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formül®

Pipes & Fittings

Product Catalogue

Made in Turkey

30 Years a quality **story**

Formül has recently made major innovations and breakthroughs, one of the which is to move to its privately-owned brand-new plant premises. Boasting a privileged location in the Silivri - Çerkezköy

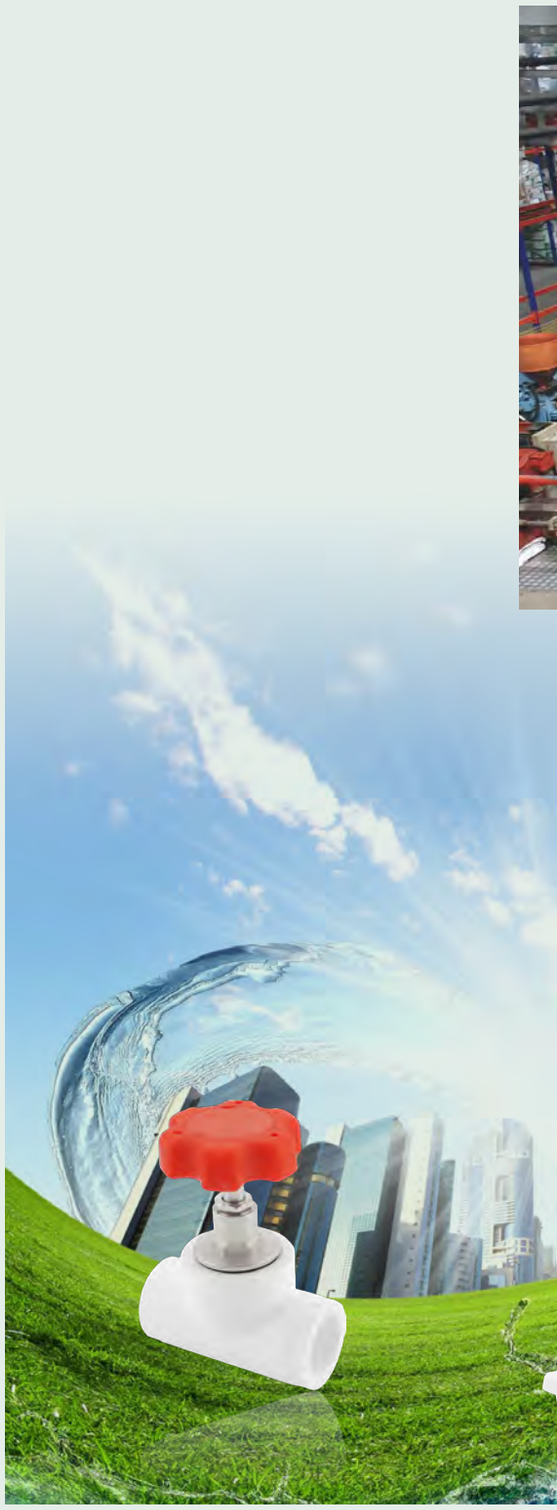
industrial zone, all of the systems and facilities of the new plant premises covering approximately 40,000 sqm were built in such a modern fashion as to compel European standards.

All of the fitting moulds were replaced with the multispan moulds.

Formül have heavily invested in automation for the past three years. The assembly of the metallic fitting and valve range is done by the fully-automated machines.

Supplying its metal input needs from its own metal plant in Silivri equipped with fully-automated machinery, Formül is among the rare companies that produces its inserts.

Formül is now leading the field in the PPRC industry thanks to its product range, capacity and excellent and impeccable quality.



The world's preference,
Turkey's brand formül®

Quality system management

Our Company, which is located in Istanbul Turkey, is a major manufacturer and exporter of PP-R Pipes and Fittings for cold and hot water supply systems.

Our Company was established in 1990 for the purpose of mold construction and manufacturing. In course of time, having several years of experience and expertise, has begun to produce also the pipes and fittings in PP-R and PE-x systems, and the brass inserts for the fittings. Step by step, following the developing technology, has reached currently to the most extensive product range in the sector.

We ensure our clients high quality product, project-specific services and solutions as well as successful organization, approved by the certificates ISO 9000, CE, TSE, DVGW, SKZ, TZW, AENOR, AEO, GOST, CSTB, UkrSEPRO and other national certificates.

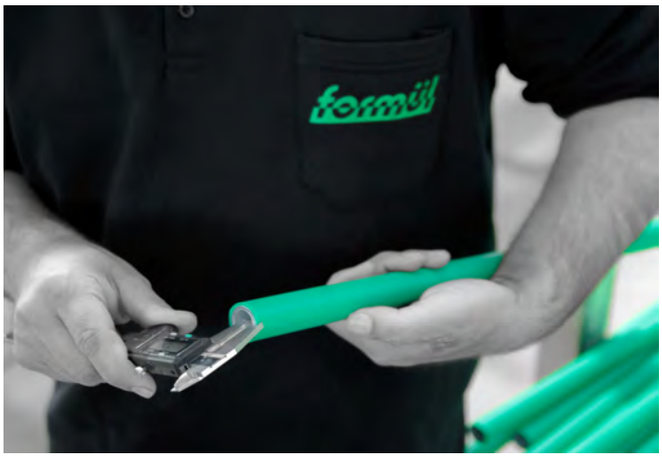
Becoming leader company in its field, several projects and works have been successfully completed by professional staff in our laboratory and by collaboration of different universities. As a result of this work, our company is among few companies in the sector with patents, utility models and model certificates, including giving know-how service to the new investors.

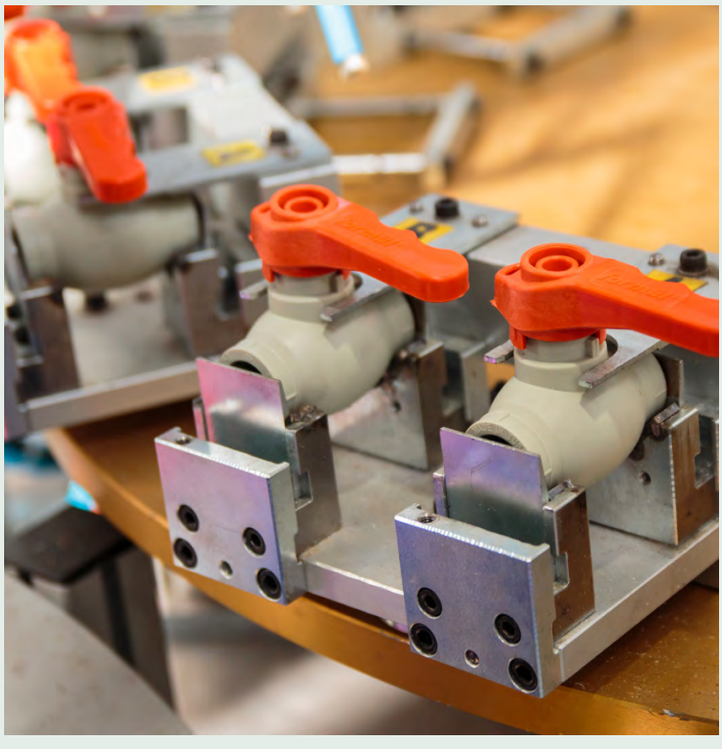
Our products have become a popular and requested brand in Africa, CIS countries, Far and Middle East within short time. We are proud of exporting our products to more than 56 countries as a result of accumulation of experience, using latest technology, environment friendly systems and meeting the customer expectations. Our highly qualified and well experienced team will be happy to serve you…

Fields of application

Formul PPR pipe and fittings are commonly used for hot and cold water systems.

Formul PPR pipe and fittings can be directly used drinking water systems, wall, floor and radiator heating systems, air conditioning systems and transfering any kind of liquid systems.





First Quality

formül®

PP-R Pipes & Fittings

1

TECHNICAL INFORMATION

Raw Material

Technical data

Polypropylene Random Copolimer (PP-R)

Pipe and fittings are produced using PP Random Copolimer (PP-R). PP Random Copolimer is commonly used in drinking water installations, hot water, floor and radiator heating systems and every kind of industrial liquid distribution systems.

PP-R has a lot of advantages over other plastics such as; long life duration, high resistance to pressure and heat, better flexibility, high acoustic and thermal insulaton, high molecular weight, low MFI.

PP-R confirms the requirements of ASTM F 2389, DIN 8077, DIN 8078 ,EN ISO 15874 standards.

Technical Specifications

Characteristics		Unit	Test Method	Values
Density	+23°C	g/cm3	ISO 1183	0,909
Melt Flow Index (MFI)	190 °C /5 kg	g/10 min	ISO 1133	0,4-0,6
	230°C /2,16 kg	g/10 min	ISO 1133	0,2-0,5
	230°C /5 kg	g/10 min	ISO 1133	0,8-1,3
Tensile Stress at yield (23°C)	(50 mm/min)	MPa	ISO 527	25
Tensile Strain at Yield	(50 mm/min)	%	ISO 527	10
Flexural Modules	+23°C	N/mm²	ISO 527	800
Charpy Impact Strength (notched)	+23°C	kJ/m²	ISO 179	>15
	0°C	kJ/m²	ISO 179	>5
Charpy Impact Strength (unnotched)	0°C	kJ/m²	ISO 179	No break
Vicat Softening Point	(1 kg)	°C	ASTM D 1525 ISO 306 DIN 53460	130
	(5 kg)	°C		60
Melting Range		°C	Polarizing Microscope	140-150
Linear Thermal Expansion Co-efficient		1/K	DIN 53752	1,5x10-4
Thermal Conductivity		W/mK	DIN 52612	0,24
Hardness (Shore D)	(3 sec value)		ISO 868	65
Pipe Friction Factor				0,007

Mechanical characteristics of tubular test pieces made of PPR by injection moulding (TS EN ISO 15874-3)

Characteristic	Requirement	Test parameters for the individual tests PPR					Test method
		Hydrostatic Stress (Mpa)	Test Temp. (C°)	Test Period (h)	Number of test pieces	Test Pressure (Bar)	
Resistance to İnternal pressure	No failure during the test period	16,0	20	1	3	53,1	ISO 1167-1 ISO 1167-3
		3,5	95	1000	3	11,6	

Mechanical characteristics of pipes (TS EN ISO 15874-2)

Characteristic	Requirement	Test parameters for the individual tests PPR					Test method
		Hydrostatic Stress (Mpa)	Test Temp. (C°)	Test Period (h)	Number of test pieces	Test Pressure (Bar)	
Resistance to İnternal pressure	No failure during the test period	16,0	20	1	3	64	ISO 1167-1 ISO 1167-2
		4,3	95	22	3	17,2	
		3.8	95	165	3	15,2	
		3,5	95	1000	3	14	

Physical and chemical characteristics of pipes (TS EN ISO 15874-2)

Characteristic	Requirement	Test parameters		Test method
		Parameter	Value	
Longitudinal reversion	≤ %2	Test temperature PPR Duration of exprosure for: en ≤ 8 mm 8mm ≤ en≤ 16mm en > 16mm Number of test pieces	135 °C 1 h 2 h 4 h 3	Method B of ISO 2505 (oven test)
Thermal stability by hydrostatic pressure testing	No bursting during the test period	Test temperature Hydrostatic stress Test period Number of test pieces	110 °C 1,9 MPa 8760 h 1	ISO 1167-1 ISO 1167-2
Impact resistance	≤ %10	Test temperature Number of test pieces	0 °C 10	ISO 9854-1 ISO 9854-2
MFI (Raw material)	≤ 0,5g /10 min	Test temperature Mass Number of test pieces	230 °C 2,16 kg 3	ISO 1133-1
MFI (Pipe)	%30 maximum difference compared with compound from the same batch	Test temperature Mass Number of test pieces	230 °C 2,16 kg 3	

Pipe Dimension and Tolerances According to DIN 8077

SDR 11 (PN10)

Outside Ø mm.	Tolerance mm.	Thickness mm.	Tolerance mm.	Inside Ø mm.	In" inches
20	+0.3/-0	1.9	+0.3/-0	16.20	1/2"
25	+0.3/-0	2.3	+0.4/-0	20.40	3/4"
32	+0.3/-0	2.9	+0.4/-0	26.20	1"
40	+0.4/-0	3.7	+0.5/-0	32.60	1 1/4"
50	+0.5/-0	4.6	+0.6/-0	40.80	1 1/2"
63	+0.6/-0	5.8	+0.7/-0	51.40	2"
75	+0.7/-0	6.8	+0.8/-0	61.40	2 1/2"
90	+0.9/-0	8.2	+1.0/-0	73.60	3"
110	+1.0/-0	10.0	+1.1/-0	90.00	4"
125	+1.2/-0	11.4	+1.3/-0	102.20	5"

SDR 7,4 (PN16)

Outside Ø mm.	Tolerance mm.	Thickness mm.	Tolerance mm.	Inside Ø mm.	In" inches
20	+0.3/-0	2.8	+0.4/-0	14.00	1/2"
25	+0.3/-0	3.5	+0.5/-0	18.00	3/4"
32	+0.3/-0	4.4	+0.6/-0	23.20	1"
40	+0.4/-0	5.5	+0.7/-0	29.00	1 1/4"
50	+0.5/-0	6.9	+0.8/-0	36.20	1 1/2"
63	+0.6/-0	8.6	+1.0/-0	45.80	2"
75	+0.7/-0	10.3	+1.2/-0	54.40	2 1/2"
90	+0.9/-0	12.3	+1.4/-0	65.40	3"
110	+1.0/-0	15.1	+1.7/-0	79.80	4"
125	+1.2/-0	17.1	+1.9/-0	90.80	5"

SDR 6 (PN20)

Outside Ø mm.	Tolerance mm.	Thickness mm.	Tolerance mm.	Inside Ø mm.	In" inches
20	+0.3/-0	3.4	+0.5/-0	13.20	1/2"
25	+0.3/-0	4.2	+0.6/-0	16.60	3/4"
32	+0.3/-0	5.4	+0.7/-0	21.20	1"
40	+0.4/-0	6.7	+0.8/-0	26.60	1 1/4"
50	+0.5/-0	8.3	+1.0/-0	33.40	1 1/2"
63	+0.6/-0	10.5	+1.2/-0	42.00	2"
75	+0.7/-0	12.5	+1.4/-0	50.00	2 1/2"
90	+0.9/-0	15.0	+1.7/-0	60.00	3"
110	+1.0/-0	18.3	+2.0/-0	73.40	4"
125	+1.2/-0	20.8	+2.2/-0	83.40	5"

Operating life According to DIN 8077 (SF=1,5)

Temperature (C°)	Years of Service	PN10	PN16	PN20
		Pipe Series (S)		
		5	3,2	2,5
		Standart Dimension Ratio (SDR)		
		11	7,4	6
		Allowable Operating Pressure (Bar)		
10	1	17,5	27,8	35,1
	5	16,5	26,2	33,0
	10	16,1	25,6	32,2
	25	15,6	24,7	31,1
	50	15,2	24,1	30,3
20	1	15,0	23,7	29,9
	5	14,1	22,3	28,1
	10	13,7	21,7	27,4
	25	13,2	21,0	26,4
	50	12,9	20,4	25,7
30	1	12,7	20,2	25,4
	5	11,9	18,9	23,8
	10	11,6	18,4	23,2
	25	11,2	17,7	22,3
	50	10,9	17,2	21,7
40	1	10,8	17,1	21,6
	5	10,1	16,0	20,2
	10	9,8	15,5	19,6
	25	9,4	15,0	18,8
	50	9,2	14,5	18,3
50	1	9,1	14,5	18,2
	5	8,5	13,5	17,0
	10	8,2	13,1	16,5
	25	7,9	12,6	15,9
	50	7,7	12,2	15,4
60	1	7,7	12,2	15,4
	5	7,1	11,3	14,3
	10	6,9	11,0	13,9
	25	6,6	10,5	13,3
	50	6,4	10,2	12,9
70	1	6,5	10,3	12,9
	5	6,0	9,5	12,0
	10	5,8	9,2	11,6
	25	5,0	8,0	10,0
	50	4,2	6,7	8,5
80	1	5,4	8,6	10,8
	5	4,8	7,6	9,6
	10	4,0	6,4	8,1
	25	3,2	5,1	6,5
95	1	3,8	6,1	7,6
	5	2,6	4,1	5,2

Thermal Expansion in PPR Pipes

PPR pipes have an expansion coefficient that is much higher than the metal pipes. So, this characteristic should be taken into consideration during installations.

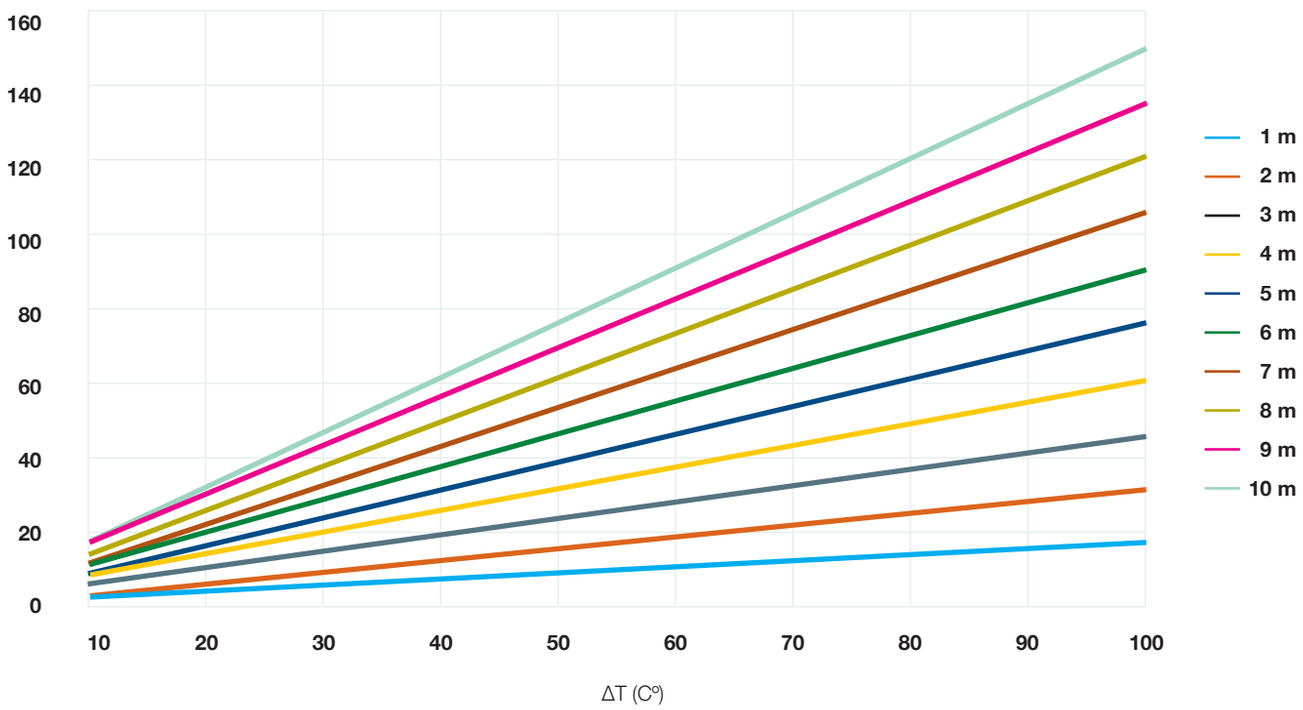
Calculation of thermal expansion is as follows:

$\Delta L = L * \Delta T * \alpha$

where
ΔT = The difference between environmental temperature and water temperature in Kelvin degrees (K) or Celsius (°C).
ΔL = Variation of length in mm.
L = Initial length of the pipe in m.
α = Coefficient of linear thermal expansion. The value of α is 1,5 * 10-4 (K-1) for PPR pipes.

Pipe Length L (m.)	Linear Expansion ΔL (mm.)									
	Temperature Difference ΔL (°C)									
	10	20	30	40	50	60	70	80	90	100
1	1.5	3	4.5	6	7.5	8	10.5	12	13.5	15
2	3	6	9	12	15	18	21	24	27	30
3	4.5	9	13.5	18	22.5	27	21..5	36	40.5	45
4	6	12	18	24	30	36	42	48	54	60
5	7	15	22.5	30	37.5	45	52.5	60	67.5	75
6	9	18	27	36	45	54	63	72	81	90
7	10.5	21	31.5	42	52.5	63	73.5	84	94.5	105
8	12.5	24	36	48	60	72	84	96	108	120
9	13.5	27	40	54	67.5	81	94.5	108	121.5	135
10	15	30	45	60	75	90	105	120	135	150

Thermal Expansion of the Standart PP-R Pipe



Example; at 70 °C for 8m PPR pipe, ΔL=?
ΔL = L * ΔT * α
ΔL=8000 mm*70*0,00015
ΔL=84 mm

PPR Glassfiber Reinforced Pipe

PP-R Glassfiber Reinforced Pipe (PP-R/GF/PP-R) consist of three layers where the inner and outer layers are produced of PP-R and the middle layer is produced of the special mixture of PP-R and Glassfiber raw material.

Main Advantages of the PP-R Glassfiber Reinforced Pipe

1) Easier and faster installation since it does not require peeling before the welding operation.
2) It has 75 % less linear expansion than the standart PP-R pipe.
3) Higher stiffness than standart PP-R pipe.
4) Glassfiber PP-R pipes have thermal expansion co-efficient close to foil pipes, they can conveniently be used in the areas where foil pipes are used. Expansion co-efficient:
   For Glassfiber Reinforced PP-R pipe: 0,035 mm/mK
   For Aluminium Foil Reinforced PP-R Pipe: 0,030 mm/mK
   For Standart PP-R Pipe: 0,15 mm/mK
5) Lighter than standart PP-R pipes.

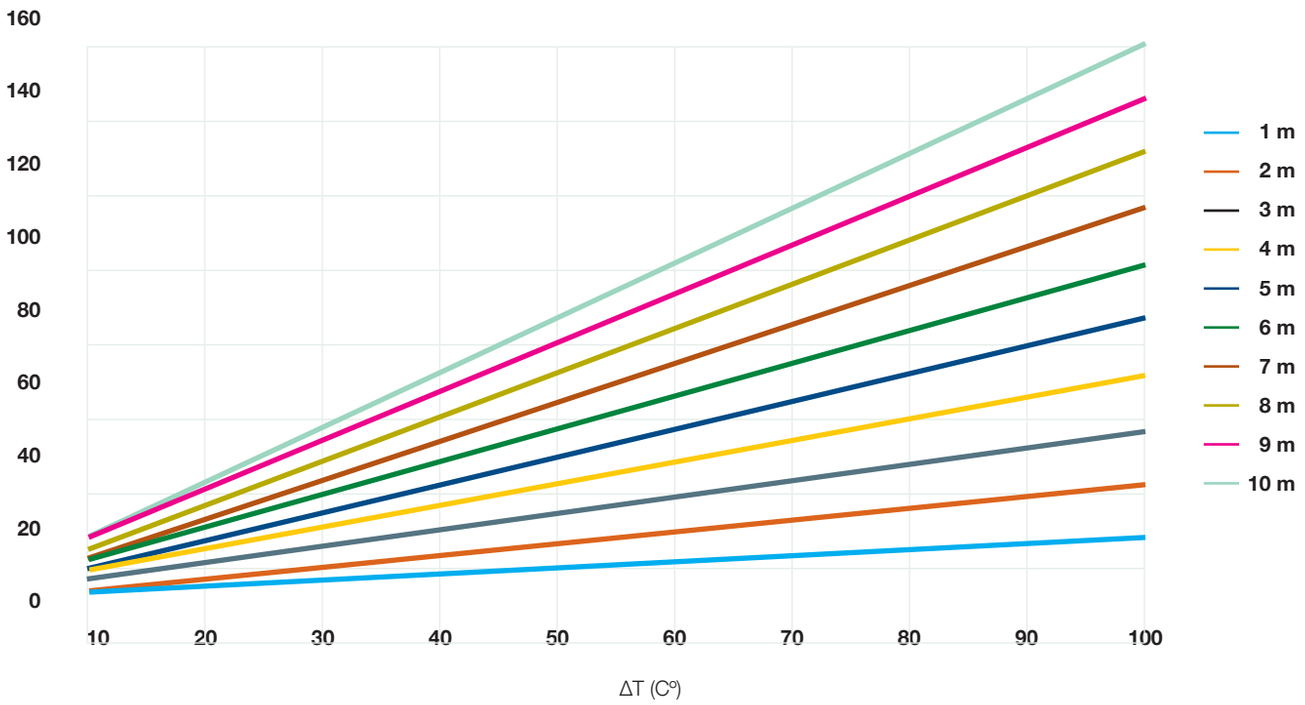
Application Areas:

1) All kinds of hot and cold water installations.
2) Air pressure installations.
3) Heating installations and radiator connections.
4) Industry.

Thermal Expansion in Glassfiber Reinforced PP-R pipe

Calculation of Glassfiber Reinfprced PP-R pipe thermal expansion is as follows:
ΔL = L * ΔT * β
where
ΔT = The difference between environmental temperature and water temperature in Kelvin degrees (K) or Celsius (°C).
ΔL = Variation of length in mm.
L = Initial length of the pipe in m.
ΔT = The difference between environmental temperature and water temperature in Kelvin degrees (K) or Celsius (°C).
β = Coefficient of linear thermal expansion. The value of β is 0,35 * 10-4 (K-1) for Glassfiber Reinforced PPR pipes.

Thermal Expansion of the Glassfiber Reinforced PP-R Pipe



Example; at 70 °C for 8m Glassfiber Reinforced PP-R pipe, ΔL=?
ΔL = L * ΔT * β
ΔL=8000 mm*70*0,000035
ΔL=19,6 mm

PPR Aluminium Foil Reinforced Pipe

This pipe consists of three layers: the pipe and the coat are made of PP-R with aluminium foil inbetween. The Aluminium foil is attached with wrapping welding and by using a special PP coating film to establish the mechanical connection between the aluminium foil and the PP-R layer.

Characteristics

- Low thermal expansion
- Oxygen impermeability
- Low heat loss
- High resistance to pressure and heat
- Easy forming, installation and application
- Hygenic
- Resistance to chemicals
- Low pressure loss due to the smoothness

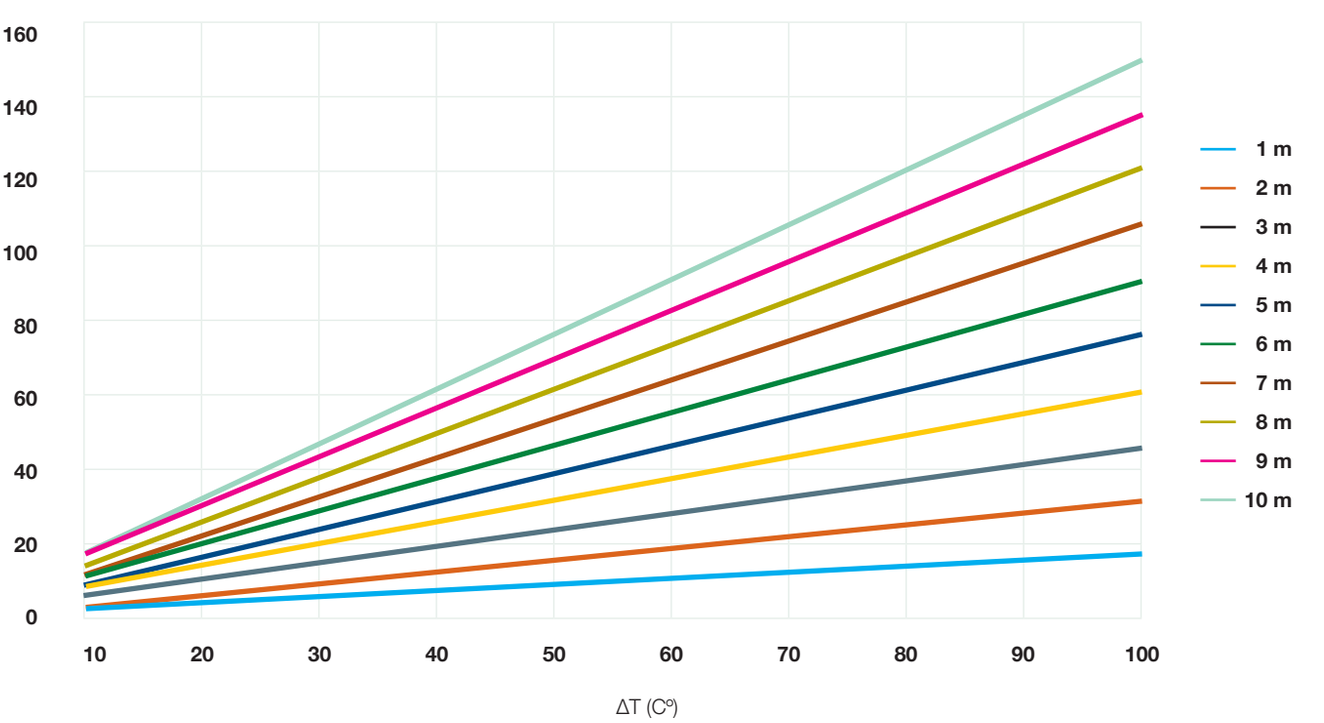
Oxygen Impermeability

Oxygen penetration reduces the operating life by corroding the radiator and heater device. Oxygen diffusion from the atmospheric air is one of the most common ways of oxygen penetration into the system. Plastic pipes do not prevent this penetration. The aluminium layer increases the life of the radiator and the heater device by preventing.

Thermal Expansion in Aluminium Foil Reinforced PP-R Pipe

Calculation of Aluminium Foil Reinforced PP-R pipe thermal expansion is as follows:
ΔL = L * ΔT * Φ
where
ΔT = The difference between environmental temperature and water temperature in Kelvin degrees (K) or Celsius (°C).
ΔL = Variation of length in mm.
L = Initial length of the pipe in m.
ΔT = The difference between environmental temperature and water temperature in Kelvin degrees (K) or Celsius (°C).
Φ = Coefficient of linear thermal expansion. The value of Φ is 0,30 * 10-4 (K-1) for Aluminium Foil Reinforced PPR pipes.

Thermal Expansion of the Aluminium Foil Reinforced PP-R Pipe

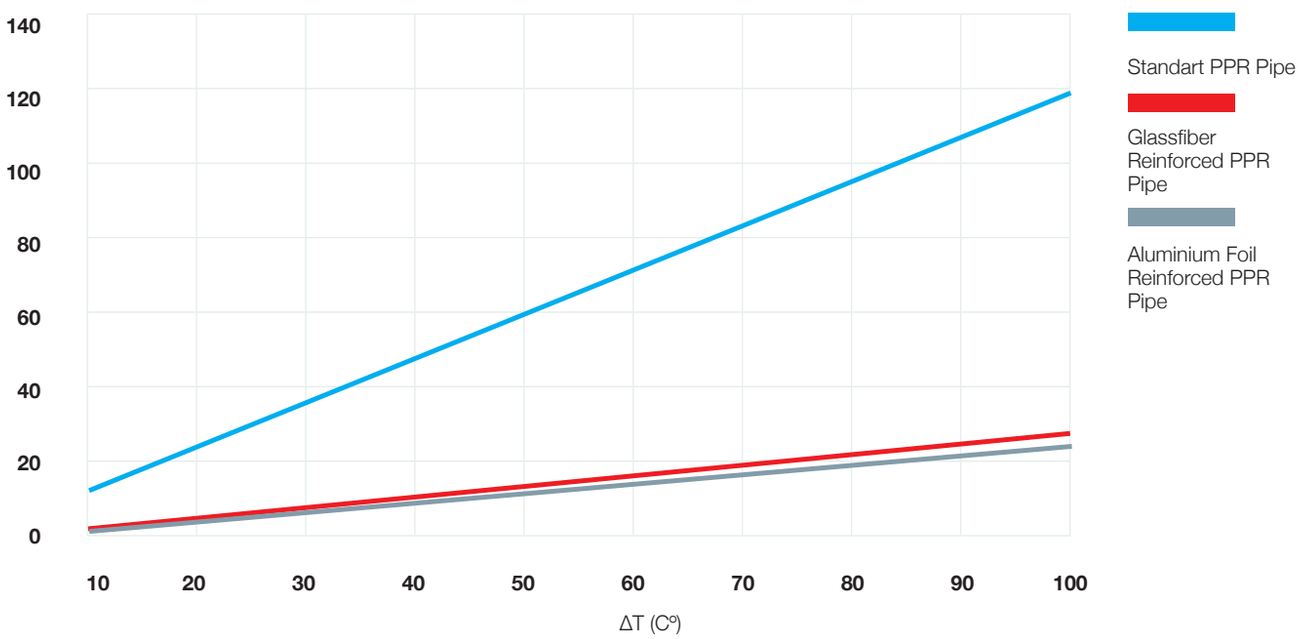


Example; at 70 °C for 8m Aluminium Foil Reinforced PP-R pipe, ΔL=?
ΔL = L * ΔT * Φ
ΔL=8000 mm*70*0,000030
ΔL=16,8 mm

Expansion Comparison Among Standard Pipe,Glassfiber Pipe and Aluminium Foil Reinforced PPR Pipe

As for seen from the examples above , at 70 °C for 8m of pipe expansion is;
ΔL (Standart PPR Pipe) = 84 mm
ΔL (Glassfiber Reinforced PPR Pipe) = 19,6 mm
ΔL (Aluminium Foil Reinforced PPR Pipe) = 16,8 mm
In conclusion we can say Glassfiber and Aluminium Foil Reinforced PPR pipes have very closer expansion values. Therefore Glassfiber Reinforced PPR Pipe might be used easily instead of Aluminium Foil Reinforced PPR pipe.

Expansion Comparison Among Standard Pipe,Glassfiber Pipe and Aluminium Foil Reinforced PPR Pipe



Welding Technique

The quality of an installation depends on the tightness, stability and lifetime of its connections. Fusion welding technique is safe because parts made of polypropylene create a homogenous connection within the process. When the welded joint cools down, it can be fully loaded. The resulting joints are very reliable, and they are as strong as the pipe itself. The pipe may even break before the socket welded joint under tension.

Welding takes only a few seconds. After cutting the pipe perpendicularly to its axis, both the pipes and the fittings (these must be clean if not please clean it with a cloth or alcohol-water solution) are heated with the welding machine (generally up to 260 °C +/- 10 °C) and they are joined wtihout twisting. For proper connections please follow the table given below.

Outer Diameter (mm)	Heating Time (Secs)	Joining Time (Secs)	Cooling Time (Minutes)	Welding Depth (mm)
20	5	4	2	14,5
25	7	4	3	16
32	8	6	4	18
40	12	6	4	20,5
50	18	6	5	23,5
63	24	8	6	27,5
75	30	8	8	31
90	40	8	8	35,5
110	50	10	8	41,5
125	60	10	8	46,5

After Assembling Test Procedure

After assembling to start the test procedure system should be checked please see the steps below.

- Whole valves in the system must be turned off.
- While filling the system, first main valve is opened slightly.
- In order to avoid strong pressure impacts, pipe lines must be reduced air pressure from the utilization points at the highest and farthest sections.
- Separate tests are made by opening the valves of every zone.

When finishing the assembly of the installation, quality control of the system must be made by following below test procedure. Pressure testing shall be carried out in two stages.

1) For the first stage, a test pressure equal to the permissible working pressure plus 5 bar shall be produced twice within 30 minutes at 10 minute intervals. Than it shall be checked whether, over a further period of 30 minutes, the pressure has dropped by more than 0,6 bar and leakage has occurred.
2) The second stage shall follow the first stage without interval and shall last 2 hours. Then, it shall be checked whether the pressure has dropped by more than 0.2 bar and the pipework shows any signs of leakage.

Finally, If pressure drops more than the values given above in the manometer where test is observed, then leakage occurs. Leaking pipe line must be controlled and replaced or re-tightened.

Installation and Expansion Compensation

Pipes can be installed under or above the floor. The installation is very easy and quick. However, one has to pay attention to the following simple points when installing polypropylene pipes.
Pipes have to discharge the radial and axial extensions; compensation may be done by using Omega and U parts. As an alternative, metal compansation also can used instead
of the omega and U parts.

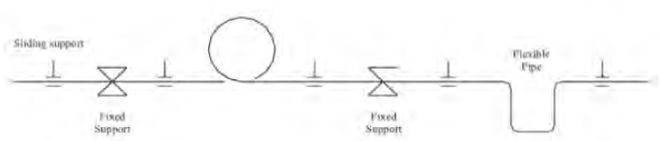


Figure 1- Omega and U part

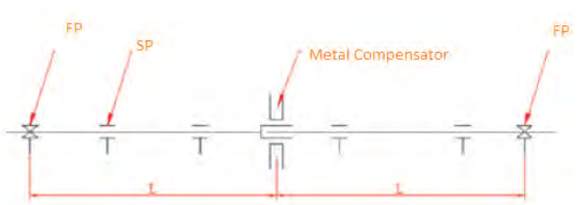


Figure 2- Metal Compensator

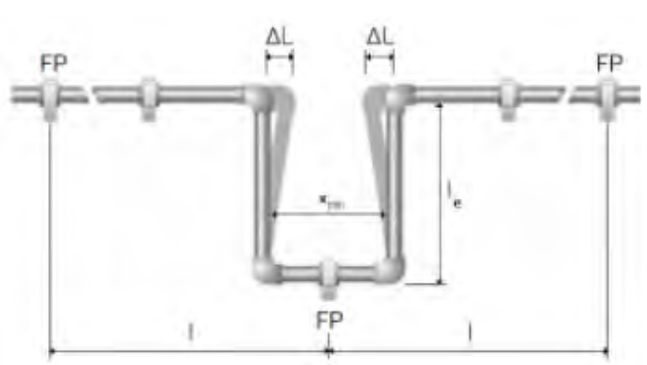


Figure 3-Distance of bending part

Length of the bending part is calculated by following equation.
Le=k * d * ΔL

Le = Lenght of the bending part (U part, mm)
d = Outside diameter of the pipe (mm)
ΔL = Variation of length (mm)
k = Material dependent constant (15 for PP)
FP: Fixing point, support point, SP: Sliding point, support point.

Clamps Interfaces
Clamps interface of standart PPR pipes (mm)

Temperature Difference ΔT (°C)	Standart PPR Pipe Diameter (mm)									
	20	25	32	40	50	63	75	90	110	125
0	85	105	125	140	165	190	205	220	250	270
20	60	75	90	100	120	140	150	160	180	195
30	60	75	90	100	120	140	150	160	180	195
40	60	70	80	90	110	130	140	150	170	185
50	60	70	80	90	110	130	140	150	170	185
60	55	65	75	85	100	115	125	140	160	175
70	50	60	75	80	95	105	115	125	140	150

Clamps interface of Glassfiber Reinforced PPR pipes (mm)

Temperature Difference ΔT (ºC)	Glassfiber Reinforced PPR Pipe Diameter (mm)									
	20	25	32	40	50	63	75	90	110	125
0	115	130	150	165	185	215	240	260	280	295
20	90	100	115	130	145	165	185	200	215	225
30	90	100	115	130	145	165	185	200	210	220
40	80	90	105	120	135	155	175	190	200	210
50	80	90	105	120	135	155	175	190	180	190
60	70	80	100	115	130	145	165	180	175	180
70	65	75	90	105	120	135	155	175	175	180

Clamps interface of Aluminium Foil Reinforced PPR pipes (mm)

Temperature Difference ΔT (ºC)	Aluminium Foil Reinforced PPR Pipe Diameter (mm)									
	20	25	32	40	50	63	75	90	110	125
0	155	170	195	220	245	270	285	300	325	345
20	120	130	150	170	190	210	220	230	250	265
30	120	130	150	170	190	210	220	230	240	250
40	110	120	140	160	180	200	210	220	210	220
50	110	120	140	160	180	200	210	220	210	220
60	100	110	130	150	170	190	200	210	200	210
70	90	100	120	140	160	180	190	200	200	200

CHEMICAL RESISTANCE

Polypropylene is a polymer with very high chemical resistance. Chemical resistance varies on factors such as composition, quality condition, time of affection, concentration and temperature. The tables shown below give chemical resistance in different temperature and concentrations.

The Symbols used in the table are:
S : Saturated solution
f : Resistant
p : Partially resistant
n : Nonresistant

Products	Concentration	Temperature		
	%	20 C°	60 C°	100 C°
Accumulator acid		f	f	
Acetic glacial acid	100	f	p	n
Acetic acid	50	f	f	
Acetic acid	10	f	f	
Acetic anhydride	100	f		
Acetone	100	f	p	n
Acrylonitrile	100	p		
Alum	All	f	f	
Ammonia	High	f	f	

Products	Concentration	Temperature		
	%	20 C°	60 C°	100 C°
Ammonia	10	f	f	
Ammonia	100	f	f	
Ammonium acetate	All	f	f	f
Ammonium carbonate	All	f	f	
Ammonium chloride	All	f	f	f
Ammonium nitrate	All	f	f	f
Ammonium metaphosphate	S	p	p	p
Ammonium phosphate	All	f	f	f
Ammonium sulphate	S	p	p	p
Ammonium bicarbonate	S	p	p	
Animal cooking oil		f	p	
Anti-frreze car		f	f	
Aqua regia		f	n	
Barrium chloride	All	f	f	f
Beer		f		
Benzaldhehyde		f	f	
Benzaldhehyde	S	f	f	f
Benzene		p	n	
Benzoic acid	S	f	f	p
Benzoyl chloride	100	n		
Bitter almonds fragrance		f		
Bleach	12.50%	p	p	
Borax				
Boric acid	100	f	f	
Boric acid	S	f	f	
Brandy		f		
Bromine	100	n		
Bromine	High	n	n	
Bromine	Low	n	n	
Butane	100	f		
Butane (P)	100	f	f	
Butter		f	f	
Butyol alcohol	100	f	f	
Calcium nitrate	S	f	f	
Camphor		f		
Carvon tetracloride	100	p	n	
Chlorine	100	n		
Chlorine (dry)	100	n	n	n
Chlorine (wet)	10	p	n	n
Chlorosulphonic	100	n	n	

Products	Concentration	Temperature		
	%	20 C°	60 C°	100 C°
Chromic acid	S	f	n	
Chroomium (3) salts				
Chroomium (6) salts				
Citric acid	S	f	f	f
Cocoa		f	f	p
Cod liver oil		f		
Cresol	100	f	p	
Cresol	S	f	p	
Cresol oil		f		
Cyclohexane	100	f		
Cycloexanol	100	f	p	
Cycloexanon	100	f	n	
Decahydronaphtlene	100	p	n	n
Dioxan	100	f	p	n
Distilled water	100	f	f	n
Engine oil		f	p	
Ethyl alcohol	100	f		
Ethyl alcohol	96	f	f	
Ethyl alcohol	50	f	f	
Ethers	100	f	p	
Ethyl alcohol (denatured)	10	f	f	
Ethyl clorides	100	n		
Ethylene chlorides	100	p	p	
Ethylene tetracloride	100	p	n	
Formaldehyde	40	f	f	
Formaldehyde	30	f	f	
Formaldehyde	10	f	f	
Formic acid	98	f	p	
Formic acid	90	f		
Formic acid	50	f	f	
Formic acid	10	f	f	f
Fruit-juice		f	f	
Fumic sulfurric acid		n	n	n
Galvanic solutions		f	f	
Glycerol	100	f	f	
Glycerol	High	f	f	
Glycerol	Low	f	f	f
Glycol	100	f	f	
Glycol	High	f	f	
Glycol	Low	f	f	f

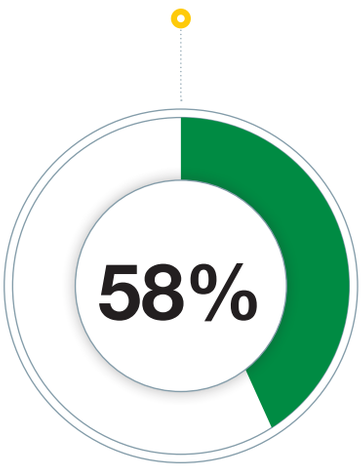
Products	Concentra-tion	Temperature		
	%	20 C°	60 C°	100 C°
Heptan	100	f	p	
Hexan	100	f	p	
Honey		f	f	
Hydrobromic acid	10	f	f	
Hydrofluoric acid	40	f	f	
Hydrogen peroxide water	30	f	p	
Hydrobromic acid	High	f	f	
Hydrogen peroxide water	10	f	f	
Hydrogen peroxide water	3	f	f	f
Ink		f	f	
Isooctane	100	f	p	
Lactic acid	90	f	f	
Lactic acid	50	f	f	
Lactic acid	10	f	f	f
Lacual water	100	f	f	f
Limestone		f	f	f
Linseed oil		f	f	
Mercury		f	f	
Mercury salts	100			
Methyl alcohol	50	f	f	
Methyl alcohol	100	f	f	
Methyl chloride	100	p		
Methym ethyl ketone	100	f	p	
Methylene diformammyde		f		
Milk		f	f	p
Mineral water		f	f	f
Naphtha		f	p	
Naphthalene	100	f		
Nitro benzene	100	p	p	
Normal gasoline		p	n	
Oil		n	n	
Oleic acid	100	f		
Olive oil		f	f	
Nitric acid	50	p	n	
Nitric acid	25	f	f	
Nitric acid	10	f	f	
Oxalic acid	S	f	f	f
Ozone	<0.5 ppm	p	p	
Paraffine	100	f	f	n
Petroleum	100	f	p	

Products	Concentra-tion	Temperature		
	%	20 C°	60 C°	100 C°
Phenylamine		f	p	
Phenylmethylketone	100	p	p	
Phosphoric acid	S	f	p	
Phosphoric acid	50	f	f	
Phosphoric acid	10	f	f	f
Potassium carbonate	S	f	f	
Potassium chlorate	S	f	f	
Potassium chloride X	S	f	f	f
Potassium dichromate	S	f	f	f
Potassium hydroxide	50	f	f	
Potassium hydroxide	25	f	f	
Potassium hydroxide	10	f	f	
Potassium hypochlorite	5	f		
Potassium iodide	S	f	f	
Potassium nitrate	S	f	f	
Sea water		f	f	f
Shampoo		f	f	
Silicone oil		f	p	
Soap solution	S	f	f	
Soap solution	10	f	f	f
Sodium bicarbonate	S	f	f	f
Potassium sluphate	S	f	f	f
Propane ®	100	f	f	f
Propane	100	f	f	f
Pyridine	100	f	p	
Sodium carbonate	S	f	f	
Sodium carbonate	10	f	f	f
Sodium chlorate	5	f		
Sodium chlorite	25	f	f	
Sodium chloride	S	f	f	f
Sodium disulphite	S	f	f	f
Sodium hidroxide	100	f	f	
Sodium hydroxide	50	f	f	
Sodium hydroxide	25	f	f	
Sodium hidroxide	10	f	f	
Sodium nitrate	S	f	f	
Sodium nitrite (P)	S	f		
Sodium perborate	S	f	f	f
Sodium phosphate	S	f	f	f

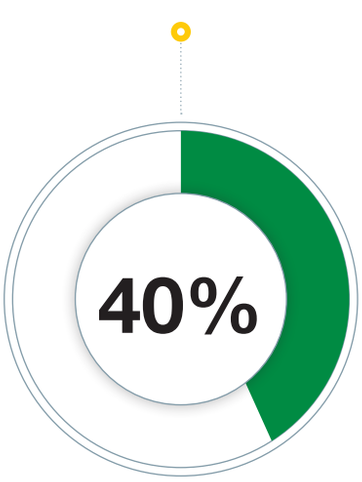
Products	Concentration	Temperature		
	%	20 C°	60 C°	100 C°
Sodium sulphate	S	f	f	f
Sodium sulphite	S	f	f	
Soluble coffee		f	f	f
Say-bean oil		f	p	
Sulphocromic acid		n	n	
Sulphur	100	f	f	f
Sulphuric acid	96	f	p	
Sulphuric acid	50	f	f	
Sulphuric acid	25	f	f	
Sulphuric acid	10	f	f	f
Sulphurous anhydride	Low	f	f	
Spirits		f		
Stannus chloride	S	f	f	
Starch	All	f	f	
Stearic acid	100	f		
Succinic acid	100	f	f	
Super gasoline		p	n	
Syntetic detersive		f	f	f
Tar		f	p	
Tartaric acid	S	f	f	
Tartaric acid	10	p	p	
Tetrahydrofurane	100	p	n	
Tetrahydronaphtalene	100	p	n	
Thea		f	f	p
Thiophene	100	p	n	
Tlouen	100	p	n	
Tomatoes-juice		f	f	
Tooth paste		f	f	
Trichlorcethylene	100	p	p	
Turpentine		n	n	n
Turpentine oil		p	n	
Two stroke engine oil		p	p	
Typewriter oil		f	p	
Urea	S	f	f	
Vaselina		f	p	
Vegetable cooking oil		f	p	
Water	100	f	f	f
Whipped cream		f		
Whisky	40	f		
Xylene or xylol	100	p	n	

Metal Insert Used For The Fittings Are BRASS MS 58 Which Means

Copper

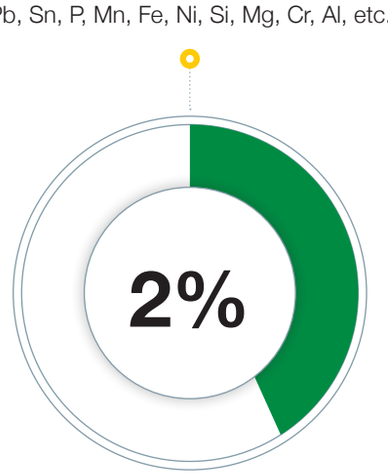


Zinc



Others

Pb, Sn, P, Mn, Fe, Ni, Si, Mg, Cr, Al, etc.



Norms in Use

TS-DIN I988
Drinking water line installation.

TS-DIN 2999
Whitworth pipe threads tor tubes and Fittings.

TS-DIN 4109
Sound insulation in building construction.

TS-DIN 8077
Polypropylene (PP-R) pipes dimensions.

TS-DIN 8078
Polypropylene (PP-R) pipes general quality requirements and testing.

TS-DIN 16928
Pipe connections and components - Pipes of thermoplastic materials; pipe joints, elements for pipes, laying; general directions.

TS-DIN 16962 (6-9)
Pipe joints and elements for polypropylene (PP-R) pressure pipelines, types 1 and 2; injection moulded elbows tor socket-welding, dimension.

TS-DIN 16962.5
Pipe joints and components of polypropylene (PP-R) For pipes under pressure, Part 5: General quality requirements, testing.

TS-DVS 2207.11
Welding regulations for plastic pipes.

TS-DVS 2208.1
Machines and devices for welding thermoplastic pipes.

TS-EN ISO 15874 -2-3
Plastics piping systems for hot and cold water installations polypropylene (PP-R)

TSE K 28
Multi-layer glass Fiber pipes From Polypropylene (PP) - pressure pipes used for hot and cold water systems.

TS 9937
Plastic Pipes trom Polypropylene (PP) - general purpose.

Transport & Storage | Транспортировка и хранение | ا لنقل و ا لتخزين

• Store the pipe and fittings sheltered from sun and rain. Do not expose the UV radiation for a long time.

• Хранить трубы и фитинги в защищенном от солнца и дождя месте. Не подвергайте УВ излужению в течении длительного времени.

• خزن الأنابيب وملحقاتها بعيداً عن اشعة الشمس والمطر لا تعرضها للأشعة فوق البنفسجية لفترة طويلة

• Do not store at temperatures below 0°C. Impacts can form cracks on pipes.

• Не храните при температуре ниже 0°C. Есть вероятность оброзования трещин на трубах.

• لا تخزن فى درجة حرارة اقل من 0 درجة مئوية التاثيرات: قد تسبب تشقق في الأنابيب

• Protect the impact of hard and sharp objects.

• Защищайте от воздействия твердых и острых предметов.

• الأجسام الحاده والصلهه قد تسهب التلف

• Although it is quite durable please do not throw of during loading and unloading.

• Не бросайте во время погрузки и разгрузки.

• الرجاء عدو رمي خلال التحميل والتفريغ

• Please move carefully and stacked.

• Передвигайте и складывайте осторожно.

• الرجاء نقل بعناية وترتيب

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PP-R Pipes & Fittings

PVC PIPE & FITTINGS 2

PIPES (3.2 mm -TYPE 1)

Code	Size/mm	Min.Qty/pcs
TP1-050015	50/150	100
TP1-050025	50/250	80
TP1-050050	50/500	30
TP1-050100	50/1000	10
TP1-050200	50/2000	10
TP1-050300	50/3000	10
TP1-050600	50/6000	1
TP1-075015	75/150	50
TP1-075025	75/250	30
TP1-075050	75/500	15
TP1-075100	75/1000	5
TP1-075200	75/2000	5
TP1-075300	75/3000	5
TP1-075600	75/6000	1
TP1-110015	110/150	25
TP1-110025	110/250	20
TP1-110050	110/500	8
TP1-110100	110/1000	5
TP1-110200	110/2000	5
TP1-110300	110/3000	5
TP1-110600	110/6000	1
TP1-125015	125/150	18
TP1-125025	125/250	12
TP1-125050	125/500	10
TP1-125100	125/1000	5
TP1-125200	125/2000	5
TP1-125300	125/3000	3
TP1-125600	125/6000	1
TP1-160015	160/150	15
TP1-160025	160/250	15
TP1-160050	160/500	6
TP1-160100	160/1000	3
TP1-160200	160/2000	3
TP1-160300	160/3000	3
TP1-160600	160/6000	1
TP1-200015	200/150	5
TP1-200025	200/250	5
TP1-200050	200/500	2
TP1-200100	200/1000	1
TP1-200200	200/2000	1
TP1-200300	200/3000	1
TP1-200600	200/6000	1

PIPES (2.2 mm -TYPE 2)

Code	Size/mm	Min.Qty/pcs
TP2-050050	50/500	30
TP2-050100	50/1000	10
TP2-050200	50/2000	10
TP2-050300	50/3000	10
TP2-050600	50/6000	1
TP2-075050	75/500	15
TP2-075100	75/1000	5
TP2-075200	75/2000	5
TP2-075300	75/3000	5
TP2-075600	75/6000	1
TP2-110050	110/500	8
TP2-110100	110/1000	5
TP2-110200	110/2000	5
TP2-110300	110/3000	5
TP2-110600	110/6000	1
TP2-125050	125/500	10
TP2-125100	125/1000	5
TP2-125200	125/2000	5
TP2-125300	125/3000	5
TP2-125600	125/6000	1
TP2-160050	160/500	6
TP2-160100	160/1000	3
TP2-160200	160/2000	3
TP2-160300	160/3000	3
TP2-160600	160/6000	1
TP2-200050	200/500	2
TP2-200100	200/1000	1
TP2-200200	200/2000	1
TP2-200300	200/3000	1
TP2-200600	200/6000	1

ELBOW 45°

Code	Size/mm	Min.Qty/pcs
DRS-050045	50	200
DRS-075045	75	100
DRS-110045	110	35
DRS-125045	125	20
DRS-160045	160	12
DRS-200045	200	8

ELBOW 87°

Code	Size/mm	Min.Qty/pcs
DRS-050087	50	150
DRS-075087	75	75
DRS-110087	110	25
DRS-125087	125	20
DRS-160087	160	8
DRS-200087	200	6

SINGLE BRANCH 87°

Code	Size/mm	Min.Qty/pcs
TEC-050050	50x50	100
TEC-075050	75x50	50
TEC-075075	75x75	40
TEC-110050	110x50	10
TEC-110075	110x75	10
TEC-110110	110x110	10
TEC-125125	125x125	10
TEC-160110	160x110	10
TEC-160160	160x160	8
TEC-200110	200x110	5
TEC-200160	200x160	4
TEC-200200	200x200	3

SINGLE BRANCH 45°

Code	Size/mm	Min.Qty/pcs
TKC-050050	50x50	90
TKC-075050	75x50	50
TKC-075075	75x75	30
TKC-110050	110x50	10
TKC-110075	110x75	10
TKC-110110	110x110	10
TKC-125125	125x125	10
TKC-160110	160x110	10
TKC-160125	160x125	10
TKC-200160	160x160	8
TKC-200200	200x200	6

DOUBLE BRANCH 45°

Code	Size/mm	Min.Qty/pcs
YCC-050050	50x50	60
YCC-075050	75x50	40
YCC-075075	75x75	25
YCC-110050	110x50	10
YCC-110110	110x110	10
YCC-125125	125x125	10

CROSS

Code	Size/mm	Min.Qty/pcs
TCC-050050	50x50	50
TCC-075050	75x50	30
TCC-075075	75x75	25
TCC-110050	110x50	20
TCC-110110	110x110	10

SOCKET

Code	Size/mm	Min.Qty/pcs
KMN-050000	50	150
KMN-075000	75	75
KMN-110000	110	35
KMN-125000	125	25
KMN-150000	160	12
KMN-200000	200	8

REDUCTION

Code	Size/mm	Min.Qty/pcs
RDK-075050	75x50	125
RDK-110050	110x50	70
RDK-110075	110x75	50
RDK-125110	125x110	30
RDK-160110	160x110	20
RDK-200110	200x110	14
RDK-200160	200x160	12

CLEANING TEE

Code	Size/mm	Min.Qty/pcs
TMT-110000	110	10
TMT-125000	125	10
TMT-160000	160	8
TMT-200000	200	6

PLUG

Code	Size/mm	Min.Qty/pcs
KPM-050000	50	900
KPM-075000	75	300
KPM-110000	110	130
KPM-125000	125	100
KPM-160000	160	75

SIPHON

Code	Size/mm	Min.Qty/pcs
SFN-075087	75x87°	8
SFN-075045	75x45°	8
SFN-110087	110x87°	10
SFN-110045	110x45°	10

KADA

Code	Size/mm	Min.Qty/pcs
EKK-110000	110	100

JOİN GASKET

Code	Size/mm	Min.Qty/pcs
ADC-050000	50	500

WATE WATER CLAMP

Code	Size/mm	Min.Qty/pcs
ATK-050000	50 mm	250
ATK-063000	63 mm	150
ATK-750000	75 mm	100
ATK-110000	110 mm	130
ATK-125000	125 mm	100
ATK-160000	160 mm	75
ATK-200000	200 mm	40

NON RETURN VALVE - with cap

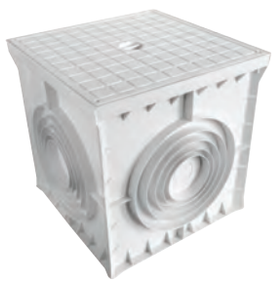
Code	Size/mm	Min.Qty/pcs
KPC-110000	110	8
KPC-125000	125	8
KPC-160000	160	8

NON RETURN VALVE - locked

Code	Size/mm	Min.Qty/pcs
KLC-110000	110	8
KLC-125000	125	8
KLC-160000	160	8
KLC-200000	200	1

MANHOLE - flat cap

Code	Size (cm)	Min.Qty/pcs
LKS-202020	20x20x20	1
LKS-303030	30x30x30	1
LKS-362632	36x26x32	1
LKS-404040	40x40x40	1
LKS-484845	48x48x45	1
LKS-555550	55x55x50	1



MANHOLE - grid cap

Code	Size (cm)	Min.Qty/pcs
LIS-202020	20x20x20	1
LIS-303030	30x30x30	1
LIS-362632	36x26x32	1
LIS-404040	40x40x40	1
LIS-484845	48x48x45	1
LIS-555550	55x55x50	1

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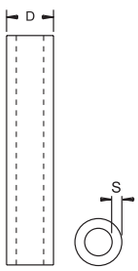
PP-R Pipes & Fittings

3

PP-R PIPE

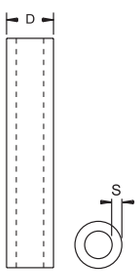
PIPE



PN 10 Труба | PN 10 انبوب

Code	Size/mm	S	D	Min.Qty/pcs
DUZ-200010	20	1.9	20.3	140/4.00
DUZ-250010	25	2.3	25.3	100/4.00
DUZ-320010	32	2.9	32.3	60/4.00
DUZ-400010	40	3.7	40.4	40/4.00
DUZ-500010	50	4.6	50.5	24/4.00
DUZ-630010	63	5.8	63.6	20/4.00
DUZ-750010	75	6.8	75.7	12/4.00
DUZ-900010	90	8.2	90.9	8/4.00
DUZ-110010	110	10	111	4/4.00
DUZ-125010	125	11.4	126.2	4/4.00

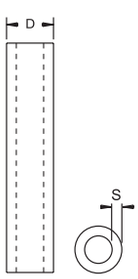
PIPE



PN 16 Труба | PN 16 انبوب

Code	Size/mm	S	D	Min.Qty/pcs
DUZ-200016	20	2.8	20.3	140/4.00
DUZ-250016	25	3.5	25.3	100/4.00
DUZ-320016	32	4.4	32.3	60/4.00
DUZ-400016	40	5.5	40.4	40/4.00
DUZ-500016	50	6.9	50.5	24/4.00
DUZ-630016	63	8.6	63.6	20/4.00
DUZ-750016	75	10.3	75.7	12/4.00
DUZ-900016	90	12.3	90.9	8/4.00
DUZ-110016	110	15.1	111	4/4.00
DUZ-125016	125	17.1	126.2	4/4.00

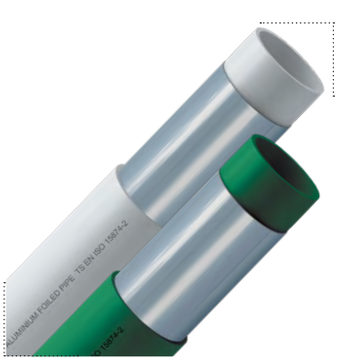
PIPE

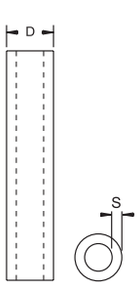


PN 20 Труба | PN 20 انبوب

Code	Size/mm	S	D	Min.Qty/pcs
DUZ-200020	20	3.4	20.3	140/4.00
DUZ-250020	25	4.2	25.3	100/4.00
DUZ-320020	32	5.4	32.3	60/4.00
DUZ-400020	40	6.7	40.4	40/4.00
DUZ-500020	50	8.3	50.5	24/4.00
DUZ-630020	63	10.5	63.6	20/4.00
DUZ-750020	75	12.5	75.7	12/4.00
DUZ-900020	90	15.0	90.9	8/4.00
DUZ-110020	110	18.3	111	4/4.00
DUZ-125020	125	20.8	126.2	4/4.00

FOROXI PIPE





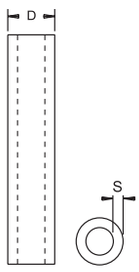
Труба FOROXI (с внутренней армировкой) PN20 | PN20 انبوب مغلف بالألمنيوم

Code	Size/mm	S	D	Min.Qty/pcs
OFL-200020	20	2.8	20.3	140/4.00
OFL-250020	25	3.5	25.3	100/4.00
OFL-320020	32	4.4	32.3	60/4.00
OFL-400020	40	5.5	40.4	40/4.00
OFL-500020	50	6.9	50.5	24/4.00
OFL-630020	63	8.6	63.6	20/4.00
OFL-750020	75	10.3	75.7	12/4.00
OFL-900020	90	12.3	90.9	8/4.00
OFL-110020	110	15.1	111	4/4.00

Available Colours

Труба FOROXI (с внутренней армировкой) PN25 | PN25انبوب مغلف بالالمنيوم

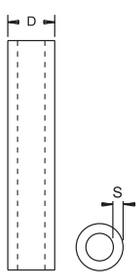
Code	Size/mm	S	D	Min.Qty/pcs
OFL-200025	20	3.4	20.3	140/4.00
OFL-250025	25	4.2	25.3	100/4.00
OFL-320025	32	5.4	32.3	60/4.00
OFL-400025	40	6.7	40.4	40/4.00
OFL-500025	50	8.3	50.5	24/4.00
OFL-630025	63	10.5	63.6	20/4.00
OFL-750025	75	12.5	75.7	12/4.00
OFL-900025	90	15.0	90.9	8/4.00
OFL-110025	110	18.3	111	4/4.00



FOROXI PIPE

Труба армированная со стекловолокном PN20 | PN20 انبوب كومبوزيت

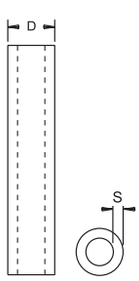
Code	Size/mm	S	D	Min.Qty/pcs
DGF-200020	20	2.8	20.3	140/4.00
DGF-250020	25	3.5	25.3	100/4.00
DGF-320020	32	4.4	32.3	60/4.00
DGF-400020	40	5.5	40.4	40/4.00
DGF-500020	50	6.9	50.5	24/4.00
DGF-630020	63	8.6	63.6	20/4.00
DGF-750020	75	10.3	75.7	12/4.00
DGF-900020	90	12.3	90.9	8/4.00
DGF-110020	110	15.1	111	4/4.00
DGF-125020	125	17.1	126.2	4/4.00



COMPOSITE PIPE

Труба армированная со стекловолокном PN25 | PN25 انبوب كومبوزيت

Code	Size/mm	S	D	Min.Qty/pcs
DGF-200025	20	3.4	20.3	140/4.00
DGF-250025	25	4.2	25.3	100/4.00
DGF-320025	32	5.4	32.3	60/4.00
DGF-400025	40	6.7	40.4	40/4.00
DGF-500025	50	8.3	50.5	24/4.00
DGF-630025	63	10.5	63.6	20/4.00
DGF-750025	75	12.5	75.7	12/4.00
DGF-900025	90	15.0	90.9	8/4.00
DGF-110025	110	18.3	111	4/4.00
DGF-125025	125	20.8	126.2	4/4.00



COMPOSITE PIPE

Available Colours

We owe
LIVEABLE WORLD
to our children

First Quality

formül®

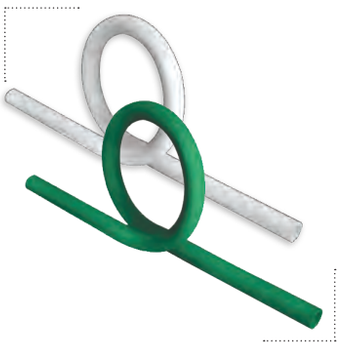
PP-R Pipes & Fittings

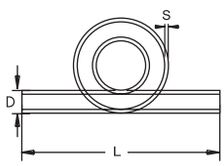
4

PP-R FITTINGS

OMEGA

Компенсатор Омега PN20 | PN20 جسر لحام

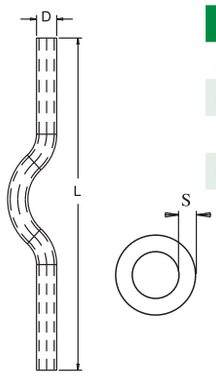




Code	Size/mm	S	D	L	Min.Qty/pcs
OMG-200020	20	3.4	20.3	350	85
OMG-250020	25	4.2	25.3	350	45
OMG-320020	32	5.4	32.3	350	22
OMG-400020	40	6.7	40.4	350	15

CROSSOVER

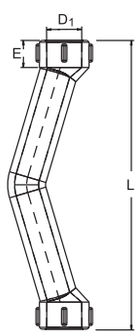
Обводное колено PN20 | PN20 انبوب منحرف



Code	Size/mm	S	D	L	Min.Qty/pcs
KVS-200020	20	3.4	20.3	350	160
KVS-250020	25	4.2	25.3	350	100
KVS-320020	32	5.4	32.3	350	65
KVS-400020	40	6.7	40.4	350	40

CROSSOVER WITH SOCKET - LONG

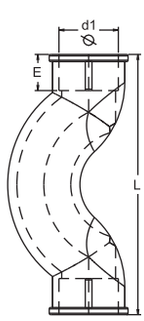
Обводное колено расструбное PN25 | PN25 انبوب منحرف مع وصل



Code	Size/mm	ø d1	E	L	Min.Qty/pcs
MKV-200000	20	19.5	14.5	162	125
MKV-250000	25	24.5	16	200	80
MKV-320000	32	31.5	18	240	30

CROSSOVER WITH SOCKET - SHORT

Обводное колено (короткое) PN25 | PN25 انبوب منحرف مع وصل



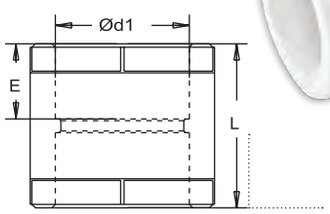
Code	Size/mm	Ø d1	E	L	Min.Qty/pcs
MKK-200000	20	19.5	14.5	86	200
MKK-250000	25	24.5	16	95	125
MKK-320000	32	31.5	18	117	60

Available Colours

SOCKET

Муфта PN25 | PN25 وصل لحام

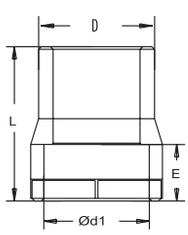
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
MAN-200000	20	19.5	34	14.5	600
MAN-250000	25	24.5	37	16	300
MAN-320000	32	31.5	41	18	200
MAN-400000	40	39.4	45	20.5	100
MAN-500000	50	49.4	52	23.5	60
MAN-630000	63	62.5	60	27.5	36
MAN-750000	75	74.2	65	31	24
MAN-900000	90	89.2	71	35.5	16
MAN-110000	110	109	79	41.5	6
MAN-125000	125	123.9	104	46.5	4



REDUCER

Муфта переходная BH/HP PN25 | PN25 نقاصه

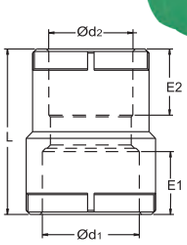
Code	Size/mm	Ø d1	L	E	D	Min.Qty/pcs
RDS-252000	25/20	19.5	39	14.5	25	500
RDS-322000	32/20	19.5	39	14.5	32	400
RDS-322500	32/25	24.5	43	16	32	300
RDS-402000	40/20	19.5	39	14.5	40	200
RDS-402500	40/25	24.5	43	16	40	200
RDS-403200	40/32	31.5	48	18	40	150
RDS-502500	50/25	24.5	43	16	50	100
RDS-503200	50/32	31.5	48	18	50	100
RDS-504000	50/40	39.4	52	20.5	50	80
RDS-633200	63/32	31.5	48	18	63	60
RDS-634000	63/40	39.4	52	20.5	63	60
RDS-635000	63/50	49.4	60	23.5	63	50
RDS-754000	75/40	39.4	52	20.5	75	40
RDS-755000	75/50	49.4	60	23.5	75	40
RDS-756300	75/63	62.5	67	27.5	75	30
RDS-905000	90/50	49.4	60	23.5	90	20
RDS-906300	90/63	62.5	67	27.5	90	20
RDS-907500	90/75	74.2	72	31	90	16
RDS-116300	110/63	62.5	67	27.5	110	16
RDS-117500	110/75	74.2	72	31	110	16
RDS-119000	110/90	89.2	90	35.5	110	16
RDS-129000	125/90	89.2	120	35.5	125	6
RDS-121100	125/110	109	120	41.5	125	5



REDUCER SOCKET

Муфта переходная BH/BH PN25 | PN25 نقاصه

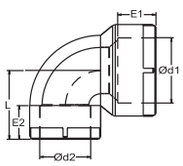
Code	Size/mm	Ø d1	Ø d2	E1	E2	L	Min.Qty/pcs
RDM-252000	25/20	24.5	19.5	16	14.5	35	400
RDM-322000	32/20	31.5	19.5	18	14.5	38	300
RDM-322500	32/25	31.5	24.5	18	16	40	250
RDM-402000	40/20	39.4	19.5	20.5	14.5	47	150
RDM-402500	40/25	39.4	24.5	20.5	16	47	150
RDM-403200	40/32	39.4	31.5	20.5	18	47	125
RDM-502000	50/20	49.4	19.5	23.5	14.5	50	100
RDM-502500	50/25	49.4	24.5	23.5	16	50	100
RDM-503200	50/32	49.4	31.5	23.5	18	50	80
RDM-504000	50/40	49.4	39.4	23.5	20.5	50	75
RDM-632000	63/20	62.5	19.5	27.5	14.5	60	40
RDM-632500	63/25	62.5	24.5	27.5	16	60	40
RDM-633200	63/32	62.5	31.5	27.5	18	60	40
RDM-634000	63/40	62.5	39.4	27.5	20.5	65	40
RDM-635000	63/50	62.5	49.4	27.5	23.5	66	35



90º REDUCER ELBOW

90º Угольник переходной PN25 | PN25 90º كوع منقص

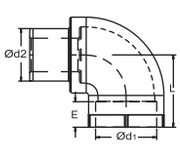
Code	Size/mm	Ø d1	Ø d2	E1	E2	L	Min.Qty/pcs
RDD-252000	25/20	24.5	19.5	16	14.5	29	250
RDD-322500	32/25	31.5	24.5	18	16	33	150



90º TAIL ELBOW

90º Угольник переходной внутр./наруж. PN25 | PN25 كوع زاويه 90º منقص

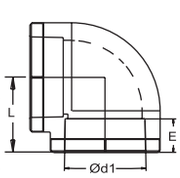
Code	Size/mm	Ø d1	Ø d2	L	E	Min.Qty/pcs
KDR-200090	20	19.5	20.3	23	14.5	300
KDR-250090	25	24.5	25.3	25	16	200
KDR-320090	32	31.5	32.3	28	18	100



90º ELBOW

90º Угольник PN25 | PN25 90 كوع زاويه

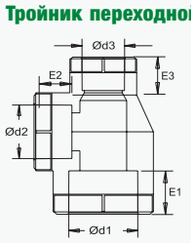
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DIR-200090	20	19.5	23	14.5	400
DIR-250090	25	24.5	25	16	250
DIR-320090	32	31.5	28	18	125
DIR-400090	40	39.4	32	20.5	60
DIR-500090	50	49.4	37	23.5	35
DIR-630090	63	62.5	54	27.5	15
DIR-750090	75	74.2	60	31	12
DIR-900090	90	89.2	76	35.5	6
DIR-110090	110	109	94	41.5	2
DIR-125090	125	123.9	110	46.5	2



REDUCER TEE

PN25 تى منقص

Тройник переходной PN25

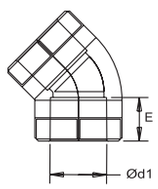


Code	Size/mm	Ø d1	E1	Ø d2	E2	Ø d3	E3	Min.Qty/pcs
ITE-202520	20/25/20	19.5	14.5	24.5	16	19.5	14.5	200
ITE-252020	25/20/20	24.5	16	19.5	14.5	19.5	14.5	150
ITE-252025	25/20/25	24.5	16	19.5	14.5	24.5	16	200
ITE-252520	25/25/20	24.5	16	24.5	16	19.5	14.5	150
ITE-322020	32/20/20	31.5	18	19.5	14.5	19.5	14.5	100
ITE-322025	32/20/25	31.5	18	19.5	14.5	24.5	16	100
ITE-322032	32/20/32	31.5	18	19.5	14.5	31.5	18	100
ITE-322520	32/25/20	31.5	18	24.5	16	19.5	14.5	100
ITE-322525	32/25/25	31.5	18	24.5	16	24.5	16.0	100
ITE-322532	32/25/32	31.5	18	24.5	16	31.5	18	100
ITE-402040	40/20/40	39.4	20.5	19.5	14.5	39.4	20.5	50
ITE-402540	40/25/40	39.4	20.5	24.5	16	39.4	20.5	50
ITE-403240	40/32/40	39.4	20.5	31.5	18	39.4	20.5	40
ITE-502050	50/20/50	49.4	23.5	19.5	14.5	49.4	23.5	30
ITE-502550	50/25/50	49.4	23.5	24.5	16	49.4	23.5	30
ITE-503250	50/32/50	49.4	23.5	31.5	18	49.4	23.5	30
ITE-504050	50/40/50	49.4	23.5	39.4	20.5	49.4	23.5	25
ITE-632063	63/20/63	62.5	27.5	19.5	14.5	62.5	27.5	24
ITE-632563	63/25/63	62.5	27.5	24.5	16	62.5	27.5	24
ITE-633263	63/32/63	62.5	27.5	31.5	18	62.5	27.5	24

45° ELBOW

45° Угольник PN25 | PN25 كوع 45° درجة

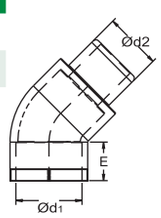
Code	Size/mm	D1	E	Min.Qty/pcs
DIR-200045	20	19.5	14.5	500
DIR-250045	25	24.5	16	300
DIR-320045	32	31.5	18	125
DIR-400045	40	39.4	20.5	80
DIR-500045	50	49.4	23.5	40
DIR-630045	63	62.5	27.5	20
DIR-750045	75	74.2	31	15
DIR-900045	90	89.2	35.5	8
DIR-110045	110	109	41.5	4



45° TAIL ELBOW

45° Угольник переходной внутр./наруж. PN25 | PN25 كوع 45° درجة

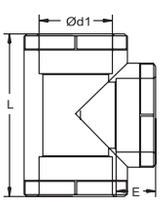
Code	Size/mm	Ø d1	Ø d2	E	Min.Qty/pcs
KDR-200045	20	19.5	20.3	14.5	300
KDR-250045	25	24.5	25.3	16	200
KDR-320045	32	31.5	32.3	18	100



TEE

Тройник PN25 | PN25 تي

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
TEE-200000	20	19.5	52	14.5	250
TEE-250000	25	24.5	59	16	150
TEE-320000	32	31.5	70	18	80
TEE-400000	40	39.4	82	20.5	40
TEE-500000	50	49.4	100	23.5	25
TEE-630000	63	62.5	120	27.5	16
TEE-750000	75	74.2	137	31	10
TEE-900000	90	89.2	160	35.5	5
TEE-110000	110	109	190	41.5	2
TEE-125000	125	123.9	221	46.5	2

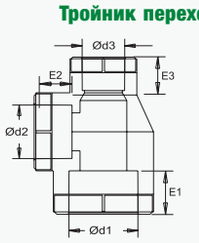


REDUCER TEE

Code	Size/mm	Ø d1	E1	Ø d2	E2	Ø d3	E3	Min.Qty/pcs
ITE-634063	63/40/63	62.5	27.5	39.4	20.5	62.5	27.5	16
ITE-635063	63/50/63	62.5	27.5	49.4	23.5	62.5	27.5	16
ITE-752075	75/20/75	74.2	31	19.5	14.5	74.2	31	10
ITE-752575	75/25/75	74.2	31	24.5	16	74.2	31	10
ITE-753275	75/32/75	74.2	31	31.5	18	74.2	31	10
ITE-754075	75/40/75	74.2	31	39.4	20.5	74.2	31	10
ITE-755075	75/50/75	74.2	31	49.4	23.5	74.2	31	10
ITE-756375	75/63/75	74.2	31	62.5	27.5	74.2	31	10
ITE-902590	90/25/90	89.2	35.5	24.5	16	89.2	35.5	5
ITE-903290	90/32/90	89.2	35.5	31.5	18	89.2	35.5	5
ITE-904090	90/40/90	89.2	35.5	39.4	20.5	89.2	35.5	5
ITE-905090	90/50/90	89.2	35.5	49.4	23.5	89.2	35.5	5
ITE-906390	90/63/90	89.2	35.5	62.5	27.5	89.2	35.5	5
ITE-907590	90/75/90	89.2	35.5	74.2	31	89.2	35.5	5
ITE-113211	110/32/110	109	41.5	31.5	18	109	41.5	2
ITE-114011	110/40/110	109	41.5	39.4	20.5	109	41.5	2
ITE-115011	110/50/110	109	41.5	49.4	23.5	109	41.5	2
ITE-116311	110/63/110	109	41.5	62.5	27.5	109	41.5	2
ITE-117511	110/75/110	109	41.5	74.2	31	109	41.5	2
ITE-119011	110/90/110	109	41.5	89.2	35.5	109	41.5	2
ITE-121112	125/110/125	123.9	46.5	109	41.5	123.9	46.5	2

تي منقص PN25

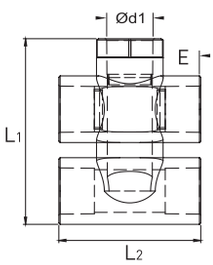
Тройник переходной PN25



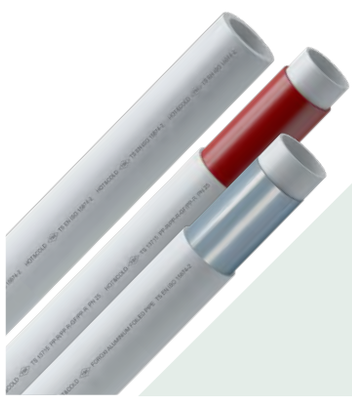
Available Colours

RADIATOR BYPASS

Байпас радиаторный PN25 | PN25 قطعه توزيع المشعات

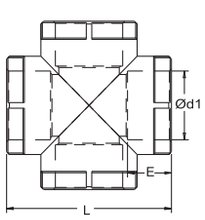


Code	Size/mm	Ø d1	E	L1	L2	Min.Qty/pcs
RBS-202000	20/20	19.5	14.5	78.3	60	100
RBS-252500	25/25	24.5	16	93	70	60



call for
Specific Product Development

CROSS

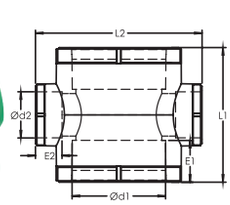


Крестовина PN25 | PN25 تي مصلب

Code	Size/mm	Ø d1	E	L	Min.Qty/pcs
IST-200000	20	19.5	14.5	50	200
IST-250000	25	24.5	16	55	125
IST-320000	32	31.5	18	60	60
IST-400000	40	39.4	20.5	86	40

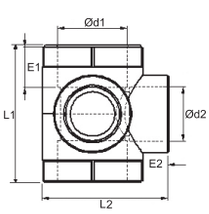
REDUCER CROSS

Крестовина переходная PN25 | PN25 تي منقص



Code	Size/mm	Ød1	Ød2	E1	E2	L1	L2	Min.Qty/pcs
IIS-252000	25/20	24.5	19.5	16.0	14.5	56	56	150
IIS-322500	32/25	31.5	24.5	18	16.0	70	70	75
IIS-403200	40/32	39.4	31.5	20.5	18	86	86	40
IIS-502000	50/20	49.4	19.5	23.5	14.5	84	95	30
IIS-502500	50/25	49.4	24.5	23.5	16	84	95	30
IIS-503200	50/32	49.4	31.5	23.5	18	114	95	25
IIS-504000	50/40	49.4	39.4	23.5	20.5	114	95	25
IIS-632000	63/20	62.5	19.5	27.5	14.5	91	111	16
IIS-632500	63/25	62.5	24.5	27.5	16	91	111	16
IIS-633200	63/32	62.5	31.5	27.5	18	127	113	16
IIS-634000	63/40	62.5	39.4	27.5	20.5	127	113	16
IIS-635000	63/50	62.5	49.4	27.5	23.5	127	113	12

CORNER CROSS



Крестовина угловая PN25 | PN25 قطعه توزيع زوايه

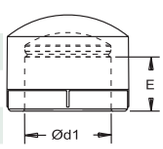
Code	Size/mm	Ød1	Ød2	E1	E2	L1	L2	Min.Qty/pcs
KIS-322000	32/20	31.5	19.5	18	14.5	62	57	80
KIS-322500	32/25	31.5	24.5	18	16	62	57	80
KIS-402000	40/20	39.4	19.5	20.5	14.5	66	60	60
KIS-402500	40/25	39.4	24.5	20.5	16	66	60	60

Available Colours

STOPEND

Заглушка PN25 | PN25 سدة التلحيم

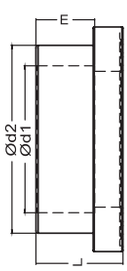
Code	Size/mm	D1	E	Min.Qty/pcs
KPB-200000	20	19.5	14.5	750
KPB-250000	25	24.5	16	500
KPB-320000	32	31.5	18	250
KPB-400000	40	39.4	20.5	150
KPB-500000	50	49.4	23.5	80
KPB-630000	63	62.5	27.5	50
KPB-750000	75	74.2	31	25
KPB-900000	90	89.2	35.5	18
KPB-110000	110	109	41.5	9
KPB-125000	125	123.9	46.5	6



FLANGE ADAPTOR

Адаптор для фланца | سدة تلحيم

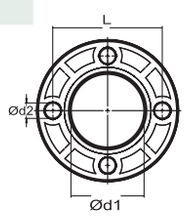
Code	Size/mm	Ø d1	Ø d2	E	L	Min.Qty/pcs
FLA-500000	50	49.4	65	23.5	32	80
FLA-630000	63	62.5	80	27.5	40	50
FLA-750000	75	74.2	95	31	40	40
FLA-900000	90	89.2	111	35.5	42	25
FLA-110000	110	109	132	41.5	49	12



FLANGE

Фланец | فلانش

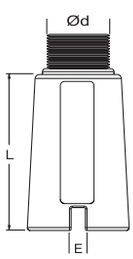
Code	Size/mm	Ø d1	Ø d2	L	Min.Qty/pcs
FLN-500000	50	66	17	109	30
FLN-630000	63	81	17	121	30
FLN-750000	75	97	17	144	16
FLN-900000	90	113	17	160	16
FLN-110000	110	133	17	180	12



END PLUG - LONG

Заглушка с резьбой (Длинная) PN25 | PN25 سدة بسن دكر طويل

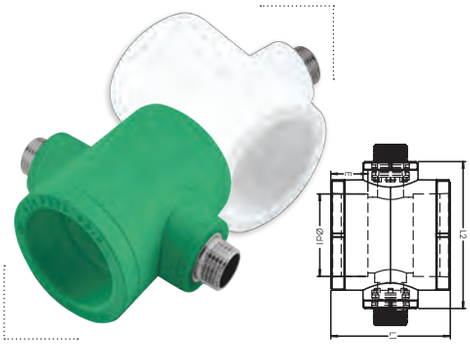
Code	Size/mm	d	L	E	Min.Qty/pcs
UKT-200012	20 x 1/2”	20.3	56	5	750



Available Colours

MALE CROSS

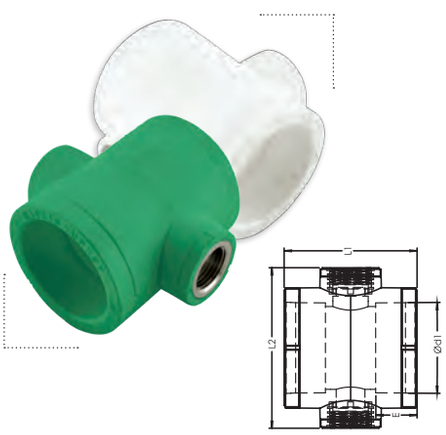
Крестовина НР | صليب بسن خارجي



Code	Size/mm	Ø d1	E	L1	L2	Min.Qty/pcs
EIM-500012	50 x 1/2”	49.4	23.5	84	95	16
EIM-500034	50 x 3/4”	49.4	23.5	84	95	16
EIM-500100	50 x 1”	49.4	23.5	114	95	16
EIM-500114	50 x 1 1/4”	49.4	23.5	114	95	12
EIM-630012	63 x 1/2”	62.5	27.5	91	111	8
EIM-630034	63 x 3/4”	62.5	27.5	91	111	8
EIM-630100	63 x 1”	62.5	27.5	127	113	8
EIM-630114	63 x 1 1/4”	62.5	27.5	127	120	6

FEMALE CROSS

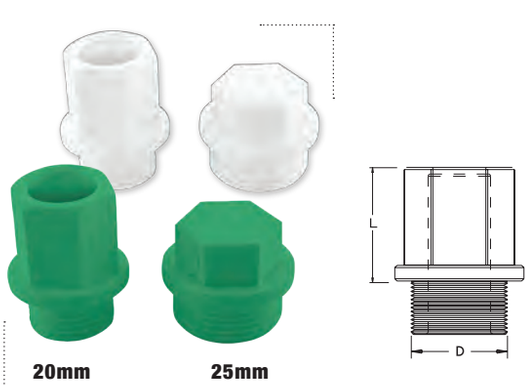
Крестовина ВР PN25 | PN25 صليب بسن داخلي



Code	Size/mm	Ø d1	E	L1	L2	Min.Qty/pcs
DIM-250012	25 x 1/2”	24.5	16	56	56	80
DIM-320034	32 x 3/4”	31.5	18	70	70	40
DIM-400034	40 x 3/4”	39.4	20.5	86	86	20
DIM-400100	40 x 1”	39.4	20.5	86	86	20
DIM-500012	50 x 1/2”	49.4	23.5	84	95	16
DIM-500034	50 x 3/4”	49.4	23.5	84	95	16
DIM-500100	50 x 1”	49.4	23.5	114	95	16
DIM-500114	50 x 1 1/4”	49.4	23.5	114	95	12
DIM-630012	63 x 1/2”	62.5	27.5	91	111	8
DIM-630034	63 x 3/4”	62.5	27.5	91	111	8
DIM-630100	63 x 1”	62.5	27.5	127	113	8
DIM-630114	63 x 1 1/4”	62.5	27.5	127	120	6

END PLUG

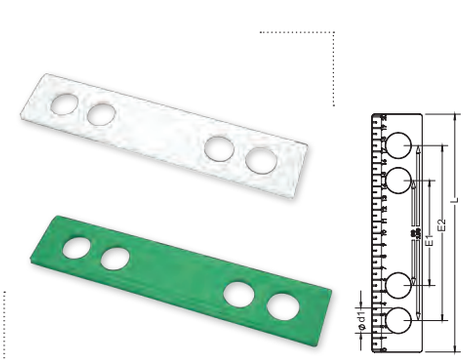
Заглушка с резьбой PN25 | PN25 سدة بسن دكر قصير



Code	Size/mm	D	L	Min.Qty/pcs
KTP-200012	20 x 1/2”	20.3	25	2500
KTP-250034	25 x 3/4”	26	15	2500

sky series
call for
Very Fast Delivery

RULER



Линейка | مسطره

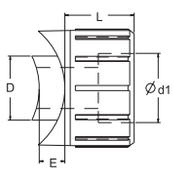
Code	Size/mm	Ø d1	E1	E2	L	Min.Qty/pcs
CTV-000000	1/2”	20.5	90	150	200	400

Available Colours

SADDLE

Вварное седло PN25 | PN25 وصل تلحيم الطرفين على الإنبوب

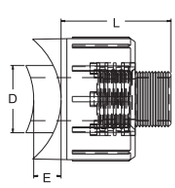
Code	Size/mm	Ø d1	D	L	E	Min.Qty/pcs
KBP-200000	20	19.5	20.3	22	14.5	300
KBP-250000	25	24.5	25.3	25	16	200
KBP-320000	32	31.5	32.3	30	18	100



SADDLE MALE

Вварное седло с наружной резьбой PN25 | PN25 وصلة بسن ذكر

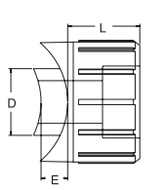
Code	Size/mm	D	L	E	Min.Qty/pcs
EKB-200012	20 x 1/2”	20.3	40	14.5	150
EKB-250012	25 x 1/2”	25.3	40	16	100
EKB-250034	25 x 3/4”	25.3	42	16	100
EKB-320100	32 x 1	32.3	44	18	50



SADDLE FEMALE

Вварное седло с внутренней резьбой PN25 | PN25 وصله تلحيم انثى مع الإنبوب

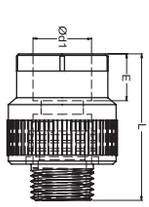
Code	Size/mm	D	L	E	Min.Qty/pcs
DKB-200012	20 x 1/2”	20.3	22	14.5	150
DKB-250012	25 x 1/2”	25.3	25	16	100
DKB-250034	25 x 3/4”	25.3	25	16	100
DKB-320100	32 x 1	32.3	30	18	50



MALE NIPPLE ROUNDED

Муфта комбинированная НР Круглая PN25 | PN25 محول ذكر

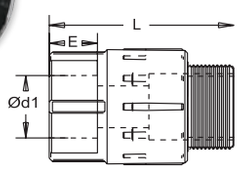
Code	Size/mm	Ø d1	E	L	Min.Qty/pcs
EDN-200012	20 x 1/2’	19.5	14.5	48	150
EDN-250012	25 x 1/2’	24.5	16	56	100



Available Colours

MALE NIPPLE

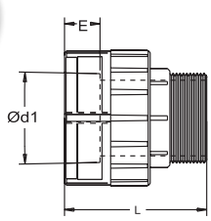
Муфта комбинированная НР PN25 | PN25 محول ذكر



Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
ENP-200012	20 x 1/2”	19.5	55	14.5	150
ENP-200034	20 x 3/4”	19.5	55	14.5	100
ENP-250012	25 x 1/2”	24.5	57	16	125
ENP-250034	25 x 3/4”	24.5	57	16	80
ENP-250100	25 x 1”	24.5	57	16	50
ENP-320012	32 x 1/2”	31.5	60	18	50
ENP-320034	32 x 3/4”	31.5	60	18	60
ENP-320100	32 x 1”	31.5	60	18	60

MALE NIPPLE HEXAGONAL

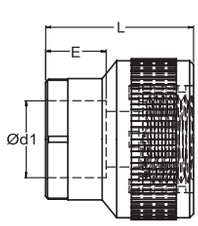
Муфта комбинированная НР под ключ PN25 | PN25 وصلة ذكر بسن سداسية الشكل



Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
AEN-320100	32 x 1”	31.5	59	18	50
AEN-400100	40 x 1”	39.4	75	20.5	20
AEN-400114	40 x 1 1/4”	39.4	80	20.5	20
AEN-500112	50 x 1 1/2”	49.4	90	23.5	15
AEN-630200	63 x 2”	62.5	95	27.5	10
AEN-750212	75 x 2 1/2”	74.2	105	31	6
AEN-900300	90 x 3”	89.2	120	35.5	4
AEN-110400	110 x 4”	109	130	41.5	2
AEN-125500	125 x 5”	123.9	140	46.5	2

FEMALE NIPPLE ROUNDED

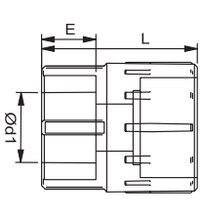
Муфта комбинированная ВР Круглая PN25 | PN25 وصلة بسن انثى



Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DDN-200012	20 x 1/2’	19.5	38	14.5	125
DDN-250012	25 x 1/2’	24.5	43	16	100

FEMALE NIPPLE

Муфта комбинированная ВР PN25 | PN25 وصلة بسن انثى



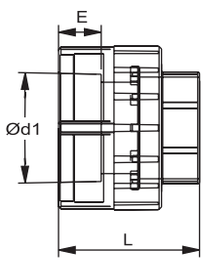
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DNP-200012	20 x 1/2”	19.5	40	14.5	150
DNP-200034	20 x 3/4”	19.5	40	14.5	125
DNP-250012	25 x 1/2”	24.5	42	16	125
DNP-250034	25 x 3/4”	24.5	42	16	100
DNP-250100	25 x 1”	24.5	42	16	50
DNP-320012	32 x 1/2”	31.5	44	18	75
DNP-320034	32 x 3/4”	31.5	44	18	50
DNP-320100	32 x 1”	31.5	44	18	75

Available Colours

Муфта комбинированная ВР под ключ PN25 | PN25 وصله بسن انثى بشكل سداسيه

FEMALE NIPPLE HEXAGONAL

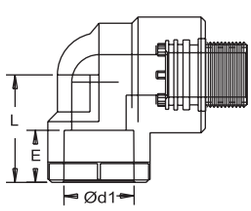
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
ADN-320100	32 x 1”	31.5	55	18	40
ADN-400100	40 x 1”	39.4	60	20.5	20
ADN-400114	40 x 1 1/4”	39.4	65	20.5	20
ADN-500112	50 x 1 1/2”	49.4	70	23.5	20
ADN-630200	63 x 2”	62.5	75	27.5	10
ADN-750212	75 x 2 1/2”	74.2	80	31	8
ADN-900300	90 x 3”	89.2	105	35.5	6
ADN-110400	110 x 4”	109	110	41.5	2
ADN-125500	125 x 5”	123.9	130	46.5	2



Угольник комбинированный НР PN25 | PN25 كوع بسن دكر

MALE ELBOW

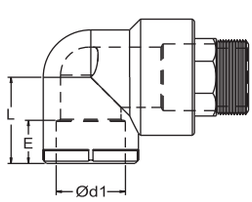
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
EDR-200012	20 x 1/2”	19.5	35	14.5	100
EDR-200034	20 x 3/4”	19.5	35	14.5	75
EDR-250012	25 x 1/2”	24.5	40	16	100
EDR-250034	25 x 3/4”	24.5	40	16	75
EDR-320012	32 x 1/2”	31.5	45	18	30
EDR-320034	32 x 3/4”	31.5	45	18	30
EDR-320100	32 x 1”	31.5	45	18	30



Угольник комбинированный НР под ключ PN25 | PN25 كوع بسن الدكر سداسي الشكل

MALE ELBOW HEXAGONAL

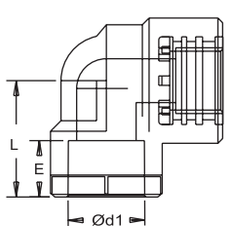
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
AED-320100	32 x 1”	31.5	38.5	18	30
AED-400114	40 x 1 1/4”	39.4	48.5	20.5	20



Угольник комбинированный ВР PN25 | PN25 كوع بسن داخلي انثى

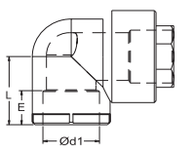
FEMALE ELBOW

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DDR-200012	20 x 1/2”	19.5	35	14.5	125
DDR-200034	20 x 3/4”	19.5	35	14.5	80
DDR-250012	25 x 1/2”	24.5	40	16	125
DDR-250034	25 x 3/4”	24.5	40	16	80
DDR-320012	32 x 1/2”	31.5	45	18	30
DDR-320034	32 x 3/4”	31.5	45	18	30
DDR-320100	32/1”	31.5	45	18	30



Available Colours

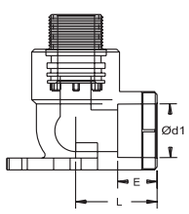
FEMALE ELBOW HEXAGONAL



Угольник комбинированный ВР под ключ PN25 | PN25 كوع بسن انثى سداسية الشكل

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
ADD-320100	32 x 1”	31.5	38.5	18	30
ADD-400114	40 x 1 1/4”	39.4	48.5	20.5	20

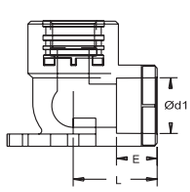
MALE BATTERY TRIPLE CONNECTION



Уголок для смесителя НР Особый PN25 | PN25 كوع نهاية الخط ذكر

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
3EB-200012	20 x 1/2”	19.5	30	14.5	60
3EB-250012	25 x 1/2”	24.5	33	16	50

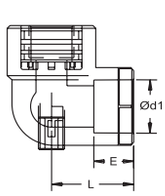
FEMALE BATTERY TRIPLE CONNECTION



Уголок для смесителя ВР Особый PN25 | PN25 كوع بنهية الخط انثى

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
3DB-200012	20 x 1/2”	19.5	30	14.5	75
3DB-250012	25 x 1/2”	24.5	33	16	60

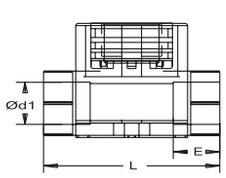
FEMALE BATTERY



Уголок для смесителя ВР PN25 | PN25 قاعده الخلاط للطهاره سن داخلي سم

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
2DB-250034	25 x 3/4”	24.5	40	16	60

FEMALE BATTERY BYPASS



Обходной уголок для смесителя PN25 | PN25 كوع نهاية الخط انثى مزدوج

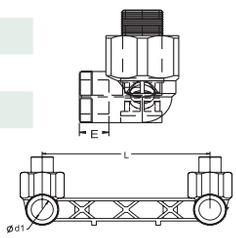
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
GBT-200012	20 x 1/2”	19.5	60	14.5	50

Available Colours

Планка для смесителя НР PN25 | PN25 قاعدة الخلاط بسن الخارجي

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
ECB-200012	20 x 1/2”	19.5	150	14.5	20
ECB-200034	20 x 3/4”	19.5	150	14.5	20
ECB-250012	25 x 1/2”	24.5	150	16	20
ECB-250034	25 x 3/4”	24.5	150	16	20

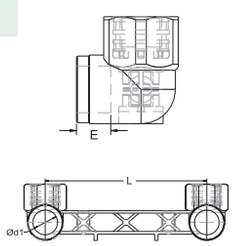
MALE DOUBLE BATTERY CONNECTION



Планка для смесителя ВР PN25 | PN25 قاعدة الخلاط بسن الداخلي

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
CBT-200012	20 x 1/2”	19.5	150	14.5	25
CBT-250012	25 x 1/2”	24.5	150	16	20

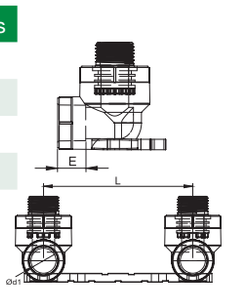
FEMALE DOUBLE BATTERY CONNECTION



Планка для смесителя НР Плоская PN25 | PN25 قاعدة الخلاط بسن خارجي

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
EBU-200012	20 x 1/2”	19.5	150	14.5	20
EBU-200034	20 x 3/4”	19.5	150	14.5	20
EBU-250012	25 x 1/2”	24.5	150	16	20
EBU-250034	25 x 3/4”	24.5	150	16	20

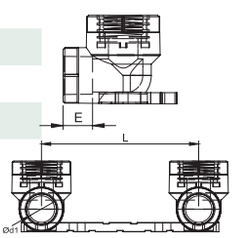
MALE DOUBLE BATTERY CONNECTION- SLAB



Планка для смесителя ВР Плоская PN25 | PN25 قاعدة الخلاط بسن الداخلي

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DBU-200012	20 x 1/2”	19.5	150	14.5	25
DBU-200034	20 x 3/4”	19.5	150	14.5	25
DBU-250012	25 x 1/2”	24.5	150	16	20
DBU-250034	25 x 3/4”	24.5	150	16	20

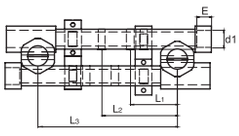
FEMALE DOUBLE BATTERY CONNECTION- SLAB



Комплект универсальный настенный PN25 | PN25 قاعدة خلاط متحرك

Code	Size/mm	Ø d1	L1	L2	L3	E	Min.Qty/pcs
ABT-200012	20 x 1/2”	19.5	105	135	150	14.5	15
ABT-250012	25 x 1/2”	24.5	105	135	150	16	15

ADJUSTABLE BATTERY

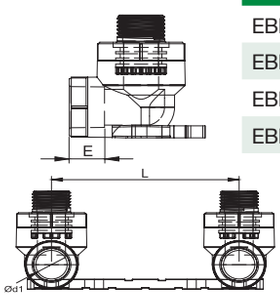


Available Colours

MALE BIDET BATTERY - DUAL

Планка для смесителя НР Особый двойной PN25

قاعدة الخلاط للطهارة بسن خارجي 10 سم PN25

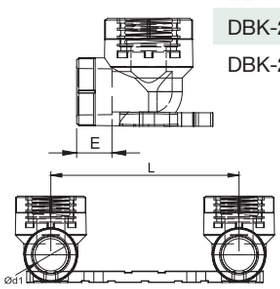


Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
EBK-200012	20 x 1/2”	19.5	100	14.5	30
EBK-200034	20 x 3/4”	19.5	100	14.5	30
EBK-250012	25 x 1/2”	24.5	100	16	25
EBK-250034	25 x 3/4”	24.5	100	16	25

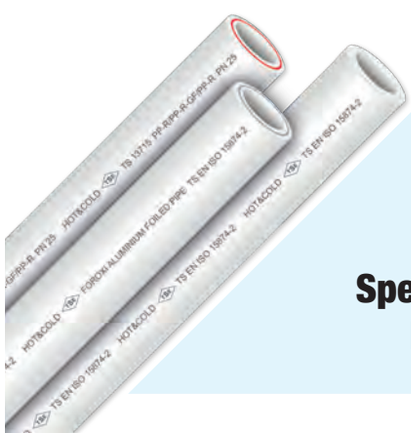
FEMALE BIDET BATTERY - DUAL

Планка для смесителя ВР Особый двойной PN25

قاعده الخلاط للطهاره سن داخلي 10 سم PN25



Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DBK-200012	20 x 1/2”	19.5	100	14.5	30
DBK-250012	25 x 1/2”	24.5	100	16	25
DBK-250034	25 x 3/4”	24.5	100	16	25



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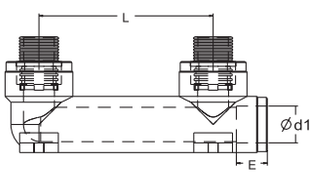
Specific Product Development

MALE BIDET BATTERY



Планка для смесителя НР Особый PN25

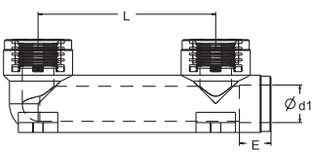
قاعده الخلاط للطهاره سن خارجي PN25

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
ETB-200012	20 x 1/2”	19.5	90	14.5	30
ETB-250012	25 x 1/2”	24.5	90	16	25

FEMALE BIDET BATTERY

Планка для смесителя ВР Особый PN25

قاعدة الخلاط للطهارة سن داخلي PN25



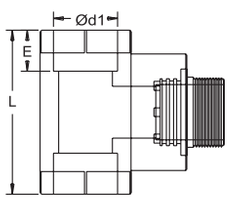
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DTB-200012	20 x 1/2”	19.5	90	14.5	35
DTB-250012	25 x 1/2”	24.5	90	16	25

Available Colours

Тройник комбинированный НР PN25 | PN25 تس بسن دكر

MALE TEE

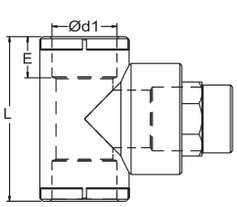
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
ETE-200012	20 x 1/2”	19.5	52	14.5	100
ETE-200034	20 x 3/4”	19.5	52	14.5	75
ETE-250012	25 x 1/2”	24.5	59	16	75
ETE-250034	25 x 3/4”	24.5	59	16	50
ETE-320012	32 x 1/2”	31.5	70	18	30
ETE-320034	32 x 3/4”	31.5	44	18	30
ETE-320100	32 x 1”	31.5	44	18	30
ETE-400012	40 x 1/2”	39.4	77	20.5	20
ETE-400034	40 x 3/4”	39.4	77	20.5	20
ETE-400100	40 x 1”	39.4	82	20.5	20
ETE-500012	50 x 1/2”	49.4	87	23.5	15
ETE-500034	50 x 3/4”	49.4	87	23.5	15
ETE-500100	50 x 1”	49.4	102	23.5	15
ETE-630012	63 x 1/2”	62.5	120	27.5	8
ETE-630034	63 x 3/4”	62.5	120	27.5	8
ETE-630100	63 x 1”	62.5	120	27.5	8



Тройник комбинированный НР под ключ PN25 | PN25 تي بسن انثى سداسي

MALE TEE HEXAGONAL

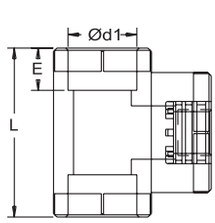
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
EAT-320100	32 x 1”	31.5	70	18	30
EAT-400114	40 x 1 1/4”	39.4	97.5	20.5	15



Тройник комбинированный ВР PN25 | PN25 تي بسن انثى

FEMALE TEE

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DTE-200012	20 x 1/2”	19.5	60	14.5	100
DTE-200034	20 x 3/4”	19.5	60	14.5	75
DTE-250012	25 x 1/2”	24.5	52	16	75
DTE-250034	25 x 3/4”	24.5	66	16	50
DTE-320012	32 x 1/2”	31.5	80	18	30
DTE-320034	32 x 3/4”	31.5	80	18	30
DTE-320100	32 x 1”	31.5	80	18	30
DTE-400012	40 x 1/2”	39.4	77	20.5	20
DTE-400034	40 x 3/4”	39.4	77	20.5	20
DTE-400100	40 x 1”	39.4	82	20.5	20
DTE-500012	50 x 1/2”	49.4	87	23.5	15
DTE-500034	50 x 3/4”	49.4	87	23.5	15
DTE-500100	50 x 1”	49.4	102	23.5	15
DTE-630012	63 x 1/2”	62.5	120	27.5	9
DTE-630034	63 x 3/4”	62.5	120	27.5	9
DTE-630100	63 x 1”	62.5	120	27.5	9

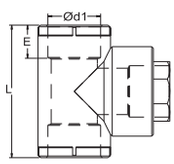


Available Colours

FEMALE TEE HEXAGONAL

Тройник комбинированный ВР под ключ PN25 | PN25 تي بسن انثى سداسي

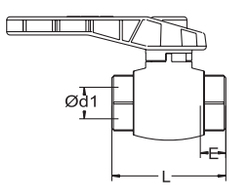
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DAT-320100	32 x 1”	31.5	80	18	30
DAT-400114	40 x 1 1/4”	39.4	97.5	20.5	20



BALL VALVE

Пластиковый шаровой кран PN25 | PN25 محبس كروي بلاستيك

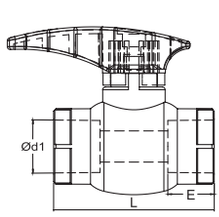
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
KSV-200012	20	19.5	66	14.5	50
KSV-250034	25	24.5	73	16	40
KSV-320100	32	31.5	88	18	20
KSV-400114	40	39.4	105	20.5	12
KSV-500112	50	49.4	125	23.5	8
KSV-630200	63	62.5	150	27.5	4
KSV-750212	75	74.2	165	31	4



BALL VALVE (ECONOMIC)

Пластиковый шаровой кран EKO PN25 | PN25 محبس كروي بلستيك اكنومي

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
KVE-200000	20	19.5	59	14.5	90
KVE-250000	25	24.5	64	16	60
KVE-320000	32	31.5	75	18	40



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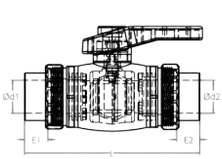
BALL VALVE WITH DOUBLE UNION

Шаровый кран с двойной раз. муфтой | محبس شد الوصل

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
COK-200000	20	19.5	120	14.5	30
COK-250000	25	24.5	124	16	20
COK-320000	32	31.5	140	18	15

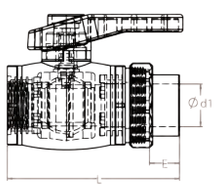


Available Colours

Шаровый кран ВР с раз. Муфтой PN25 | محبس شد الوصل نهاية الإنش

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DTV-200000	20 x 1/2”	19.5	91	14.5	30
DTV-250000	25 x 3/4”	24.5	95	16	25
DTV-320000	32 x 1”	31.5	109	18	20

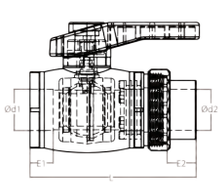
FEMALE BALL VALVE WITH SINGLE UNION



Шаровый кран с раз. Муфтой PN25 | محبس شد الوصل نهاية الإنش

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
TOK-200000	20	19.5	91	14.5	30
TOK-250000	25	24.5	95	16	25
TOK-320000	32	31.5	109	18	20

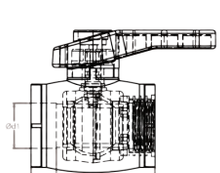
BALL VALVE WITH SINGLE UNION



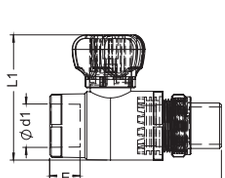
Пластиковый шаровой кран ВР PN25 | محبس كروي بلاستيك

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DKV-200012	20 x 1/2”	19.5	64	14.5	50
DKV-250034	25 x 3/4”	24.5	67	16	40
DKV-320100	32 x 1”	31.5	78	18	20

FEMALE BALL VALVE



RADIATOR VALVE STRAIGHT



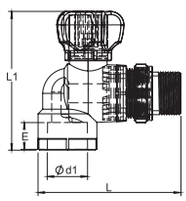
Шаровый радиаторный кран прямой PN25 | محبس بلستيك بسن الدكر

Code	Size/mm	Ø d1	L1	L	E	Min.Qty/pcs
KRN-200012	20 x 1/2”	19.5	67	89	14.5	50
KRN-250012	25 x 1/2”	24.5	67	89	16	50
KRN-250034	25 x 3/4”	24.5	72	94	16	40

Available Colours

RADIATOR VALVE ELBOW

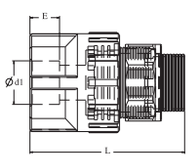
Шаровый радиаторный кран уголовой PN25 | PN25 محبس بلاستيك بسن الدكر



Code	Size/mm	Ø d1	L1	L	E	Min.Qty/pcs
KRD-200012	20 x 1/2”	19.5	83	87.5	14.5	50
KRD-250012	25 x 1/2”	24.5	83	87.5	16	50
KRD-250034	25 x 3/4”	24.5	90.5	91	16	40

RADIATOR ADAPTOR

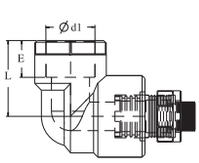
Муфта комбинированная разъемная для радиатора PN25 | PN25 وصلة التحويل



Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
ORN-200012	20 x 1/2”	19.5	55	14.5	60
ORN-200034	20 x 3/4”	19.5	57	14.5	50
ORN-250012	25 x 1/2”	24.5	57	16	60
ORN-250034	25 x 3/4”	24.5	57	16	50

RADIATOR ELBOW ADAPTOR

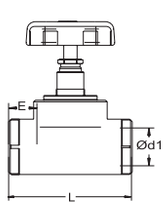
Угольник комбинированный разъемный для радиатора PN25 | PN25 كوع تحويل



Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
ORD-200012	20 x 1/2”	19.5	30	14.5	60
ORD-200034	20 x 3/4”	19.5	35	14.5	50
ORD-250012	25 x 1/2”	24.5	40	16	60
ORD-250034	25 x 3/4”	24.5	40	16	50

STOP VALVE

Проходной вентиль PN25 | PN25 محبس بلاستيك



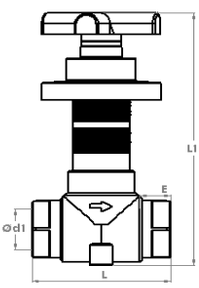
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
KBV-200012	20	19.5	73	14.5	40
KBV-250034	25	24.5	73	16	30
KBV-320100	32	31.5	86	18	20
KBV-400114	40	39.4	93	20.5	15

Available Colours

LUSTRATION VALVE

Вентиль PN25 | PN25 محبس طهارة

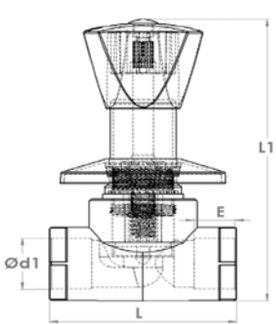
Code	Size/mm	Ø d1	L	L1	E	Min.Qty/pcs
LSV-200000	20	19,5	73	138	14,5	20
LSV-250000	25	24,5	78	138	16	20
LSV-320000	32	31,5	87	143	18	15



CHROME VALVE TRIANGLE HEAD

Вентиль с хромированной треугольной ручкой PN25 | PN25 محبس كروم مثلث

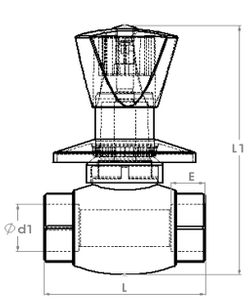
Code	Size/mm	Ø d1	L	L1	E	Min.Qty/pcs
KVZ-200012	20	19.5	73	120	14.5	25
KVZ-250034	25	24.5	73	130	16	20
KVZ-320100	32	31.5	86	140	18	15
KVZ-400114	40	39.4	93	146	20.5	10



CHROME BALL VALVE TRIANGLE HEAD

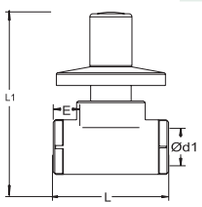
Шаровый кран с хромированной треугольной ручкой PN25 | PN25 محبس كروي مثلث

Code	Size/mm	Ø d1	L	L1	E	Min.Qty/pcs
KKV-200012	20	19.5	67	131	14.5	25
KKV-250034	25	24.5	74	139	16	20
KKV-320100	32	31.5	87	153	18	15



Available Colours

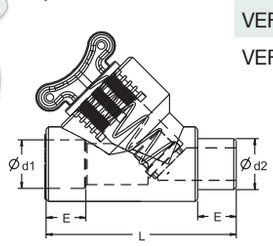
CHROME VALVE ENCASTRE



Вентиль хромированный со встроенной ручкой PN25 | PN25 صمام مخبي مخبس

Code	Size/mm	Ø d1	L	L1	E	Min.Qty/pcs
KAV-200012	20	19.5	73	93	14.5	30
KAV-250034	25	24.5	73	94	16	25
KAV-320100	32	31.5	86	105	18	25
KAV-400114	40	39.4	93	107	20.5	20

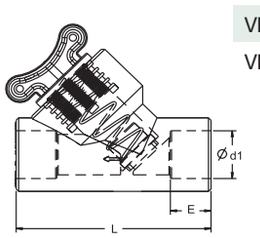
NON RETURN VALVE MALE



Обратный клапан НР PN25 | PN25 صمام مصفى

Code	Size/mm	Ø d1	Ø d2	L	E	Min.Qty/pcs
VEF-200012	20	19.5	20.3	67	14.5	75
VEF-250034	25	24.5	25.3	71	16	50
VEF-320100	32	31.5	32.3	100	18	25

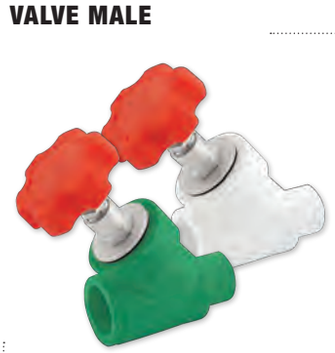
NON RETURN VALVE FEMALE

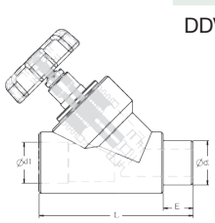


Обратный клапан ВР PN25 | PN25 صمام مصفى

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
VDF-200012	20	19.5	67	14.5	75
VDF-250034	25	24.5	71	16	50
VDF-320100	32	31.5	100	18	25

VALVE MALE





Проходной вентиль внутр./наруж. PN25 | PN25 صمام مصفى

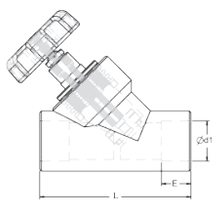
Code	Size/mm	Ø d1	Ø d2	L	E	Min.Qty/pcs
DDV-200012	20	19.5	20.3	78	14.5	30
DDV-250034	25	24.5	25.3	88	16	30
DDV-320100	32	31.5	32.3	106	18	15

Available Colours

VALVE FEMALE

Проходной вентиль внутр./внутр. PN25 | PN25 محبس نحويل

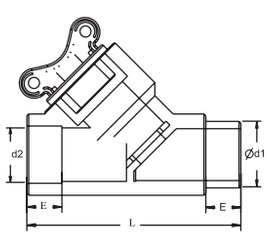
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
IDV-200012	20	19.5	78	14.5	30
IDV-250034	25	24.5	88	16	30
IDV-320100	32	31.5	106	18	15



MALE FILTER

Фильтр внутр./наруж. PN25 | PN25 صمام مصفى

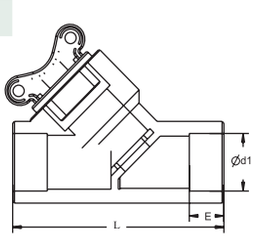
Code	Size/mm	Ø d1	Ø d2	L	E	Min.Qty/pcs
EFT-200012	20	20.3	19.5	78	14.5	75
EFT-250034	25	25.3	24.5	88	16	50
EFT-320100	32	32.3	31.5	106	18	25



FEMALE FILTER

Фильтр внутр./внутр. PN25 | PN25 صمام مائل مصفى

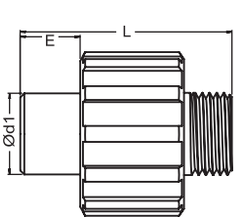
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DFT-200012	20	19.5	78	14.5	75
DFT-250034	25	24.5	88	16	50
DFT-320100	32	31.5	106	18	25



TAILED MALE NIPPLE

Муфта комбинированная НР для бойлера | محول دكر

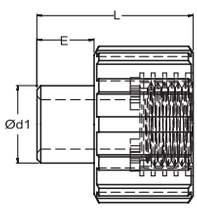
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
ENK-200012	20 x 1/2”	20.3	52	14.5	125
ENK-200034	20 x 3/4”	20.3	54	14.5	100
ENK-250012	25 x 1/2”	25.3	52	16	125
ENK-250034	25 x 3/4”	25.3	54	16	75



Available Colours

TAILED FEMALE NIPPLE

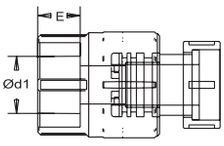
Муфта комбинированная ВР для бойлера | وصله بسن الإنثى



Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DNK-200012	20 x 1/2”	20.3	41	14.5	150
DNK-200034	20 x 3/4”	20.3	41	14.5	150
DNK-250012	25 x 1/2”	25.3	41	16	150
DNK-250034	25 x 3/4”	25.3	41	16	150

NIPPLE WITH NUT

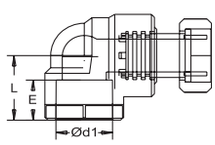
Муфта с накидной гайкой PN25 | PN25 وصل راس متحرك



Code	Size/mm	Ø d1	E	Min.Qty/pcs
HNP-200012	20 x 1/2”	19.5	14.5	175
HNP-200034	20 x 3/4”	19.5	14.5	125
HNP-250012	25 x 1/2”	24.5	16	125
HNP-250034	25 x 3/4”	24.5	16	125
HNP-250100	25 x 1”	24.5	16	80
HNP-320034	32 x 3/4”	31.5	18	75
HNP-320100	32 x 1”	31.5	18	60
HNP-320114	32 x 1” 1/4”	31.5	18	50

ELBOW WITH NUT

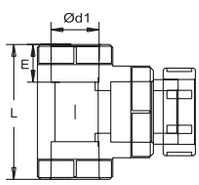
Угольник с накидной гайкой PN25 | PN25 كوع راس متحرك



Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
HDR-200012	20 x 1/2”	19.5	30	14.5	120
HDR-200034	20 x 3/4”	19.5	30	14.5	80
HDR-250034	25 x 3/4”	24.5	32	16	80
HDR-250100	25 x 1”	24.5	32	16	75
HDR-320034	32 x 3/4”	31.5	38	18	50
HDR-320100	32 x 1”	31.5	38	18	50
HDR-320114	32 x 1”1/4”	31.5	38	18	40

TEE WITH NUT

Тройник с накидной гайкой PN25 | PN25 تي وصل متحرك



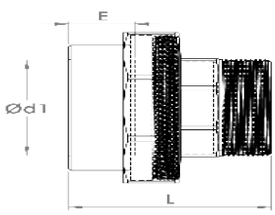
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
HTE-200012	20 x 1/2”	19.5	30	14.5	125
HTE-200034	20 x 3/4”	19.5	30	14.5	80
HTE-250034	25 x 3/4”	24.5	32	16	80
HTE-250100	25 x 1”	24.5	32	16	40
HTE-320100	32 x 1”	31.5	38	18	30
HTE-320114	32 x 1”1/4”	31.5	38	18	30

Available Colours

Муфта комбинированная разъемная HP PN25 | PN25 شد وصل دكر

TRANSITION UNION MALE

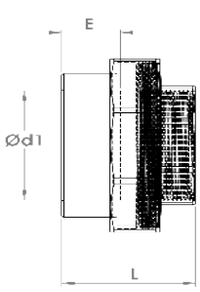
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
MOE-200012	20 x 1/2”	19.5	45	14.5	175
MOE-200034	20 x 3/4”	19.5	45	14.5	150
MOE-200100	20 x 1”	19.5	50	14.5	160
MOE-250012	25 x 1/2”	24.5	46	16	120
MOE-250034	25 x 3/4”	24.5	49	16	100
MOE-250100	25 x 1”	24.5	50	16	100
MOE-320012	32 x 1/2”	31.5	49	18	80
MOE-320034	32 x 3/4”	31.5	49	18	80
MOE-320100	32 x 1”	31.5	52	18	75
MOE-320114	32 x 1 1/4”	31.5	56	18	60
MOE-400114	40 x 1 1/4”	39.4	59	20.5	40
MOE-500112	50 x 1 1/2”	49.4	62	23.5	25
MOE-630200	63 x 2”	62.5	72	27.5	16
MOE-750212	75 x 2 1/2”	74.2	97	31	5
MOE-900300	90 x 3”	89.2	117	35.5	6
MOE-110400	110 x 4”	109	134	41.5	2



Муфта комбинированная разъемная BP PN25 | PN25 شد وصل انثى سداسي الشكل

TRANSITION UNION FEMALE

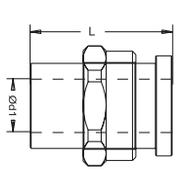
Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
MOD-200012	20 x 1/2”	19.5	38	14.5	200
MOD-200034	20 x 3/4”	19.5	38	14.5	175
MOD-200100	20 x 1”	19.5	39	14.5	175
MOD-250012	25 x 1/2”	24.5	37	16	125
MOD-250034	25 x 3/4”	24.5	38	16	125
MOD-250100	25 x 1”	24.5	40	16	100
MOD-320012	32 x 1/2”	31.5	42	18	90
MOD-320034	32 x 3/4”	31.5	42	18	80
MOD-320100	32 x 1”	31.5	42	18	80
MOD-320114	32 x 1 1/4”	31.5	46	18	70
MOD-400114	40 x 1 1/4”	39.4	48	20.5	50
MOD-500112	50 x 1 1/2”	49.4	48	23.5	25
MOD-630200	63 x 2”	62.5	58	27.5	16
MOD-750212	75 x 2 1/2”	74.2	72	31	8
MOD-900300	90 x 3”	89.2	78	35.5	6
MOD-110400	110 x 4”	109	89	41.5	2



Штуцер с накидной гайкой HP PN25 | PN25 شد وصل دكر

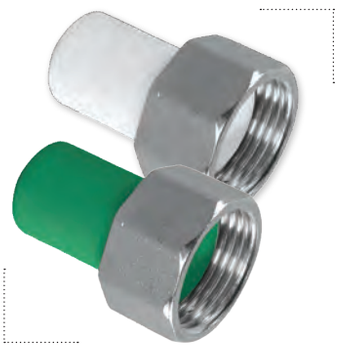
TRANSITION NIPPLE MALE

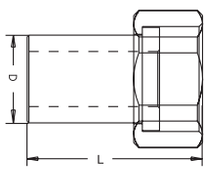
Code	Size/mm	Ø d1	L	Min.Qty/pcs
ONE-200034	20 x 3/4”	20.3	38	200
ONE-250100	25 x 1”	25.3	43	150



Available Colours

TRANSITION NIPPLE FEMALE



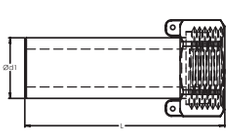


Штуцер с накидной гайкой BP PN25 | PN25 شد وصل انثى

Code	Size/mm	Ø d1	L	Min.Qty/pcs
OND-200034	20 x 3/4”	20.3	38	200
OND-250100	25 x 1”	25.3	43	150

call for
Specific Product Development

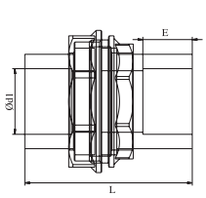
WATER METER NIPPLE



Муфта для водоизмерителя PN25 | PN25 شد وصل انثى

Code	Size/mm	Ø d1	L1	Min.Qty/pcs
SSB-200034	20 x 3/4”	20.3	68	175
SSB-250100	25 x 1	25.3	68	150

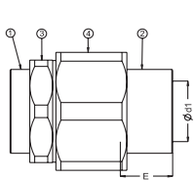
TRANSITION UNION TWO-SIDE WELDED



Муфта соединительная для сварки PN25 | PN25 وصل لحام الطرفين

Code	Size/mm	Ø d1	E	L	Min.Qty/pcs
MCR-200000	20	19.5	14.5	56	100
MCR-250000	25	24.5	16	59	75
MCR-320000	32	31.5	18	60	50
MCR-400000	40	39.4	20.5	59	30
MCR-500000	50	49.4	23.5	59	25
MCR-630000	63	62.5	27.5	72	14

UNION



Муфта разъемная пластиковая под ключь | PN25 وصل لحام الطرفين

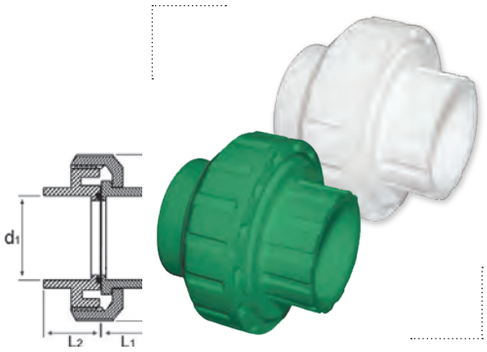
Code	Size/mm	Ø d1	E	Min.Qty/pcs
CKR-200000	20	19.5	14.5	100
CKR-250000	25	24.5	16	60
CKR-320000	32	31.5	18	50

Available Colours

UNION

Муфта разъемная пластиковая PN16 | PN16 وصل لحام الطرفين

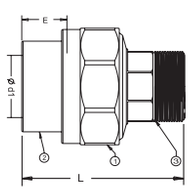
Code	Size/mm	Ø d1	L1	L2	D1	Min.Qty/pcs
PKR-200000	20	19	21.5	24.3	41.6	200
PKR-250000	25	24.1	27.6	25.7	52	125
PKR-320000	32	31	25.2	30.1	58.9	100
PKR-400000	40	39.4	29	39	82	50
PKR-500000	50	49.4	34	45	92	30
PKR-630000	63	62.5	41	55	112	16
PKR-750000	75	74.9	47	53	130	10
PKR-900000	90	89.9	56	61	181	6
PKR-110000	110	110	65	71	210	3



PLASTIC TRANSITION UNION MALE

Пластиковая Разъемная муфта HP PN25 | PN25 محول ذكر بلاستيك

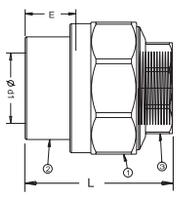
Code	Size/mm	Ø d1	E	L	Min.Qty/pcs
POE-200012	20 x 1/2”	19.5	14.5	60	100
POE-250034	25 x 3/4”	24.5	16	65	70
POE-320100	32 x 1”	31.5	18	67	50



PLASTIC TRANSITION UNION FEMALE

Пластиковая Разъемная муфта BP PN25 | PN25 محول انثى بلاستيك

Code	Size/mm	Ø d1	E	L	Min.Qty/pcs
POD-200012	20 x 1/2”	19.5	14.5	50	100
POD-250034	25 x 3/4”	24.5	16	55	80
POD-320100	32 x 1”	31.5	18	57	60



BOILER SET

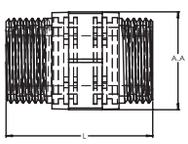
Комплект для бойлеров с комб. муфтой PN25 | PN25 مجموعة خزان الماء

Code	Box Contents	Min.Qty/pcs
KHN-080000	With Screwed Nipple (8 Pcs)	12
KHN-100000	With Screwed Nipple (10 Pcs)	12
KHD-080000	With Screwed Elbow (8 Pcs)	12
KHD-100000	With Screwed Elbow (10 Pcs)	12
KEN-080000	With Mail Nipple (8 Pcs)	12
KEN-100000	With Mail Nipple (10 Pcs)	12
KED-080000	With Mail Elbow (8 Pcs)	12
KED-100000	With Mail Elbow (10 Pcs)	12

Available Colours

NATURAL GAS GROUNDING NIPPLE

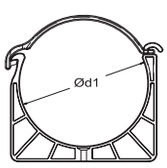
Муфта прямая диэлектрическая ш/ш ГАЗ | وصلة نحاس بسن خارجي



Code	Size/mm	L1	A.A	Min.Qty/pcs
DTN-000012	1/2”	43	24	300
DTN-000034	3/4”	43	28	250

PP-R WASTE WATER CLAMP

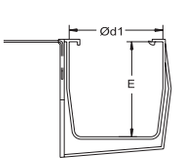
Крепление для сливных труб | مربط بلاستيك



Code	Size/mm	Ø d1	Min.Qty/pcs
ATK-050000	50	50	250
ATK-063000	63	63	150
ATK-075000	75	75	100
ATK-110000	110	110	130
ATK-125000	125	125	100
ATK-160000	160	160	75
ATK-200000	200	200	40

PP-R RAIN GUTTER CLAMP

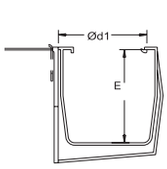
Крепление для четырехугольных желоб | مربط بلاستيك



Code	Size/mm	Ø d1	E	Min.Qty/pcs
PDK-150000	150	150	150	75

PP-R RAIN GUTTER CLAMP WITH METALIC SUPPORT

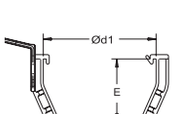
Крепление для четырехугольных желоб с металлическим держателем | مربط بلاستيك



Code	Size/mm	Ø d1	E	Min.Qty/pcs
MDK-150000	150	150	150	75

PP-R SPECIAL RAIN GUTTER CLAMP

Крепление для шестиугольных желоб | مربط بلاستيك



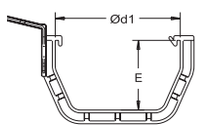
Code	Size/mm	Ø d1	E	Min.Qty/pcs
PDK-125000	125	125	75	100

Available Colours

PP-R SPECIAL RAIN GUTTER CLAMP WITH METALIC SUPPORT

Крепление для шестиугольных желоб с металлическим держателем | مربط بلاستيك

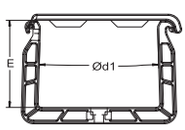
Code	Size/mm	Ø d1	E	Min.Qty/pcs
MDK-125000	125	125	75	100



PP-R SPECIAL WASTE WATER CLAMP

Крепление для квадратных сливных труб | مربط بلاستيك

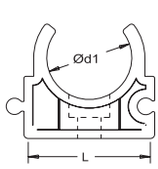
Code	Size/mm	Ø d1	E	Min.Qty/pcs
PIK-100000	100	100	75	100



SINGLE CLAMP

Опора | حامل الانبوب

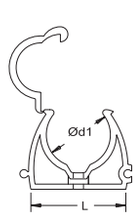
Code	Size/mm	Ø d1	L	Min.Qty/pcs
TKP-200000	20	20	32	3000
TKP-220000	22 Foiled Pipe	22	36	2500
TKP-250000	25	25	39	2750
TKP-270000	27 Foiled Pipe	27	41	2500
TKP-320000	32	32	46	1800
TKP-340000	34 Foiled Pipe	34	48	1500
TKP-400000	40	40	54	1400



CLAMP WITH COVER

Опора с креплением | حامل الانبوب المغلق الثناية

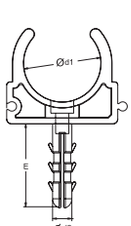
Code	Size/mm	Ø d1	L	Min.Qty/pcs
KPK-160000	16	16	28	2500
KPK-200000	20	20	32	2000
KPK-220000	22 Foiled Pipe	22	34	2000
KPK-250000	25	25	37	2000
KPK-270000	27 Foiled Pipe	27	39	1500
KPK-320000	32	32	44	1000
KPK-400000	40	40	52	750
KPK-500000	50	50	62	500

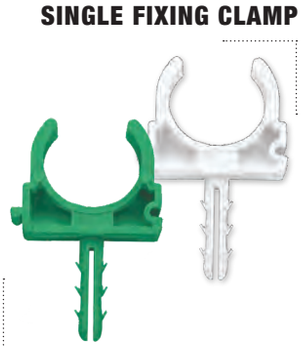


SINGLE FIXING CLAMP

Крепление с фиксатором | حاملة الانبوب

Code	Size/mm	Ø d1	Ø d2	E	Min.Qty/pcs
DTK-200000	20	20	8	28	2000
DTK-250000	25	25	8	28	1500
DTK-320000	32	32	8	28	1000



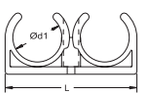


Available Colours

DOUBLE CLAMP

Опора двойная | اداة تثبيت الانابيب بالارض

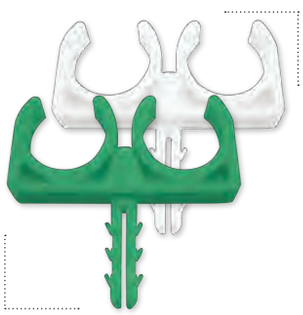
Code	Size/mm	Ø d1	L	Min.Qty.pcs
CKP-202200	20-22	20-22	60	1800
CKP-252700	25-27	25-27	65	1400
CKP-323400	32-34	32-34	72	750

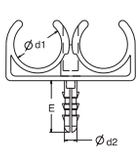


DOUBLE FIXING CLAMP

Крепление с фиксатором двойное | حاملة الانبوب الثنائية

Code	Size/mm	Ø d1	Ø d2	E	Min.Qty.pcs
CDK-200000	20	20	8	28	2000
CDK-250000	25	25	8	28	1200
CDK-320000	32	32	8	28	750

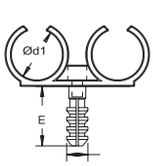




DOUBLE CROSHET WITH PLUG

Опора двойная с креплением | اداة تثبيت الانابيب بالارض

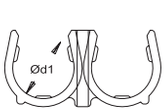
Code	Size/mm	Ø d1	Ø d2	Ø d2	Min.Qty.pcs
DCK-250000	25	25	8	28	1000



DOUBLE CROSHET

Опора двойная | اداة تثبيت الانابيب بالارض

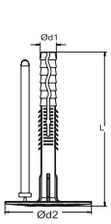
Code	Size/mm	Ø d1	Min.Qty.pcs
CTK-250000	25	22	2500



ISOLATION PLUG

Изоляционная заглушка | سدة ومسمار من البلاستيك

Code	Size/mm	Ø d1	Ø d2	L	Min.Qty.pcs
STD-100000	10	10	55	100	600

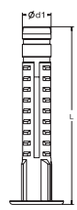


Available Colours

FIXING

Пластиковый дюбель | سدة من البلاستيك

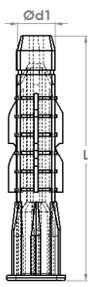
Code	Size/mm	Ø d1	L	Min.Qty.pcs
PDB-060000	M6	6	30	30000
PDB-080000	M8	8	45	10000
PDB-100000	M10	10	60	5000



FIXING

Пластиковый дюбель | سدة من البلاستيك

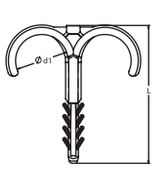
Code	Size/mm	Ø d1	L	Min.Qty.pcs
RDB-080000	M8	8	51	10000
RDB-100000	M10	10	61	6000



DOUBLE PIPE FIXTURE

Крепление для фиксации труб двойное | مثبة حابس الانابيب

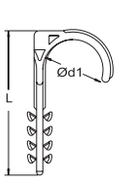
Code	Size/mm	Ø d1	L	Min.Qty.pcs
YTC-250000	25	22	58	5000



SINGLE PIPE FIXTURE

Крепление для фиксации труб | اداة تثبيت الإنبوب

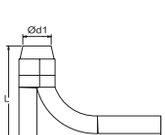
Code	Size/mm	Ø d1	L	Min.Qty.pcs
TYT-250000	25	22	56	8000



CORNER CONDUIT

Угловая подводка | تقويم الجانب

Code	Ø d1	L	Min.Qty.pcs
KDZ-180000	18	90	200

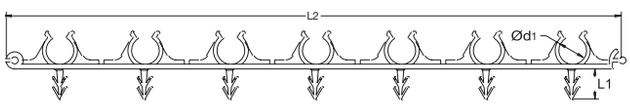


Available Colours

PIPE HOLDER WITH CLIPS

Крепление | حابس الأنابيب

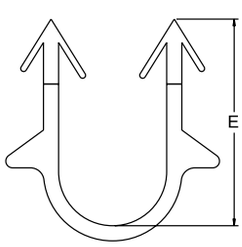
Code	Ø d1	L1	L2	Min.Qty.pcs
KPL-160000	16	17.5	360	350



PIPE BRACKET

Крепитель для труб | ماسكة الأنبوب

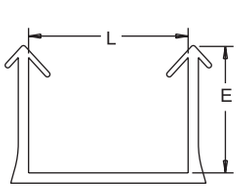
Code	Size/mm	E	Min.Qty.pcs
BRT-200000	20	37	8000



HOLDER BRACKED

Крепитель для профиля | قوس حامل

Code	Size/mm	L	E	Min.Qty.pcs
LMT-240000	24	24	24	8000



TRANSITION FOR GAS PIPES

Переходник для газовой трубы (межстенна) | الانتقال لأنابيب الغاز

Code	Size/mm	Min.Qty.pcs
BGS-000034	25 x 3/4”	175
BGS-000100	32 x 1”	140

TRANSITION FOR PEX PIPES

Переходник для трубы Пех | تحويلة للأنابيب بكس

Code	Color	Min.Qty.pcs
BGP-160000	White	120
BGP-160000	Crome	120

END CUP FOR PEX PIPES

Заглушка для труб PEX | كأس لتوصيل الأنابيب

Code	Min.Qty.pcs
BTP-161700	5000

VENTILATION GRILLS

Вентиляционная крышка | مشاوي التهوية

Code	Min.Qty.pcs
DMZ-000000	100

KADA

Манжета эксцентрическая | أوقييت مقعد

Code	Size/mm	Min.Qty.pcs
EKK-110000	110	100

JOINT GASKED

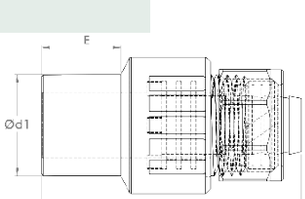
Сальник для PVC-U | جوان

Code	Size/mm	Min.Qty.pcs
ADC-050000	50	500

PEX TAIL ADAPTER

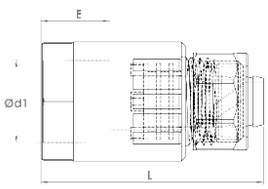
Муфта комбинированная наружн. для трубы PEX | تحويل

Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
PNK-201216	20x 1/2 x16	20.3	61	14.5	140



PEX FEMALE ADAPTER

Муфта комбинированная внутр. для трубы PEX | نحويل



Code	Size/mm	Ø d1	L	E	Min.Qty/pcs
DPN-201216	20x 1/2 x16	19.5	61	14.5	140

PE-RT PIPE

Труба PE-RT | انبوب بارت

Code	Size/mm	Min.Qty.pcs
PRT-160000	16 x 2 mm	160

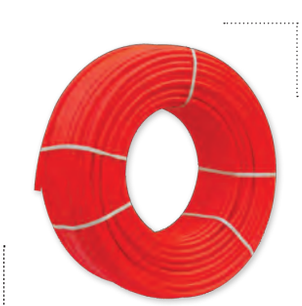
PE-RT PIPE IN COVER

Труба PE-RT в защитном кожухе | انبوب بارت مغلف

Code	Size/mm	Min.Qty.pcs
PRK-160000 Red	16 x 2 mm	100
PRK-160000 Blue	16 x 2 mm	100

PE-RT PIPE WITH OXYGEN BARRIER

Труба PE-RT с кислородным барьером | انبوب بارت بالاوكسجان



Code	Size/mm	Min.Qty.pcs
PRB-160000	16 x 2 mm	160

PE-RT PIPE WITH OXYGEN BARRIER IN COVER

Труба PE-RT с кислородным барьером в защитном кожухе | انبوب بارت مغلف بالاوكسجان

Code	Size/mm	Min.Qty.pcs
PBK-160000 Red	16 x 2 mm	100
PBK-160000 Blue	16 x 2 mm	100

METAL PLUG

Металлический штепсель | مسمار معدني

Code	Size/mm	Min.Qty.pcs
CKD-080000	M8	100
CKD-100000	M10	100
CKD-120000	M12	100

SPECIAL METAL PLUG

Металлический штепсель Особый | مسمار معدني

Code	Size/mm	Min.Qty.pcs
CMD-080000	M6	100
CMD-100000	M10	100
CMD-120000	M12	100

METAL PLUG STRAIGHT

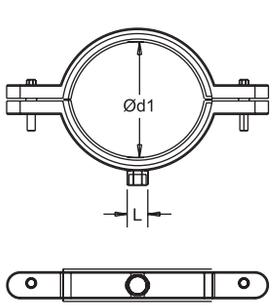
Металлический штепсель прямой | تحويلة للأنابيب بكس

Code	Size/mm	Min.Qty.pcs
GMD-060000	M6	100
GMD-080000	M8	100
GMD-100000	M10	100
GMD-120000	M12	100

METAL CLAMP + TRIPHON

Металлические хомуты с гайкой для труб | مسكة من الكروم بدون انبوب

Code	Size/mm	ROD	Ø d1	Min.Qty.pcs
STK-000038	3/8”	8 Rod	3/8	275
STK-000012	1/2”	8 Rod	1/2	200
STK-000034	3/4”	8 Rod	3/4	200
STK-000100	1”	8 Rod	1	150
STK-000114	1 1/4”	8 Rod	1 1/4	125
STK-000112	1 1/2”	8 Rod	1 1/2	100
STK-000200	2”	8 Rod	2	75
STK-000212	2 1/2”	10 Rod	2 1/2	60
STK-000300	3”	10 Rod	3	60
STK-000312	3 1/2”	10 Rod	3 1/2	60
STK-000400	4”	10 Rod	4	60
STK-000412	4 1/2”	10 Rod	4 1/2	50
STK-000500	5”	10 Rod	5	40
STK-000512	5 1/2”	10 Rod	5 1/2	50
STK-000600	6”	10 Rod	6	50
STK-000800	8”	12 Rod	8	35
STK-001000	10”	12 Rod	10	10



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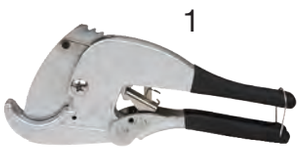
TOOLS

PIPE CUTTER

Ножницы для труб GM 0012-42 | مقص الانبوب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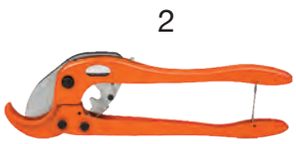
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Code	
DBM-001242	GM 0012-42
DBM-002863	GM 0028-63
DBM-002775	GM 0027-75

WELDING KIT

Комплект сварочного аппарата | مكينة لحم الانابيب

1

2

3

Code	
KMS-000500	GM 0005
KMS-0008A0	GM 0008
KMS-002100	GM 0021 without welding tools and cutter

WELDING KIT mini

Комплект сварочного аппарата | مكينة لحم الانابيب

Code	
FR-00KG-MKM-000900	GM MINI 0009

SINGLE WELDING MACHINE

Сварочный аппарат | مكينة لحم الانابيب

1

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3

Code	
LKM-0009A0	GM 00009A
SKM-000900	GM 0009
PKM-0009B0	GM 0009B

TEST PRESSURE PUMP

Насос для измерения давления 0-60 атм | مضخة تجربة التست

Code	
TSP-003000	GM 0030

WELDING TOOL

Насадка на сварочный инструмент | اداة مكينة الحام

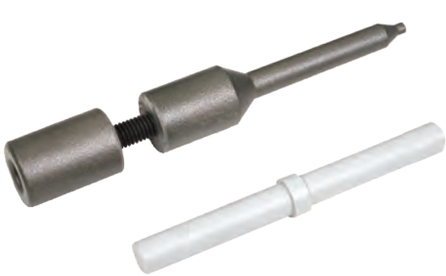
Code	Size/mm
BKP-200000	20
BKP-250000	25
BKP-320000	32
BKP-400000	40
BKP-500000	50
BKP-630000	63
BKP-750000	75
BKP-900000	90
BKP-110000	110
BKP-125000	125

WELDING TOOL FOR SADDLES

Насадка для вварного седла | اداة مكينة اللحام

Code	Size/mm
BKP-632000	63/20
BKP-632500	63/25
BKP-633200	63/32
BKP-752000	75/20
BKP-752500	75/25
BKP-753200	75/32
BKP-902000	90/20
BKP-902500	90/25
BKP-903200	90/32
BKP-110200	110/20
BKP-110250	110/25
BKP-110320	110/32

REPAIR TOOL



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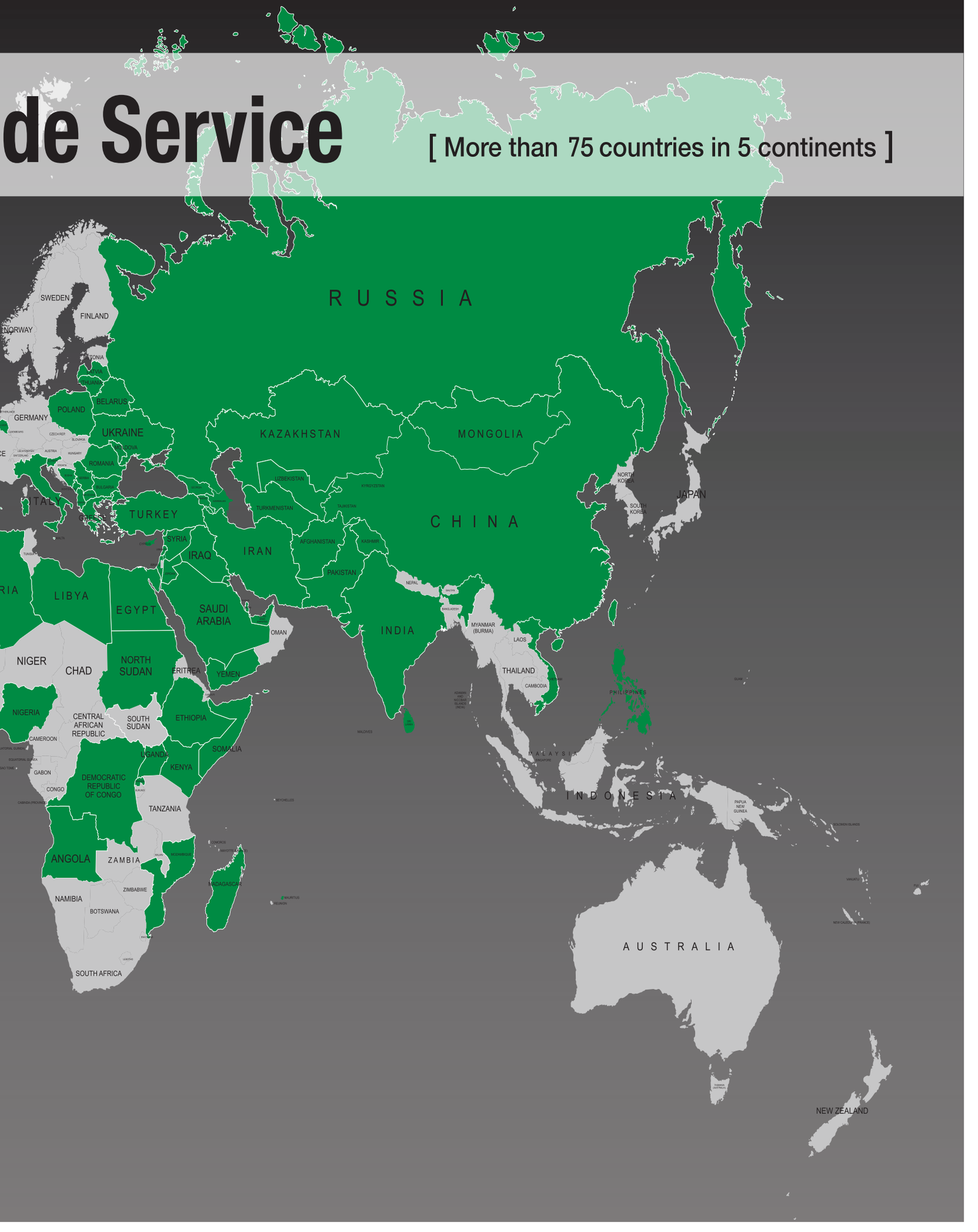

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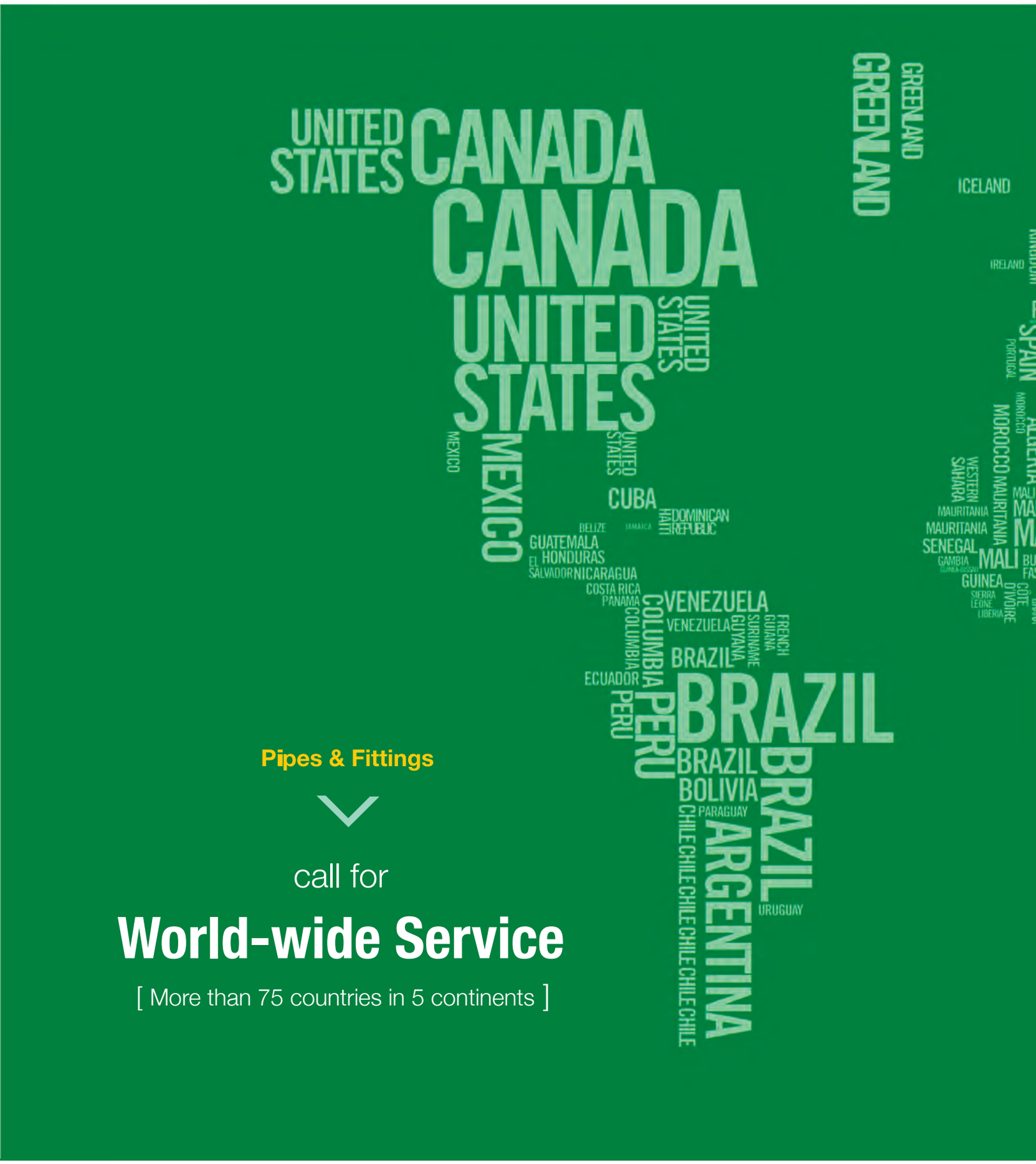

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