	Size	D1	E	L	Quantity
GF.YP01.MNK.200000	Ø 20	19,5	14.5	56	100
GF.YP01.MNK.250000	Ø 25	24,5	16	63	60



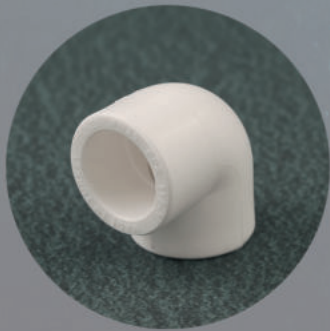
CROSSOVER WITH SOCKET PN 25

Product Code	Size	D1	E	L	Quantity
GF.YP01.MNK.200000	Ø 20	19,5	14.5	56	120
GF.YP01.MNK.250000	Ø 25	24,5	16	63	75
GF.YP01.MNK.320000	Ø 32	31,5	18	74	40



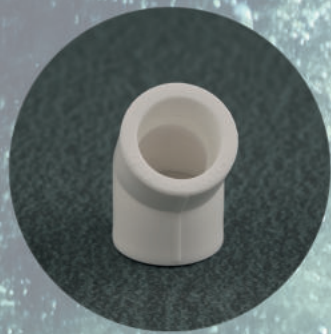
CROSSOVER WITH SOCKET - SHORT PN 25

Product Code	Size	Dl	E	L	Quantity
GF.YP01.MKK.200000	Ø 20	19,5	14,5	96	200
GF.YP01.MKK.250000	Ø 25	24,5	16	105	120
GF.YP01.MKK.320000	Ø 32	31,5	18	117	60



90° ELBOW PN 25

Product Code	Size	Dl	E	Quantity
GF.YP01.DRS.200090	Ø 20x90°	19,5	14,5	400
GF.YP01.DRS.250090	Ø 25x90°	24,5	16	200
GF.YP01.DRS.320090	Ø 32x90°	31,5	18	120
GF.YP01.DRS.400090	Ø 40x90°	39,4	20,5	60
GF.YP01.DRS.500090	Ø 50x90°	49,4	23,5	40
GF.YP01.DRS.630090	Ø 63x90°	62,5	27,5	18
GF.YP01.DRS.750090	Ø 75x90°	74,7	30	12
GF.YP01.DRS.900090	Ø 90x90°	89,7	33	6
GF.YP01.DRS.110090	Ø 110x90°	109,7	37	2
GF.YP01.DRS.125090	Ø 125x90°	110	40	2
GF.YP01.DRS.160090	Ø 160x90°	260	45	1



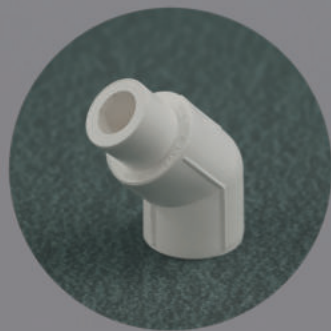
45° ELBOW PN 25

Product Code	Size	D1	E	Quantity
GF.YP01.DRS.200045	Ø 20x45°	19.5	14.5	400
GF.YP01.DRS.250045	Ø 25x45°	24.5	16	250
GF.YP01.DRS.320045	Ø 32x45°	31.5	18	120
GF.YP01.DRS.400045	Ø 40x45°	39.4	20.5	80
GF.YP01.DRS.500045	Ø 50x45°	49.4	23.5	40
GF.YP01.DRS.630045	Ø 63x45°	62.5	27.5	20
GF.YP01.DRS.750045	Ø 75x45°	74.7	30	12
GF.YP01.DRS.900045	Ø 90x45°	89.7	33	4
GF.YP01.DRS.110045	Ø 110x45°	109.7	37	2



90° TAIL ELBOW PN 25

Product Code	Size	D1	D2	E	Quantity
TM.YP01.DRK.200090	Ø 20x90°	19.5	20.3	14.5	300
GF.YP01.DRK.250090	Ø 25x90°	24.5	25.3	16	200



45° TAIL ELBOW PN 25

Product Code	Size	D1	D2	E	Quantity
TM.YP01.DRK.200045	Ø 20x45°	19,5	20.3	14.5	300
GF.YP01.DRK.250045	Ø 25x45°	24,5	25.3	16	200
TM.YP01.DRK.320045	Ø 32x45°	31,5	32.3	18	100

REDUCTION ELBOW PN 25

Product Code	Size	D1	E	D2	L	E2	Quantity
GF.YP01.DRR.252000	Ø 25/20	24.5	16	19.5	14.5	24	300
GF.YP01.DRR.322000	Ø 32/20	31.5	18	19.5	14.5	26	160
GF.YP01.DRR.322500	Ø 32/25	31.5	18	24.5	16	27	160

SOCKET PN 25

Product Code	Size	D1	D2	E	Quantity
GF.YP01.MNS.200000	Ø 20	19.5	34	14.5	500
GF.YP01.MNS.250000	Ø 25	24.5	39	16	300
GF.YP01.MNS.320000	Ø 32	31.5	45	18	160
GF.YP01.MNS.400000	Ø 40	39.4	50	20.5	100
GF.YP01.MNS.500000	Ø 50	49.4	58	23.5	50
GF.YP01.MNS.630000	Ø 63	62.5	67	27.5	30
GF.YP01.MNS.750000	Ø 75	74.7	75	30	24
GF.YP01.MNS.900000	Ø 90	89.7	82	33	12
GF.YP01.MNS.110000	Ø 110	109.7	91	37	6
GF.YP01.MNS.125000	Ø 125	123.9	88	40.5	6
GF.YP01.MNS.160000	Ø 160	158.6	97	45	4

REDUCTION SOCKET PN 25

Product Code	Size	D1	E	D2	L	E2	Quantity
TM.YP01.MRD.252000	Ø 25/20	19.5	16	19.5	14.5	24	400
TM.YP01.MRD.322500	Ø 32/25	24.5	18	24.5	16	27	250





REDUCTION PN 25

Product Code	Size	D1	L	E	Quantity
GF.YP01.RED.252000	Ø 25/20	19.5	37	14.5	600
GF.YP01.RED.322000	Ø 32/20	19.5	39	14.5	400
GF.YP01.RED.322500	Ø 32/25	24.5	43	16	360
GF.YP01.RED.402000	Ø 40/20	19.5	41	14.5	200
GF.YP01.RED.402500	Ø 40/25	24.5	43	16	200
GF.YP01.RED.403200	Ø 40/32	31.5	48	18	160
GF.YP01.RED.502500	Ø 50/25	24.5	43	16	100
GF.YP01.RED.503200	Ø 50/32	31.5	48	18	100
GF.YP01.RED.504000	Ø 50/40	39.4	52	20.5	100
GF.YP01.RED.633200	Ø 63/32	31.5	48	18	50
GF.YP01.RED.634000	Ø 63/40	39.4	52	20.5	50
GF.YP01.RED.635000	Ø 63/50	49.4	60	23.5	50
GF.YP01.RED.754000	Ø 75/40	39.4	52	20.5	40
GF.YP01.RED.755000	Ø 75/50	49.4	60	23.5	40
GF.YP01.RED.756300	Ø 75/63	62.5	67	27.5	30
GF.YP01.RED.905000	Ø 90/50	49.4	60	23.5	20
GF.YP01.RED.906300	Ø 90/63	62.5	67	27.5	20
GF.YP01.RED.907500	Ø 90/75	74.7	72	30	16
GF.YP01.RED.110630	Ø 110/63	62.5	67	27.5	12
GF.YP01.RED.110750	Ø 110/75	74.7	72	30	12
GF.YP01.RED.110900	Ø 110/90	89.7	90	33	12
GF.YP01.RED.125900	Ø 125/90	89.2	120	35.5	10
GF.YP01.RED.125110	Ø 125/110	109	120	41.5	8
GF.YP01.RED.160110	Ø 160/110	129	140	48.5	6
GF.YP01.RED.160125	Ø 160/125	134	146	54.5	6

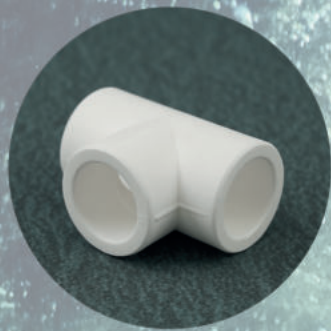




REDUCED TEE PN 25

Product Code	Size	D1	E1	D2	E2	D3	E3	Quantity
GF.YP01.ITE.252020	25x20x20	24.5	16	19.5	14.5	19.5	14.5	200
GF.YP01.ITE.252025	25x20x25	24.5	16	19.5	14.5	24.5	16	180
TM.YP01.ITE.252520	25x25x20	24.5	16	24.5	16	19.5	14.5	180
GF.YP01.ITE.322020	32x20x20	31.5	18	19.5	14.5	19.5	14.5	100
GF.YP01.ITE.322025	32x20x25	31.5	18	19.5	14.5	24.5	16	100
GF.YP01.ITE.322032	32x20x32	31.5	18	19.5	14.5	31.5	18	100
GF.YP01.ITE.322520	32x25x20	31.5	18	24.5	16	19.5	14.5	100
GF.YP01.ITE.322525	32x25x25	31.5	18	24.5	16	24.5	16	100
GF.YP01.ITE.322532	32x25x32	31.5	18	24.5	16	31.5	18	100
GF.YP01.ITE.402040	40x20x40	39.4	20.5	19.5	14.5	39.5	20.5	60
GF.YP01.ITE.402540	40x25x40	39.4	20.5	24.5	16	39.5	20.5	60
GF.YP01.ITE.403240	40x32x40	39.4	20.5	31.5	18	39.5	20.5	50
GF.YP01.ITE.502050	50x20x50	49.4	23.5	19.5	14.5	49.5	23.5	30
GF.YP01.ITE.502550	50x25x50	49.4	23.5	24.5	16	49.4	23.5	30
GF.YP01.ITE.503250	50x32x50	49.4	23.5	31.5	18	49.4	23.5	30
GF.YP01.ITE.504050	50x40x50	49.4	23.5	39.4	20.5	49.4	23.5	20
GF.YP01.ITE.632063	63x20x63	62.5	27.5	19.5	14.5	62.5	27.5	20
GF.YP01.ITE.632563	63x25x63	62.5	27.5	24.5	16	62.5	27.5	20
GF.YP01.ITE.633263	63x32x63	62.5	27.5	31.5	18	62.5	27.5	20
GF.YP01.ITE.634063	63x40x63	62.5	27.5	39.4	20.5	62.5	27.5	20
GF.YP01.ITE.635063	63x50x63	62.5	27.5	49.4	23.5	62.5	27.5	16
GF.YP01.ITE.752575	75x25x75	74.4	30	24.5	18	74.4	30	10
GF.YP01.ITE.753275	75x32x75	74.4	30	31.5	20.5	74.4	30	10
GF.YP01.ITE.754075	75x40x75	74.4	30	39.5	23.5	74.4	30	10
GF.YP01.ITE.755075	75x50x75	74.4	30	49.4	27.5	74.4	30	10
GF.YP01.ITE.756375	75x63x75	74.4	30	62.5	20.5	74.4	33	10
GF.YP01.ITE.903290	90x32x90	89.7	33	31.5	23.5	89.7	33	5
GF.YP01.ITE.904090	90x40x90	89.7	33	39.5	27.5	89.7	33	5
GF.YP01.ITE.905090	90x50x90	89.7	33	49.4	30	89.7	37	5
GF.YP01.ITE.906390	90x63x90	89.7	33	62.5	23.5	89.7	37	4
GF.YP01.ITE.907590	90x75x90	89.7	33	74.7	27.5	89.7	37	4
GF.YP01.ITE.110411	110x40x110	109.7	37	39.5	30	109.7	37	2
GF.YP01.ITE.115011	110x50x110	109.7	37	49.4	33	109.7	37	2
GF.YP01.ITE.116311	110x63x110	109.7	37	62.5	37.5	109.7	37	2
GF.YP01.ITE.117511	110x75x110	109.7	37	74.7	30	109.7	37	2
GF.YP01.ITE.119011	110x90x110	109.7	37	87.7	33	109.7	37	2





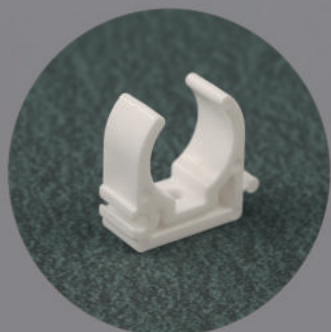
TEE PN 25

Product Code	Size	D1	L	E	Quantity
GF.YP01.TEE.200000	Ø 20	19.5	56	14.5	250
GF.YP01.TEE.250000	Ø 25	24.5	63	16	150
GF.YP01.TEE.320000	Ø 32	31.5	74	18	75
GF.YP01.TEE.400000	Ø 40	39.4	86	20.5	40
GF.YP01.TEE.500000	Ø 50	49.4	102	23.5	25
GF.YP01.TEE.630000	Ø 63	62.5	124	27.5	16
GF.YP01.TEE.750000	Ø 75	74.7	137	30	10
GF.YP01.TEE.900000	Ø 90	89.7	160	33	4
GF.YP01.TEE.110000	Ø 110	109.7	190	37	2
GF.YP01.TEE.125000	Ø 125	123.9	221	40.5	2
GF.YP01.TEE.160000	Ø 160	158.6	280	40	1



DOUBLE TEE PN 25

Product Code	Size	D1	E1	D2	E2	D3	Quantity
GF.YP01.CTE.202020	20x20x20	19.5	14.5	19.5	14.5	14.5	80
GF.YP01.CTE.202525	20x25x25	19.5	14.5	19.5	14.5	14.5	80
GF.YP01.CTE.202025	20x20x25	19.5	14.5	19.5	14.5	14.5	80
GF.YP01.CTE.202520	20x25x20	19.5	14.5	19.5	14.5	14.5	80
GF.YP01.CTE.252020	25x20x20	24.5	16	19.5	14.5	14.5	80
GF.YP01.CTE.252025	25x20x25	24.5	16	19.5	14.5	24.5	80
GF.YP01.CTE.252520	25x25x20	24.5	16	24.5	16	19.5	80
GF.YP01.CTE.252525	25x25x25	24.5	16	24.5	16	24.5	80



SINGLE CLAMP PN 25

Product Code	Size	D1	L	E	Quantity
TM.YP01.KPT.160000	Ø 16	16	28	13	1.000
GF.YP01.KPT.200000	Ø 20	20	32	14.5	1.000
GF.YP01.KPT.250000	Ø 25	25	36	16	900
GF.YP01.KPT.320000	Ø 32	32	39	18	500
GF.YP01.KPT.400000	Ø 40	40	46	20.5	400

DOUBLE CLAMP PN 25

Product Code	Size	D1	L	E	Quantity
GF.YP01.KPC.200000	Ø 20	20-22	60	14.5	500
GF.YP01.KPC.250000	Ø 25	25-27	60	16	400
GF.YP01.KPC.320000	Ø 32	32-34	72	18	200

CLAMP WITH COVER PN 25

Product Code	Size	D1	L	E	Quantity
TM.YP01.KKP.160000	Ø 16	16	28	13	750
TM.YP01.KKP.200000	Ø 20	20	32	14.5	750
TM.YP01.KKP.250000	Ø 25	25	36	16	600
TM.YP01.KKP.320000	Ø 32	32	39	18	300
TM.YP01.KKP.400000	Ø 40	40	41	20.5	200
TM.YP01.KKP.500000	Ø 50	50	45	23.5	120

SINGLE ANCHOR CLAMP PN 25

Product Code	Size	D1	L	E	Quantity
GF.YP01.KPD.250000	Ø 25	25	32	16	600

END PLUG PN 25

Product Code	Size	D1	L	E	Quantity
GF.YP01.KOT.200000	Ø 20	20	25	14.5	800
GF.YP01.KOT.250000	Ø 25	25	15	16	600
GF.YP01.KOT.320000	Ø 32	32	15	18	400

END PLUG (LONG) PN 25

Product Code	Size	D1	L	E	Quantity
GF.YP01.KTU.200000	Ø 20	20	56	14.5	250

STOPEND PN 25

Product Code	Size	D1	L	E	Quantity
GF.YP01.KAB.200000	Ø 20	19.5	14.5	21	800
GF.YP01.KAB.250000	Ø 25	24.5	16	23	600
GF.YP01.KAB.320000	Ø 32	31.5	18	25	300
GF.YP01.KAB.400000	Ø 40	39.4	20.5	33	150
GF.YP01.KAB.500000	Ø 50	49.4	23.5	39	80
GF.YP01.KAB.630000	Ø 63	62.5	27.5	47	40
GF.YP01.KAB.750000	Ø 75	74.7	30	52	25
GF.YP01.KAB.900000	Ø 90	89.7	33	58	18
GF.YP01.KAB.110000	Ø 110	109.7	37	66	9

CHECK VALVE WITH SWING PN 25

Product Code	Size	D1	L	E	Quantity
GF.MO01.CCV.200000	Ø 20	19.5	80	14.5	100
GF.MO01.CCV.250000	Ø 25	24.5	84	16	75
GF.MO01.CCV.320000	Ø 32	31.5	84	18	50



FEMALE ELBOW PN 25

Product Code	Size	D1	E	L	Quantity
GF.MT01.DRD.200012	Ø 20x1/2	19.5	14.5	35	120
GF.MT01.DRD.200034	Ø 20x3/4	19.5	14.5	35	100
GF.MT01.DRD.250012	Ø 25x1/2	24.5	16	40	100
GF.MT01.DRD.250034	Ø 25x3/4	24.5	16	45	100
GF.MT01.DRD.250100	Ø 25x1	24.5	16	40	60
GF.MT01.DRD.320012	Ø 32x1/2	31.5	18	45	60
GF.MT01.DRD.320034	Ø 32x3/4	31.5	18	45	60
GF.MT01.DRD.320100	Ø 32x1	31.5	18	45	60
GF.MT01.DRD.400114	Ø 40x1-1/4	39.4	20.5	48.5	20
GF.MT01.DRD.500112	Ø 50x1-1/2	49.4	23.5	59	12
GF.MT01.DRD.630200	Ø 63x2	62.5	27.5	76.5	8



MALE ELBOW PN 25

Product Code	Size	D1	E	L	Quantity
GF.MT01.DRE.200012	Ø 20x1/2	19.5	14.5	35	120
GF.MT01.DRE.200034	Ø 20x3/4	19.5	14.5	35	75
GF.MT01.DRE.250012	Ø 25x1/2	24.5	16	40	100
GF.MT01.DRE.250100	Ø 25x1/2	24.5	16	45	80
GF.MT01.DRE.250034	Ø 25x1	24.5	16	40	80
GF.MT01.DRE.320012	Ø 32x1/2	31.5	18	45	45
GF.MT01.DRE.320034	Ø 32x3/4	31.5	18	45	45
GF.MT01.DRE.320100	Ø 32x1	31.5	18	45	45
GF.MT01.DRE.400114	Ø 40x1-1/4	39.4	20.5	48.5	20
GF.MT01.DRE.500112	Ø 50x1-1/2	49.4	23.5	59	10
GF.MT01.DRE.630200	Ø 63x2	62.5	27.5	76.5	6

FEMALE NIPPLE PN 25

Product Code	Size	DI	E	L	Quantity
GF.MT01.NPD.200012	Ø 20x1/2	19.5	14.5	38	180
GF.MT01.NPD.200034	Ø 20x3/4	19.5	14.5	38	100
GF.MT01.NPD.250012	Ø 25x1/2	24.5	16	42	180
GF.MT01.NPD.250034	Ø 25x3/4	24.5	16	42	120
GF.MT01.NPD.250100	Ø 25x1	31.5	16	44	80
GF.MT01.NPD.320012	Ø 32x1/2	31.5	16	44	80
GF.MT01.NPD.320034	Ø 32x3/4	31.5	16	44	80
GF.MT01.NPD.320100	Ø 32x1	39.4	16	44	80
GF.MT01.NPD.400114	Ø 40x1-1/4	39.4	20.5	63	40
GF.MT01.AND.500112	Ø 50x1-1/2	49.4	23.5	70	20
GF.MT01.AND.630200	Ø 63x2	62.5	27.5	75	12
GF.MT01.AND.750212	Ø 75x2-1/2	74.7	30	80	8
GF.MT01.AND.900300	Ø 90x3	89.7	33	105	4
GF.MT01.AND.110400	Ø 110X4	109.7	37	110	2

MALE NIPPLE PN 25

Product Code	Size	DI	E	L	Quantity
GF.MT01.NPE.200012	Ø 20x1/2	19.5	14.5	51	140
GF.MT01.NPE.200034	Ø 20x3/4	19.5	14.5	51	100
GF.MT01.NPE.250012	Ø 25x1/2	24.5	16	53	150
GF.MT01.NPE.250034	Ø 25x1/2	24.5	16	55	120
GF.MT01.NPE.250100	Ø 25x1	24.5	18	55	80
GF.MT01.NPE.320012	Ø 32x1/2	31.5	18	60	50
GF.MT01.NPE.320034	Ø 32x3/4	31.5	18	60	50
GF.MT01.NPE.320100	Ø 32x1	31.5	18	60	50
GF.MT01.NPE.400114	Ø 40x1-1/4	39.4	20.5	80	32
GF.MT01.NPE.500112	Ø 50x1-1/2	49.4	23.5	90	20
GF.MT01.NPE.630200	Ø 63x2	62.5	27.5	95	12
GF.MT01.NPE.750212	Ø 75x2-1/2	74.7	30	105	6
GF.MT01.NPE.900300	Ø 90x3	89.7	33	120	4
GF.MT01.NPE.110400	Ø 110X4	109.7	37	140	2



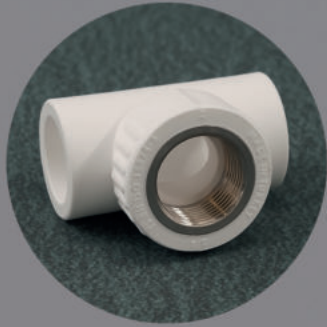
FEMALE BATTERY CONNECTION PN 25

Product Code	Size	Dl	L	E	Quantity
GF.MT01.3BD.200012	Ø 20x1/2	19.5	30	14.5	100
GF.MT01.3BE.250012	Ø 25x1/2	24.5	33	16	80
GF.MT01.3BE.250034	Ø 25x3/4	31.5	38	18	80



MALE BATTERY CONNECTION PN 25

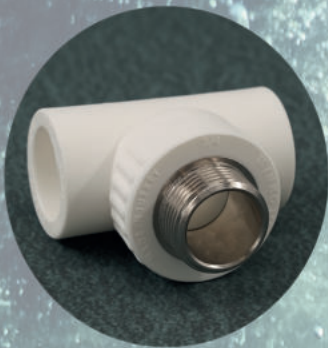
Product Code	Size	Dl	L	E	Quantity
GF.MT01.3BE.200012	Ø 20x1/2	19.5	30	14.5	100
GF.MT01.3BE.200034	Ø 20x3/4	19.5	30	14.5	80
GF.MT01.3BE.250012	Ø 25x1/2	24.5	33	16	80
TM.MT01.3BE.250034	Ø 25x3/4	31.5	38	18	80



FEMALE TEE PN 25

Product Code	Size	Dl	E	L	Quantity
GF.MT01.DTE.200012	Ø 20x1/2	19.5	14.5	54	120
GF.MT01.DTE.200034	Ø 20x3/4	19.5	14.5	54	75
GF.MT01.DTE.250012	Ø 25x1/2	24.5	16	65	75
GF.MT01.DTE.250034	Ø 25x3/4	24.5	16	65	75
GF.MT01.DTE.320012	Ø 32x1/2	31.5	18	75	40
GF.MT01.DTE.320034	Ø 32x3/4	31.5	18	75	40
GF.MT01.DTE.320100	Ø 32x1	31.5	18	75	40
GF.MT01.DTE.500112	Ø 50x1/2	49.4	23.5	100	12
GF.MT01.DTE.500034	Ø 50x3/4	49.4	23.5	100	12
GF.MT01.DTE.630012	Ø 63x1/2	62.5	27.5	110	8
GF.MT01.DTE.630034	Ø 63x3/4	62.5	27.5	110	8
GF.MT01.DTE.630100	Ø 63x1	62.5	27.5	110	8





MALE TEE PN 25

Product Code	Size	Dl	L	E	Quantity
GF.MT01.ETE.200012	Ø 20x1/2	19.5	54	14.5	100
GF.MT01.ETE.200034	Ø 20x3/4	19.5	54	14.5	60
GF.MT01.ETE.250012	Ø 25x1/2	24.5	65	16	60
GF.MT01.ETE.250034	Ø 25x3/4	24.5	65	16	60
GF.MT01.ETE.320012	Ø 32x1/2	31.5	75	18	40
GF.MT01.ETE.320034	Ø 32x3/4	31.5	75	18	40
GF.MT01.ETE.320100	Ø 32x1	31.5	75	18	40
GF.MT01.ETE.500112	Ø 50x1-1/2	49.4	100	23.5	12



ELBOW WITH NUT PN 25

Product Code	Size	Dl	E	L	Quantity
GF.MT01.DRH.200012	Ø 20x1/2	19.5	14.5	35	150
GF.MT01.DRH.200034	Ø 20x3/4	19.5	14.5	35	80
GF.MT01.DRH.250034	Ø 25x3/4	24.5	16	40	80
TM.MT01.DRH.320100	Ø 32x1	24.5	18	45	50



NIPPLE WITH NUT PN 25

Product Code	Size	D1	E	L	Quantity
GF.MT01.NPH.200012	Ø 20x1/2	19.5	14.5	45	200
GF.MT01.NPH.200034	Ø 20x3/4	19.5	14.5	45	100
GF.MT01.NPH.250012	Ø 25x1/2	24.5	16	50	100
GF.MT01.NPH.250034	Ø 25x3/4	24.5	16	50	100
TM.MT01.NPH.320100	Ø 32x1	31.5	18	55	60

RADIATOR VALVE ELBOW PN 25

Product Code	Size	D1	L1	L2	E	Quantity
TM.MT01.NPH.200012	Ø 20x1/2	19.5	83	87.5	14.5	50
TM.MT01.NPH.250012	Ø 25x1/2	24.5	85	87.5	16	50
TM.MT01.NPH.250034	Ø 25x3/4	24.5	91	91	16	40

RADIATOR VALVE STRAIGHT PN 25

Product Code	Size	D1	L1	L2	E	Quantity
TM.MT01.NPH.200012	Ø 20x1/2	19.5	67	89	14.5	50
TM.MT01.NPH.250012	Ø 25x1/2	24,5	67	91	16	50
TM.MT01.NPH.250034	Ø 25x3/4	31,5	72	94	18	40



**FEMALE DOUBLE BATTERY
CONNECTION THICK PN 25**

Product Code	Size	Dl	L	E	Quantity
GF.MT01.CBD.200012	Ø 20x1/2	19.5	150	14.5	20
GF.MT01.CBD.200034	Ø 20x3/4	19.5	150	14.5	20
GF.MT01.CBD.250012	Ø 25x1/2	24.5	150	16	20
GF.MT01.CBD.250034	Ø 25x3/4	24.5	150	16	20



**MALE DOUBLE BATTERY
CONNECTION THICK PN 25**

Product Code	Size	Dl	L	E	Quantity
GF.MT01.CBE.200012	Ø 20x1/2	19.5	150	14.5	20
GF.MT01.CBE.200034	Ø 20x3/4	19.5	150	14.5	20
TM.MT01.CBE.250012	Ø 25x1/2	24.5	150	16	20
TM.MT01.CBE.250034	Ø 25x3/4	24.5	150	16	20



**FEMALE DOUBLE BATTERY
CONNECTION THIN PN 25 (15 CM)**

Product Code	Size	Dl	L	E	Quantity
GF.MT01.UBD.200012	Ø 20x1/2	19.5	150	14.5	24
TM.MT01.UBD.200034	Ø 20x3/4	19.5	150	14.5	24
GF.MT01.UBD.250012	Ø 25x1/2	24.5	150	16	20
TM.MT01.UBD.250034	Ø 25x3/4	24.5	150	16	20





MALE DOUBLE BATTERY CONNECTION THIN PN 25 (15 CM)

Product Code	Size	D1	L	E	Quantity
GF.MT01.UBE.200012	Ø 20x1/2	19.5	150	14.5	24
GF.MT01.UBE.200034	Ø 20x3/4	19.5	150	14.5	24
TM.MT01.UBE.250012	Ø 25x1/2	24.5	150	16	20
GF.MT01.UBE.250034	Ø 25x3/4	24.5	150	16	20



FEMALE DOUBLE BATTERY CONNECTION THIN PN 25 (10 CM)

Product Code	Size	D1	L	E	Quantity
GF.MT01.KBD.200012	Ø 20x1/2	19.5	100	14.5	30
GF.MT01.KBD.200034	Ø 20x3/4	19.5	100	14.5	30
TM.MT01.KBD.250012	Ø 25x1/2	24.5	100	16	30
GF.MT01.KBD.250034	Ø 25x3/4	24.5	100	16	30



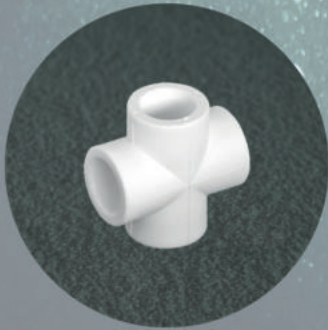
MALE DOUBLE BATTERY CONNECTION THIN PN 25 (10 CM)

Product Code	Size	D1	L	E	Quantity
GF.MT01.KBE.200012	Ø 20x1/2	19.5	100	14.5	30
GF.MT01.KBE.200034	Ø 20x3/4	19.5	100	14.5	30
TM.MT01.KBE.250012	Ø 25x1/2	24.5	100	16	30
GF.MT01.KBE.250034	Ø 25x3/4	24.5	100	16	30



ADJUSTABLE BATTERY PN 25

Product Code	Size	D1	L1	L2	L3	Quantity
GF.MT01.BTA.200012	Ø 20x1/2	19.5	105	135	150	12
TM.MT01.BTA.250012	Ø 25x1/2	24.5	105	135	150	10



CROSS PN 25

Product Code	Size	D1	L	E	Quantity
GF.YP01.1ST.200000	Ø 20	19.5	21	14.5	200
GF.YP01.1ST.250000	Ø 25	24.5	23	16	120
GF.YP01.1ST.320000	Ø 32	31.5	25	18	60



FEMALE CROSS PN 25

Product Code	Size	D1	L	E1	Quantity
GF.YP01.D1S.500012	Ø 50X1/2	49.4	99	23.5	12
GF.YP01.D1S.500034	Ø 50X3/4	49.4	99	23.5	12
GF.YP01.D1S.500100	Ø 50X1	49.4	99	23.5	12
GF.YP01.D1S.630012	Ø 63X1/2	62.5	110	27.5	8
GF.YP01.D1S.630034	Ø 63X3/4	62.5	110	27.5	8



MALE CROSS PN 25

Product Code	Size	D1	L	E	Quantity
GF.MT01.E1S.500012	Ø 50X1/2	49.4	99	23.5	12
GF.MT01.E1S.500100	Ø 50X1	49.4	99	23.5	12



FEMALE CHECKVALVE PN 25

Product Code	Size	D1	D2	L	E	Quantity
GF.MV01.DCV.200012	Ø 20x1/2	19.5	20.3	72	14.5	90
GF.MV01.DCV.250034	Ø 25x3/4	24.5	25.3	84	16	60
TM.MV01.DCV.320100	Ø 32x1	31.5	32.3	100	18	25



MALE CHECKVALVE PN 25

Product Code	Size	D1	L	E	Quantity
GF.MV01.ECV.200012	Ø 20x1/2	19.5	72	14.5	90
GF.MV01.ECV.250034	Ø 25x3/4	24.5	84	16	60
TM.MV01.ECV.320100	Ø 32x1	31.5	100	18	25



FEMALE FILTER PN 25

Product Code	Size	D1	L	E	Quantity
GF.MV01.DFL.200012	Ø 20x1/2	19.5	72	14.5	90
GF.MV01.DFL.250034	Ø 25x3/4	24.5	84	16	60
TM.MV01.DFL.320100	Ø 32x1	31.5	100	18	25



MALE FILTER PN 25

Product Code	Size	D1	D2	L	E	Quantity
GF.MV01.EFL.200012	Ø 20x1/2	19.5	20.3	72	14.5	90
GF.MV01.EFL.250034	Ø 25x3/4	24.5	25.3	84	16	60
TM.MV01.EFL.320100	Ø 32x1	31.5	32.3	100	18	25



BALL VALVE PN 25

Product Code	Size	Dl	L	E	Quantity
GF.MV01.KRV.200012	Ø 20	19.5	70	14.5	80
GF.MV01.KRV.250034	Ø 25	24.5	80	16	60
GF.MV01.KRV.320100	Ø 32	31.5	90	18	40
TM.MV01.KRV.400114	Ø 40	39.4	105	20.5	10
TM.MV01.KRV.500112	Ø 50	49.4	125	23.5	6
TM.MV01.KRV.630200	Ø 63	62.5	150	27.5	4
TM.MV01.KRV.750212	Ø 75	74.4	165	30	3



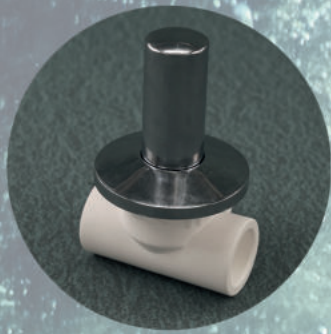
REKOCDED METALLIC BALL VALVE PN 25

Product Code	Size	Dl	L	E	Quantity
TM.MV01.KRV.200012	Ø 20	19	26	19	50
TM.MV01.KRV.250034	Ø 25	24	34	20.5	30
TM.MV01.KRV.320100	Ø 32	32	32	21.3	24



CHROME PLATED VALVE PN 25 (MADALYON MODELS)

	Product Code	Size	Dl	L	E	Quantity
(LONG) (SHORT)	GF.MV01.KVK.200012	Ø 20x1/2	19.5	39	14.5	24
	GF.MV01.KVK.250034	Ø 25x3/4	24.5	43	16	20
	GF.MV01.KVK.320100	Ø 32x1	31.5	48	18	16
	GF.MV01.MKU.200012	Ø 20x1/2	19.5	63	14.5	24
	GF.MV01.MKU.250034	Ø 25x3/4	24.5	71	16	20
	GF.MV01.MKU.320100	Ø 32x1	31.5	85	18	16



CHROME PLATED VALVE PN 25 (DECORATIVE)

Product Code	Size	D1	L	E	Quantity
GF.MV01.AKV.200012	Ø 20x1/2	19.5	63	14.5	30
TM.MV01.AKV.200034	Ø 20x3/4	19.5	63	14.5	20
GF.MV01.AKV.250034	Ø 25x3/4	24.5	71	16	25
GF.MV01.AKV.320100	Ø 32x1	31.5	85	18	16



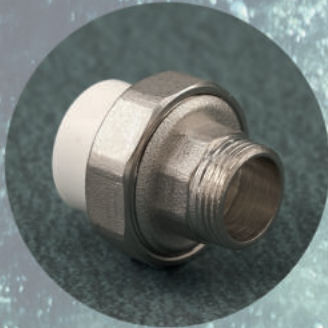
STOP VALVE PN 25 (PLASTIC)

Product Code	Size	D1	L	E	Quantity
GF.MV01.KVP.200012	Ø 20x1/2	19.5	63	14.5	50
GF.MV01.KVP.250034	Ø 25x3/4	24.5	71	16	30
GF.MV01.KVP.320100	Ø 32x1	31.5	85	18	24



FEMALE TRANSITION UNION PN 25

Product Code	Size	D1	L	E	Quantity
GF.M001.DMO.200012	Ø 20x1/2	19.5	50	14.5	200
GF.M001.DMO.200034	Ø 20x3/4	19.5	52	14.5	150
GF.M001.DMO.200100	Ø 20x1	19.5	52	14.5	80
GF.M001.DMO.250012	Ø 25x1/2	24.5	55	16	100
GF.M001.DMO.250034	Ø 25x3/4	24.5	55	16	120
GF.M001.DMO.25010	Ø 25x1	24.5	56	16	80
GF.M001.DMO.320012	Ø 32x1/2	31.5	58	18	80
GF.M001.DMO.320034	Ø 32x3/4	31.5	58	18	80
GF.M001.DMO.320100	Ø 32x1	31.5	60	18	80
GF.M001.DMO.400100	Ø 40x1	39.4	63	20.5	40
GF.M001.DMO.400114	Ø 40x1-1/4	39.4	65	20.5	40
GF.M001.DMO.500112	Ø 50x1-1/2	49.4	70	23.5	20
GF.M001.DMO.630200	Ø 63x2	62.5	75	27	10



MALE TRANSITION UNION PN 25

Product Code	Size	D1	L	E	Quantity
GF.M001.EMO.200012	Ø 20x1/2	19.5	60	14.5	200
GF.M001.EMO.200034	Ø 20x3/4	19.5	62	14.5	150
GF.M001.EMO.200100	Ø 20x1	19.5	65	14.5	80
GF.M001.EMO.250012	Ø 25x1/2	24.5	65	16	80
GF.M001.EMO.250034	Ø 25x3/4	24.5	65	16	100
GF.M001.EMO.25010	Ø 25x1	24.5	67	16	80
GF.M001.EMO.320012	Ø 32x1/2	31.5	65	18	80
GF.M001.EMO.320034	Ø 32x3/4	31.5	68	18	80
GF.M001.EMO.320100	Ø 32x1	31.5	70	18	80
GF.M001.EMO.400100	Ø 40x1	39.4	73	20.5	40
GF.M001.EMO.400114	Ø 40x1-1/4	39.4	75	20.5	40
GF.M001.EMO.500112	Ø 50x1-1/2	49.4	80	23.5	20
GF.M001.EMO.630200	Ø 63x2	62.5	83	27	10



TRANSITION UNION PN 25 (TWO SIDE PLASTIC)

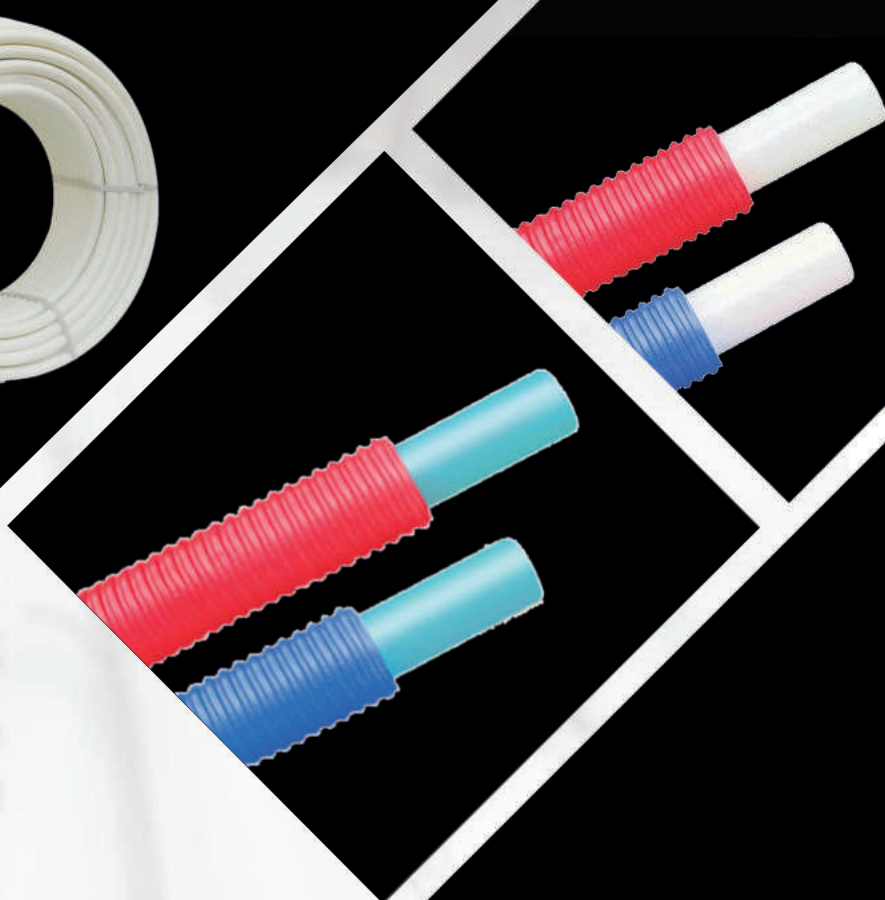
Product Code	Size	D1	L	E1	Quantity
TM.M001.CRP.200012	Ø 20x1/2	19.5	40	14.5	140
TM.M001.CRP.250034	Ø 25x3/4	24.5	48	16	125
TM.M001.CRP.320100	Ø 32x1	31.5	60	18	90



TRANSITION UNION PN 25 (TWO SIDE WELDED)

Product Code	Size	D1	L	E1	Quantity
GF.M001.CRM.200012	Ø 20x1/2	19.5	14.5	56	80
GF.M001.CRM.250034	Ø 25x3/4	24.5	16	59	75
GF.M001.CRM.320100	Ø 32x1	31.5	18	60	60

PPRC PERT PIPES PRODUCTS



PERT PIPE CROSSLINK



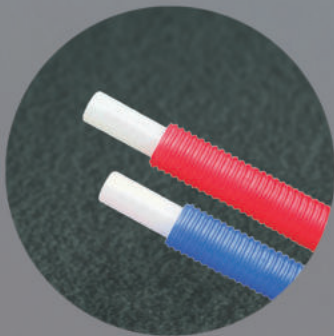
Product Code	Size	Quantity
TPX1000001620	Ø 16.2	160

PERT PIPE (WITH OXYGEN BARRIER)



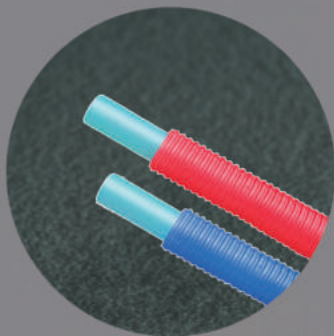
Product Code	Size	Quantity
TPX1000001620	Ø 16.2	160

**PERT PIPE CROSSLINK
(BLUE AND RED SHEATHED)**



Product Code	Size	Quantity
TM.BR12.PPR.160003 (Red)	Ø 16.2	100
TM.BR12.PPR.160004 (Blue)	Ø 16.2	100

**PERT PIPE (WITH OXYGEN BARRIER)
(BLUE AND RED SHEATHED)**



Product Code	Size	Quantity
TM.BR12.OPR.160005 (Red)	Ø 16.2	100
TM.BR12.OPR.160006 (Blue)	Ø 16.2	100



OTHER PRODUCTS



WELDING MACHINES



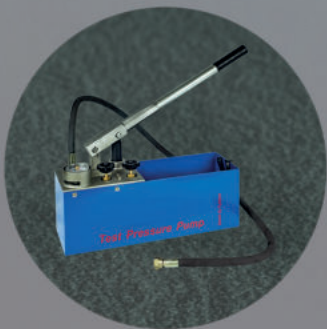
Product Code	Size
TM.KG00.DKM.200040	20mm-25mm-32mm-40mm
TM.KG00.DKM.160063	16mm-20mm-25mm-32mm-40mm-50mm-63mm
TM.CM00.CKM.160075	16mm-20mm-25mm-32mm-40mm-50mm-63mm-75mm
TM.KG00.MKM.160063	16mm-20mm-25mm-32mm-40mm-50mm-63mm

PIPE CUTTER



Product Code	Size
TM.KG00.DMK.000011	0.42
TM.KG00.PMK.000011	0.42
TM.KG00.CMK.000012	0.42
TM.KG00.MKP.000032	0.42

TEST PRESSURE PUMP



Product Code	Size
TM.KG00.TPM.000030	30



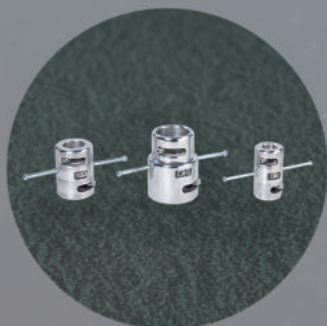
REPIAR TOOL

Product Code	Size
TM.TG00.TAA000000000	-



WELDING TOOL

Product Code	Size
TM.KG00.KPF.000016	16
TM.KG00.KPF.000020	20
TM.KG00.KPF.000025	25
TM.KG00.KPF.000032	32
TM.KG00.KPF.000040	40
TM.KG00.KPF.000050	50
TM.KG00.KPF.000063	63
TM.KG00.KPF.000075	75
TM.KG00.KPF.000090	90
TM.KG00.KPF.000110	110
TM.KG00.KPF.000125	125
TM.KG00.KPF.000160	160



PEELING TOOL

Product Code	Size
TM.KG00.BTA.200025	Ø 20x25
TM.KG00.BTA.320040	Ø 32x40
TM.KG00.BTA.500063	Ø 50x63



PVC PRODUCTS



PVC 45° ELBOW

Product Code	Size	Quantity
GF.AS01.DSK.000050045	50/45	250
GF.AS01.DSK.000075045	75/45	100
GF.AS01.DSK.000110045	110/45	40
GF.AS01.DSK.000160045	160/45	15



PVC 87° ELBOW

Product Code	Size	Quantity
GF.AS01.DSK.000050087	50/87	250
GF.AS01.DSK.000075087	75/87	90
GF.AS01.DSK.000110087	110/87	30
GF.AS01.DSK.000160087	160/87	10



PVC 45° TE BRANCH

Product Code	Size	Quantity
GF.AS01.TCT.050050045	50/50/45	125
TM.AS01.TCT.075050045	75/50/45	50
GF.AS01.TCT.075075045	75/75/45	45
TM.AS01.TCT.110050045	110/50/45	30
TM.AS01.TCT.110075045	110/75/45	15
GF.AS01.TCT.110110045	110/110/45	15
GF.AS01.TCT.160110045	160/110/45	9
TM.AS01.TCT.160160045	160/160/45	5





PVC 87° TE BRANCH

Product Code	Size	Quantity
GF.AS01.TCT.050050087	50/50/45	125
TM.AS01.TCT.075050087	75/50/45	50
GF.AS01.TCT.075075087	75/75/45	50
TM.AS01.TCT.110050087	110/50/45	30
TM.AS01.TCT.110075087	110/75/45	20
GF.AS01.TCT.110110087	110/110/45	20
GF.AS01.TCT.160110087	160/110/45	12
TM.AS01.TCT.160160087	160/160/45	5



PVC 45° DOUBLE BRANCH

Product Code	Size	Quantity
TM.AS01.CCT.505050045	50/50/45	70
TM.AS01.CCT.755050045	75/50/45	50
TM.AS01.CCT.757575045	75/75/45	30
TM.AS01.CCT.115050045	110/50/45	20
TM.AS01.CCT.117575045	110/75/45	15
TM.AS01.CCT.111111045	110/110/45	10
TM.AS01.CCT.161111045	160/110/45	5
TM.AS01.CCT.161616045	160/160/45	4





PVC 87° DOUBLE BRANCH

Product Code	Size	Quantity
TM.AS01.CCT.505050087	50/50/87	70
TM.AS01.CCT.755050087	75/50/87	50
TM.AS01.CCT.757575087	75/75/87	30
TM.AS01.CCT.115050087	110/50/87	20
TM.AS01.CCT.117575087	110/75/87	20
TM.AS01.CCT.111111087	110/110/87	10
TM.AS01.CCT.161111087	160/110/87	5
TM.AS01.CCT.161616087	160/160/87	5



**PVC 45° S SIPHON
PVC 87° S SIPHON**

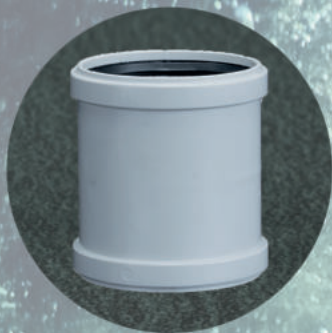
Product Code	Size	Quantity
GF.AS01.SSF.075075087	110/110/45	30
GF.AS01.SSF.110110087	110/110/87	10



**PVC 45° LIGHT SIPHON
PVC 87° LIGHT SIPHON**

Product Code	Size	Quantity
GF.AS01.LSS.110110045	110/110/45	10
GF.AS01.LSS.110110087	110/110/87	10





PVC SLIDING SOCKET

Product Code	Size	Quantity
GF.AS01.KMN.500000000	50 mm	200
GF.AS01.KMN.750000000	75 mm	100
GF.AS01.KMN.110000000	110 mm	40
GF.AS01.KMN.160000000	160 mm	15



PVC REDUCTION

Product Code	Size	Quantity
TM.AS01.RDS.000075050	75/50	150
TM.AS01.RDS.000110050	110/50	70
TM.AS01.RDS.000110075	110/75	70
TM.AS01.RDS.000160110	160/110	20



PVC CLEAN OUT

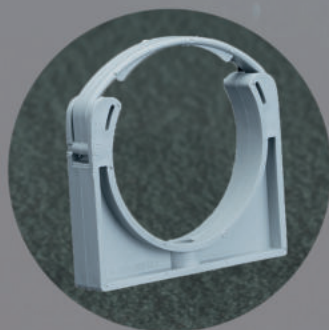
Product Code	Size	Quantity
TM.AS01.TMG.000000050	50 mm	70
TM.AS01.TMG.000000075	75 mm	50
TM.AS01.TMG.000000110	110 mm	15
TM.AS01.TMG.000000160	160 mm	8





PVC PIPE PLUG (END CAP)

Product Code	Size	Quantity
TM.AS01.KPB.000000050	50 mm	500
TM.AS01.KPB.000000075	75 mm	400
TM.AS01.KPB.000000110	110 mm	150
TM.AS01.KPB.000000160	160 mm	80



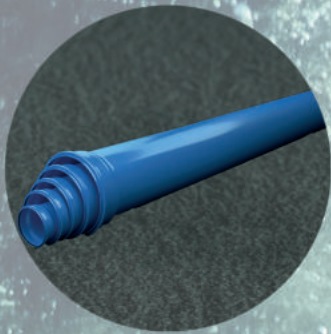
PVC CLAMP

Product Code	Size	Quantity
TM.AS01.AKL.000000050	50 mm	500
TM.AS01.AKL.000000075	75 mm	200
TM.AS01.AKL.000000110	110 mm	100
TM.AS01.AKL.000000160	160 mm	50



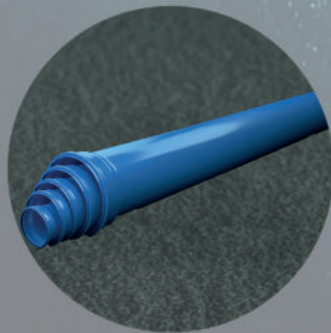
PP PRODUCTS





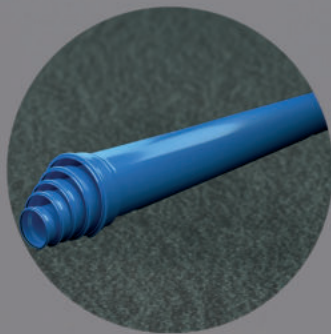
PP (MUTE SYSTEM) PIPE 50 MM

Product Code	Size	Quantity
GF.BR01.PPB.000050150	50/150	4
GF.BR01.PPB.000050250	50/250	4
GF.BR01.PPB.000050500	50/500	4
GF.BR01.PPB.0000501000	50/1000	4
GF.BR01.PPB.0000502000	50/2000	4
GF.BR01.PPB.0000503000	50/3000	4
GF.BR01.PPB.0000506000	50/6000	4



PP (MUTE SYSTEM) PIPE 75 MM

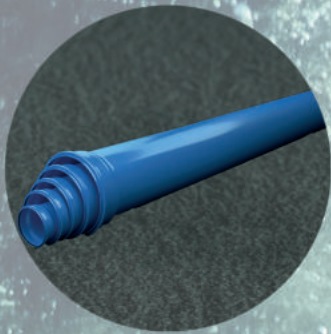
Product Code	Size	Quantity
GF.BR01.PPB.000075150	75/150	4
GF.BR01.PPB.000075250	75/250	4
GF.BR01.PPB.000075500	75/500	4
GF.BR01.PPB.0000751000	75/1000	4
GF.BR01.PPB.0000752000	75/2000	4
GF.BR01.PPB.0000753000	75/3000	4
GF.BR01.PPB.0000756000	75/6000	4



PP (MUTE SYSTEM) PIPE 110 MM

Product Code	Size	Quantity
GF.BRO01.PPB.0000110150	110/150	4
GF.BRO01.PPB.0000110250	110/250	4
GF.BRO01.PPB.0000110500	110/500	4
GF.BRO01.PPB.00001101000	110/1000	4
GF.BRO01.PPB.00001102000	110/2000	4
GF.BRO01.PPB.00001103000	110/3000	4
GF.BRO01.PPB.00001106000	110/6000	4





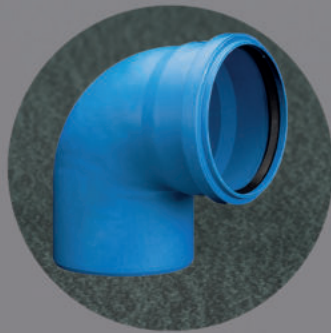
PP (MUTE SYSTEM) PIPE 160 MM

Product Code	Size	Quantity
GF.BRO01.PPB.0000160150	160/150	1
GF.BRO01.PPB.0000160250	160/250	1
GF.BRO01.PPB.0000160500	160/500	1
GF.BRO01.PPB.00001601000	160/1000	1
GF.BRO01.PPB.00001602000	160/2000	1
GF.BRO01.PPB.00001603000	160/3000	1
GF.BRO01.PPB.00001606000	160/6000	1



PP 45° ELBOW

Product Code	Size	Quantity
GF.PP01.DSK.000050045	50/45	250
GF.PP01.DSK.000075045	75/45	100
TM.AS01.DSK.000110045	110/45	40
TM.AS01.DSK.000160045	160/45	15



PP 87° ELBOW

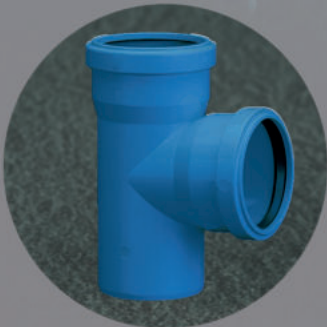
Product Code	Size	Quantity
TM.AS01.DSK.000050087	50/87	200
TM.AS01.DSK.000075087	75/87	90
TM.AS01.DSK.000110087	110/87	30
TM.AS01.DSK.000160087	160/87	10





PP 45° TE BRANCH

Product Code	Size	Quantity
TM.ASO1.TCT.050050045	50/50/45	125
TM.ASO1.TCT.075050045	75/50/45	50
TM.ASO1.TCT.075075045	75/75/45	50
TM.ASO1.TCT.110050045	110/50/45	30
TM.ASO1.TCT.110075045	110/75/45	15
TM.ASO1.TCT.110110045	110/110/45	15
TM.ASO1.TCT.160110045	160/110/45	9
TM.ASO1.TCT.160160045	160/160/45	5

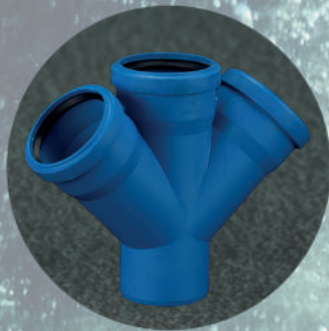


PP 87° TE BRANCH

Product Code	Size	Quantity
TM.ASO1.TCT.050050087	50/50/87	125
TM.ASO1.TCT.075050087	75/50/87	50
TM.ASO1.TCT.075075087	75/75/87	50
TM.ASO1.TCT.110050087	110/50/87	30
TM.ASO1.TCT.110075087	110/75/87	15
TM.ASO1.TCT.110110087	110/110/87	15
TM.ASO1.TCT.160110087	160/110/87	9
TM.ASO1.TCT.160160087	160/160/87	5



PP 45° DOUBLE BRANCH



Product Code	Size	Quantity
TM.AS01.CCT.505050045	50/50/45	75
TM.AS01.CCT.755050045	75/50/45	50
TM.AS01.CCT.757575045	75/75/45	30
TM.AS01.CCT.115050045	110/50/45	20
TM.AS01.CCT.117575045	110/75/45	15
TM.AS01.CCT.111111045	110/110/45	10

PP 87° DOUBLE BRANCH



Product Code	Size	Quantity
TM.AS01.CCT.505050087	50/50/87	70
TM.AS01.CCT.755050087	75/50/87	50
TM.AS01.CCT.757575087	75/75/87	30
TM.AS01.CCT.115050087	110/50/87	20
TM.AS01.CCT.117575087	110/75/87	20
TM.AS01.CCT.111111087	110/110/87	10



PP 45° S SIPHON

PP 87° S SIPHON

Product Code	Size	Quantity
TM.AS01.SSF.075075087	110/110/45	30
TM.AS01.SSF.110110087	110/110/87	10



PP 45° LIGHT SIPHON

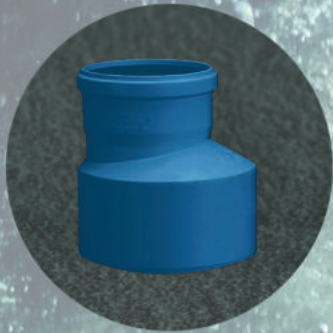
PP 87° LIGHT SIPHON

Product Code	Size	Quantity
GF.AS01.LSS.11011045	110/110/45	10
GF.AS01.LSS.11011087	110/110/87	10



PP SLIDING SOCKET

Product Code	Size	Quantity
TM.AS01.KMN500000000	50 mm	200
TM.AS01.KMN750000000	75 mm	100
TM.AS01.KMN110000000	110 mm	40
TM.AS01.KMN160000000	160 mm	15



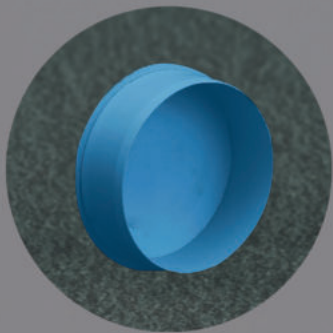
PP REDUCTION

Product Code	Size	Quantity
TM.AS01.RDS.000075050	75/50	150
TM.AS01.RDS.00011050	110/50	70
TM.AS01.RDS.00011075	110/75	70
TM.AS01.RDS.000160110	160/110	20



PP CLEAN OUT

Product Code	Size	Quantity
TM.AS01.TMG.000000050	50 mm	75
TM.AS01.TMG.000000075	75 mm	50
TM.AS01.TMG.000000110	110 mm	15
TM.AS01.TMG.000000160	160 mm	8



PP PIPE PLUG (END CAP)

Product Code	Size	Quantity
TM.AS01.KPB.000000050	50 mm	500
TM.AS01.KPB.000000075	75 mm	400
TM.AS01.KPB.000000110	110 mm	150
TM.AS01.KPB.000000160	160 mm	80





PP CLAMP

Product Code	Size	Quantity
TM.AS01.AKL.000000050	50 mm	500
TM.AS01.AKL.000000075	75 mm	200
TM.AS01.AKL.000000110	110 mm	100
TM.AS01.AKL.000000160	160 mm	50





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