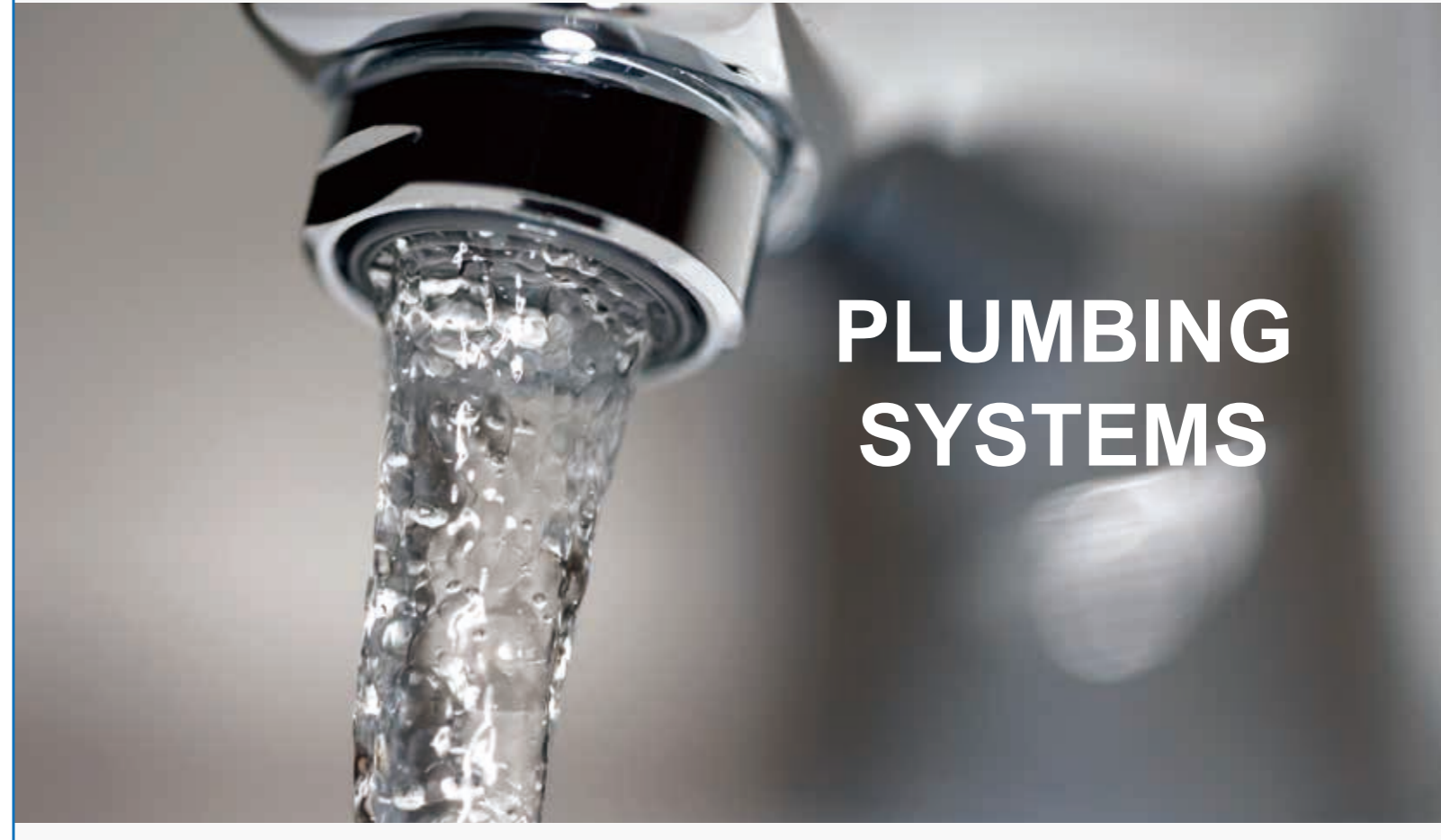


JUNXING



**PLUMBING
SYSTEMS**

Tianjin Junxing Pipe Group Co., Ltd.

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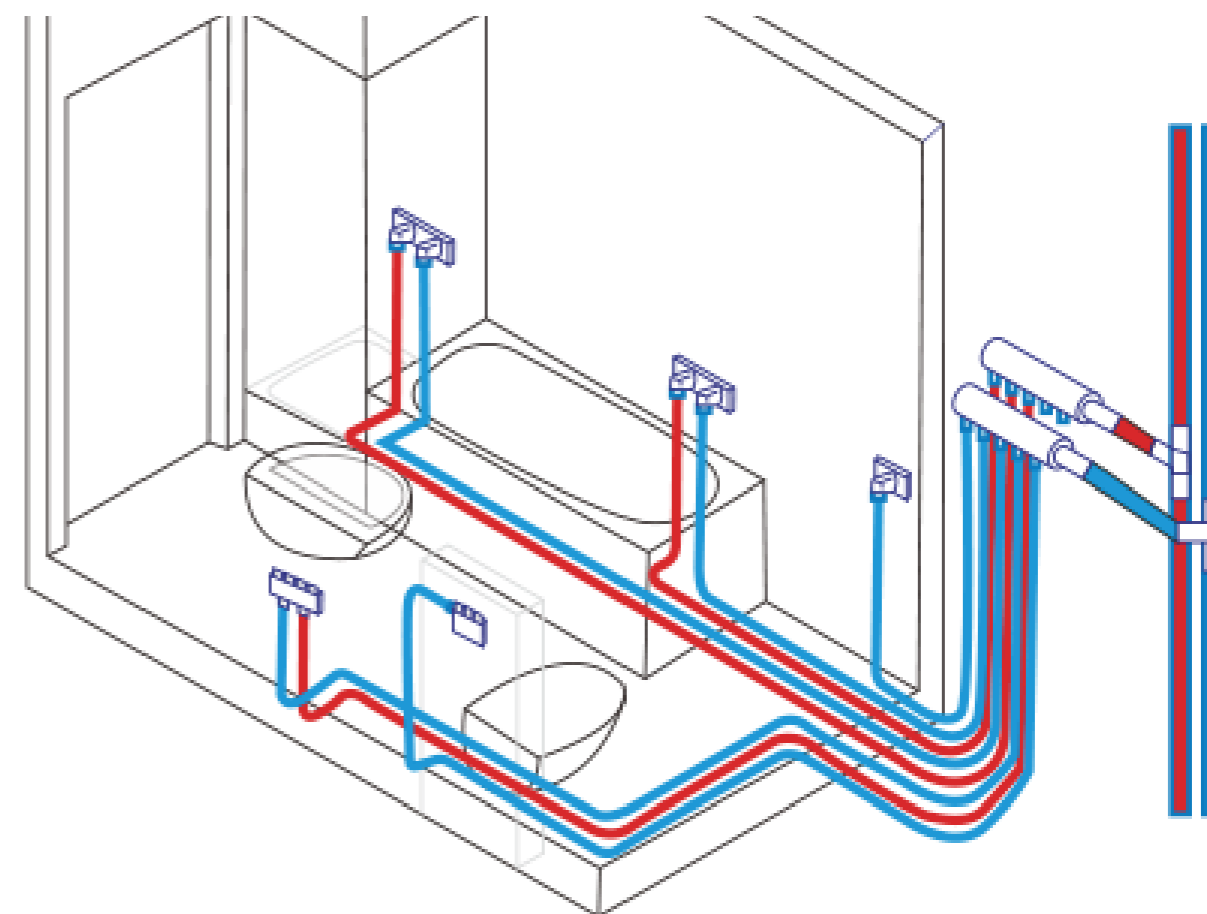
Website: www.pipexpert.com

Junxing pipe for better life!

www.pipexpert.com

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INTRODUCTION OF JUNXING

JUNXING PIPE GROUP CO., LTD.

Junxing Pipe Group Co., Ltd is a complex high technology enterprise which integrates research and development of new products, manufacture of pipes and fittings, municipal and mechanical equipments, installation of petrochemical pipes and fountain lighting, import and export trade and marketing. Junxing is vice president of China Plastics Processing Industry Association, president of Shandong chamber of commerce in Tian Jin, vice president of Tianjin building materials association and plastic industry association. Junxing is one of the most famous pipe manufacturing enterprises in China; it plays a leading role in pipe industry in Tian Jin.

In 2009, Junxing was recognized as Famous Brand of China by State Administration for Industry and Commerce. In 2010, it came into being top 20 brands in plastic pipe industry.



Further more, Junxing obtains many honors, National Inspection-exemption Products, famous brand in Tian Jin, new and high-tech enterprise in Tianjin, top 10 brands of floor heating pipes in China.

Junxing Pipe Group is located in Fu Yuan Economic Development Area in Wu Qing District, its registered capital is 3200million, processes production plant 76thousand square meters, over 200 sets of equipments for production, inspection and experiment. We produce more than 20 series of pipes and fittings made of PP-R, PB, PE, PE-RT, PE-X, HDPE, RDPAP, which are applied in water supply and drainage, heat supply and transportation of gas. Our company based on domestic market, and develop broad sales network all over the world.

Valuable Supplier



CERTIFICATION



ENTERPRISE CULTURE:

Company aims:

Honesty and trustworthiness, good quality and customer satisfaction.

Management philosophy:

Innovation of management, technology and products.

Strategic objectives:

Constant pursuits, innovative development.



Rich products range & Flexibility

Junxing has powerful manufacture capacity, owns advanced manufacturing equipments and techniques, automatic production control system, and excellent test methods and equipments, all these make it possible to provide high-quality pipes and fittings.



PEX PIPE >>>

JUNXING PEX is a crosslinked polyethylene product. Crosslinked polyethylene (PEX) pipe provides excellent chemical and corrosion resistance. Making it ideally suited for harsh water conditions or aggressive installation environment.

JUNXING PEX pipe includes PEXa pipe and PEXb pipe.

Applications:

- Cold and hot water system
- Air conditioning system
- Central heating system
- Floor radiant heating system and snow melting system



Physical Performance

Item	Requirements	Test parameter				
		Hydrostatic tension		Test temperature	time	
Hydrostatic resistance	No leakage, no crack	12.0		2.	1	
		4.8		95	1	
		4.7		95	22	
		4.6		95	165	
		4.4		95	1000	
Thermal stability	No leakage, no crack	2.5		110	8760	
Longitudinal retraction rate	≤3%	parameter			120°C	
		Temperature				
		Time				
		en≤8mm		1h		
		8mm<en≤16mm		2h		
en>16mm		4h				
Test quantity		3				
5000 times thermal cycle	No leakage, no crack	Temperature of cold water	Temperature of hot water	System pressure	Time/cycle of cold water	Time/cycle of hot water
		20°C	90°C	0.6Mpa	15min	15min

Degree of crosslink PE-Xa≥70% PE-Xb≥65%

Features:

- Higher chemical corrosion resistance and environmental stress cracking.
- In conformity with potable water hygienic standard, the pipe contains non-toxic components, not being rotten and breeding bacteria.
- Having smoothness both inner and outer walls, the pipe have featured its smallest flow resistance and low noise.
- Broad temperature scope, long usage life up to 50 years.
- Hardness and elasticity, higher inner pressure strength.
- With low surface tension, it can effectively prevent scale.
- Good bending property, easy to adjust while installation.
- Light weight, convenient for installation and transportation.



Specification:

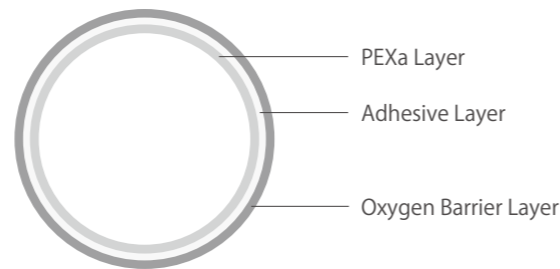
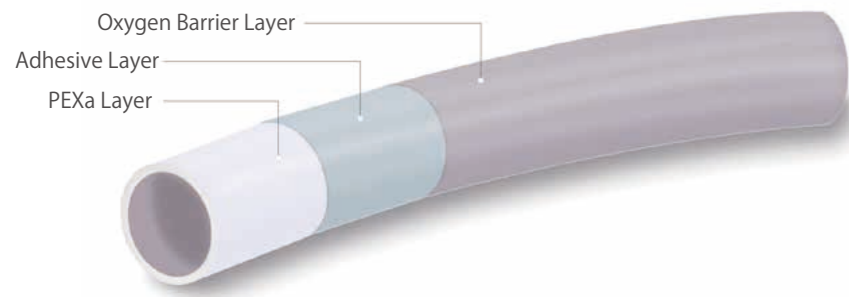
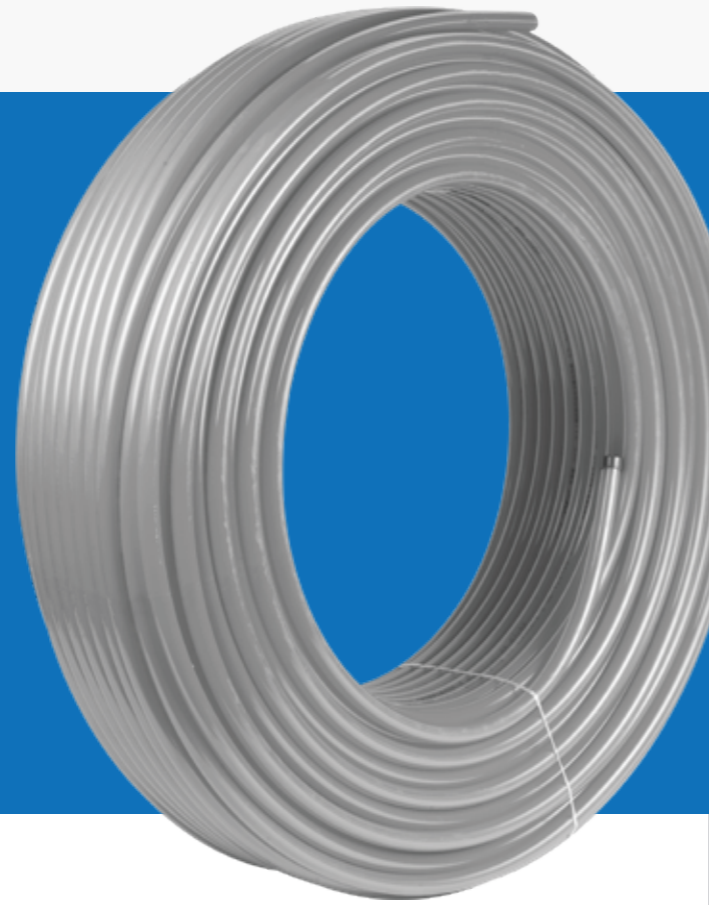
- Standard: ISO15875
- Color: Natural white
- Length: 50m to 500m/roll or as per requested

Dn (mm)	Wall Thickness (mm)		
	S5	S4	S3.2
16	1.8	2.0	2.2
20	1.9/2.0	2.3	2.8
25	2.3	2.8	3.5
32	2.9	3.6	4.4

PEXa/EVOH PIPE >>>

Applications:

- LG chem XL 1800 raw material
- Excellent thermal stability and heat-resistance quality
- Excellent hydraulic pressure resistant performance
- Excellent flexibility
- Convenient for connection
- Good performance for heat dissipation and thermal conductivity



Technical Specification

- Standard: ISO15875, DIN4726
- Color: Grey, orange etc
- Specification: 50m to 500m/roll or as per requested

Diameter	Thickness mm		
	S5	S4	S3.2
16	1.8	2.0	2.2
20	2.0	2.3	2.8
25	2.3	2.8	3.5
32	2.9	3.6	4.4



UNLIMITED POLYMER SOLUTIONS

For developers, installers, architects and consultants JUNXING is the reliable partner when it comes to plumbing systems.



PERT PIPE >>>

Polyethylene of Raised Temperature Resistance or PE-RT expands the traditional properties of polyethylene. Enhanced strength at high temperatures are thus made possible through special molecular design and manufacturing process control.

Its resistance to low or high temperatures makes PE-RT ideal for a broad range of hot and cold water pipe applications



Features:

- Good thermal stability and long-term pressure resistance.
- In conformity with potable water hygienic standard.
- Strong impact resistance.
- Good flexibility.
- Easy to be connected (hot-melt connection or mechanical connection).
- Good thermal conductivity.
- Good processing property.
- Can be recycled, good to the environment.



Applications:

- Heating system pipelines for floor, wall, roof and street.
- Industrial and residential water system, water supply system of geothermal water.
- Pipeline system of pure water, mineral water, drinking water and sanitary water.
- Central air-condition pipeline system.



Choice of S

Design pressure	Pipe Series S				
	20°C 50years $\sigma_s = 7.36\text{MPa}$	S1 $\sigma_s = 3.06\text{MPa}$	S2 $\sigma_s = 2.15\text{MPa}$	S4 $\sigma_s = 3.34\text{MPa}$	S5 $\sigma_s = 2.02\text{MPa}$
0.4	6.3	6.3	5	6.3	5
0.6	6.3	5	3.2	5	3.2
0.8	6.3	3.2	2.5	4	2.5
1.0	6.3	2.5	--	3.2	--

Specification:

- Standard: ISO22391
- Color: Natural white, red, orange or as per requested
- Length: 50m to 500m/roll or as per requested

Dn (mm)	Wall Thickness (mm)		
	S5	S4	S3.2
16	1.8	2.0	2.2
20	1.9/2.0	2.3	2.8
25	2.3	2.8	3.5
32	2.9	3.6	4.4

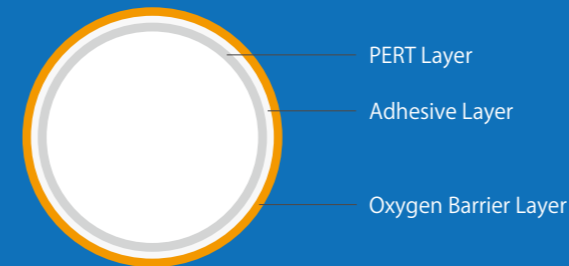
Comfortable and energy efficient radiant heating systems

- Fully compliant with tomorrow's sustainability
- Convenient and reliable solution
- Tailoring for any architectural requirement
- Excellent long-term performance
- Efficient energy consumption



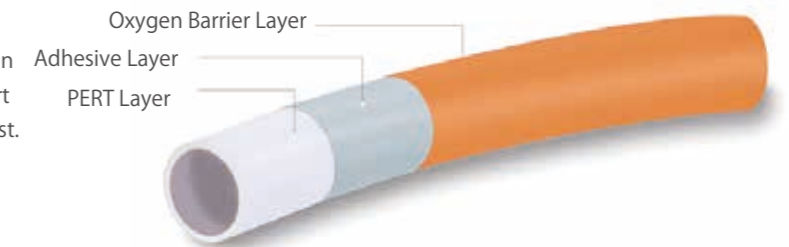
PERT/EVOH PIPE >>>

PERT/EVOH pipe is produced through composition of plastic pipe and EVOH of polymer. This kind of pipes can effectively prevent oxygen from entering piping system, protecting metal parts in system for rapid corrosion, suppressing bacterium and algae virology growth in the pipe and ensuring water quality freshly and cleanly.



Junxing delivers water based underfloor heating, wall heating, ceiling heating as well as cooling systems.

Due to the low operating temperatures used in radiant heating systems, it is the most energy-efficient way to distribute heat within buildings. At the same time, radiant heating offers the best comfort to occupants and can even be used for cooling at no additional cost. The entire installation is invisible, which gives you freedom for any kind of architectural style.



Specification:

- Standard: ISO22391, DIN4716
- Color: red, orange or as per requested
- Length: 50 to 500 meters/roll or as per requested

Dimension:

Dn (mm)	Wall Thickness (mm)		
	S5	S4	S3.2
16	1.8	2.0	2.2
20	1.9/2.0	2.3	2.8
25	2.3	2.8	3.5
32	2.9	3.6	4.4



MULTILAYER PIPE >>>

Junxing PE(X)-AL-PE(X) pipe is five-layer composite pipe that combines the advantages of metal and plastic pipe and eliminates the disadvantages of both materials at the same time. The aluminum core is absolutely diffusion tight; it reliably prevents oxygen/gases from permeating into pipe. It compensates and reduces snap-back forces and heat expansion with changes of temperature. Junxing multilayer composite pipe consists of an butt welded aluminum core with an inner and outer layer or high temperature-resistant polyethylene. All layers are permanently bonded together by intermediate adhesive layers.

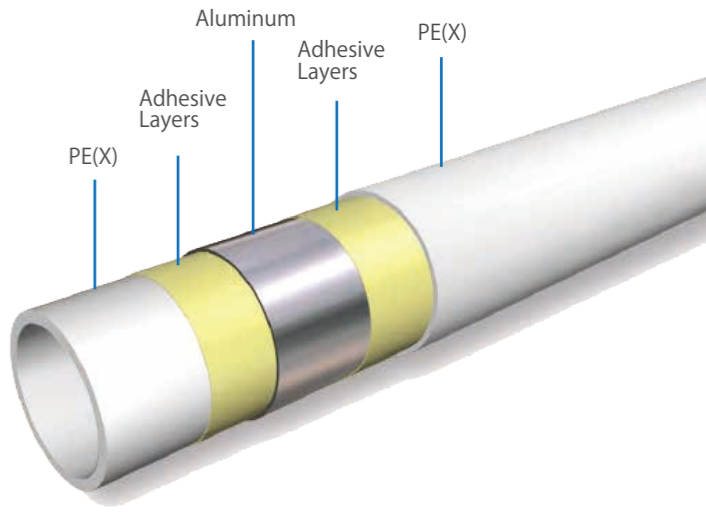


The aluminum thickness for Junxing pipe has been selected to meet compressive and flexural strength requirements. Butt welded pipe is moulding with several steps that is argon-arc welding style. The color of pipe is optional.

Specification:

- Color: red, white
- Length: 100 meters/roll or as per requested

Dimension:



Nominal diameter	Tolerance of outer diameter	Inside diameter	Tolerance of inter diameter	Pipe thickness	Tolerance of pipe thickness	Min thickness of inner layer(mm)	Min thickness of outer layer(mm)	Min thickness of aluminum (mm)
16	+0.20	12	+0.30	2.00	2.00~2.25	0.9	0.4	0.21
18	+0.20	14	+0.30	2.00	2.00~2.25	0.9	0.4	0.22
20	+0.20	16	+0.30	2.00	2.00~2.25	1	0.4	0.24
25	+0.20	20	+0.30	2.50	2.40~2.70	1.1	0.4	0.26
32	+0.20	26	+0.30	3.00	2.90~3.20	1.2	0.4	0.31

PRESS FITTINGS >>>

EQUAL STRAIGHT UNION



Specification(mm)	Packing (pcs/ctn)
1216x1216	320
1418x1418	
1620x1620	224
2525x2025	120
2632x2632	112

EQUAL ELBOW



Specification(mm)	Packing (pcs/ctn)
1216x1216	192
1620x1620	144
2025x2025	80
2632x2632	45

MALE TEE



Specification(mm)	Packing (pcs/ctn)
1216x1/2x1216	120
1620x1/2x1620	120

REDUCER



Specification(mm)	Packing (pcs/ctn)
1418x1418	
1620x1216	280
2025x1216	120
2025x1620	120
2632x2025	80

UNEQUAL ELBOW



Specification(mm)	Packing (pcs/ctn)
1620x1216	144

FEMALE TEE



Specification(mm)	Packing (pcs/ctn)
1216x1/2x1216	300
1620x1/2x1620	280
1620x3/4x1620	210
2025x1/2x2025	160
2025x3/4x2025	120

MALE STRAIGHT UNION



Specification(mm)	Packing (pcs/ctn)
1216x1/2	360
1216x3/4	200
1620x1/2	280
1620x3/4	200
1620x1	
2025x1/2	
2025x3/4	120
2025x1	120
2632x1	96
2632x1 1/4	

FEMALE STRAIGHT UNION



Specification(mm)	Packing (pcs/ctn)
1216x1/2	240
1216x3/4	280
1620x1/2	160
1620x3/4	240
2025x3/4	160
2025x1	120

PRESS FITTINGS >>>

MALE ELBOW



Specification(mm)	Packing (pcs/ctn)
1216x1/2	192
1216x3/4	120
1620x1/2	192
1620x3/4	120
2025x3/4	80
2025x1	96
2632x1	60

WALL-PLATED FEMALE ELBOW



Specification(mm)	Packing (pcs/ctn)
1216x1/2	112
1620x1/2	96

EQUAL TEE



Specification(mm)	Packing (pcs/ctn)
1216x1216x1216	120
1418x1418x1418	
1620x1620x1620	120
2025x2025x2025	64
2632x2632x2632	30

FEMALE ELBOW



Specification(mm)	Packing (pcs/ctn)
1216x1/2	200
1216x3/4	96
1620x1/2	160
1620x3/4	120
2025x3/4	80

UNEQUAL TEE



Specification(mm)	Packing (pcs/ctn)
1216x1620x1216	120
1620x1216x1216	120
1620x1216x1620	120
1620x1620x1216	120
1620x2025x1620	96
2025x1216x1216	96
2025x1216x2025	70
2025x1620x1620	70
2025x1620x2025	70
2632x1216x2632	
2632x1620x2632	
2632x2025x2632	

DEMOUNTABLE FEMALE STRAIGHT UNION



Specification(mm)	Packing (pcs/ctn)
1216x1/2	320
1620x1/2	
1620x3/4	160
2025x3/4	96
2025x1	120
2632x1	90

END CAP



Specification(mm)	Packing (pcs/ctn)
1216	75
1620	60

COPPER SPIGOT ADAPTER



Specification(mm)	Packing (pcs/ctn)
1216x15	288
1620x22	144
2025x22	120

COMPRESSION FITTINGS >>>

EQUAL STRAIGHT UNION



Specification(mm)	Packing (pcs/ctn)
1216x1216	192
1418x1418	
1620x1620	160
2025x2025	112
2632x2632	96

UNEQUAL STRAIGHT UNION



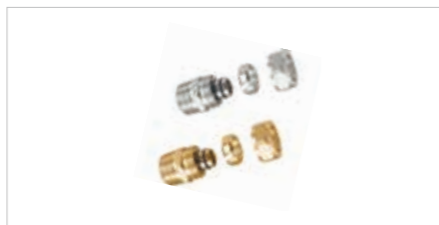
Specification(mm)	Packing (pcs/ctn)
1620x1216	192

UNEQUAL STRAIGHT UNION



Specification(mm)	Packing (pcs/ctn)
1216x1216	120
1620x1620	120
2025x2025	80
2632x2632	48

MALE STRAIGHT UNION



Specification(mm)	Packing (pcs/ctn)
1216x1/2	288
1216x3/4	200
1418x1/2	192
1418x3/4	192
1620x1/2	192
1620x3/4	192
2025x3/4	128
2025x1	128
2026x3/4	108
2026x1	
2032x1	108

FEMALE STRAIGHT UNION



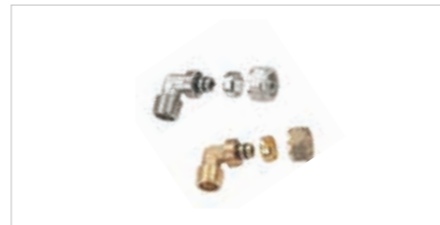
Specification(mm)	Packing (pcs/ctn)
1216x1/2	30
1216x3/4	
1620x1/2	25
1620x3/4	30
2025x3/4	30
2025x1	25
2026x3/4	
2026x1	20
2632x1	

EQUAL ELBOW



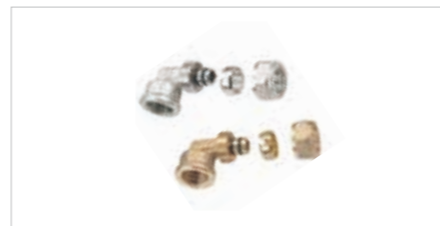
Specification(mm)	Packing (pcs/ctn)
1216x1216	120
1620x1620	120
2025x2025	80
2632x2632	48

MALE ELBOW



Specification(mm)	Packing (pcs/ctn)
1216x1/2	160
1620x1/2	128
1620x3/4	128

FEMALE ELBOW



Specification(mm)	Packing (pcs/ctn)
1216x1/2	160
1418x1/2	144
1620x1/2	120
1620x3/4	120
2025x3/4	96
2632x1	60

COMPRESSION FITTINGS >>>

EQUAL TEE



Specification(mm)	Packing (pcs/ctn)
1216x1216x1216	96
1418x1418x1418	
1620x1620x1620	96

UNEQUAL TEE



Specification(mm)	Packing (pcs/ctn)
1620x1216x1216	
1620x1216x1620	80
2025x1620x2025	56

MALE TEE



Specification(mm)	Packing (pcs/ctn)
1216x1/2x1216	120
1620x1/2x1620	80

FEMALE TEE



Specification(mm)	Packing (pcs/ctn)
1216x1/2x1216	120
1620x1/2x1620	96

WALL-PLATED FEMALE ELBOW



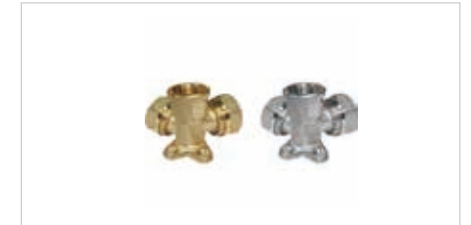
Specification(mm)	Packing (pcs/ctn)
1216x1/2	112
1620x1/2	96

END CAP



Specification(mm)	Packing (pcs/ctn)
1216	

DOUBLE WALL-PLATED FEMALE ELBOW



Specification(mm)	Packing (pcs/ctn)
1216x1/2x1216	64

TOOLS >>>

EXTERNAL BENDING SPRING



Specification(mm)	Packing (pcs/ctn)
1014	
1216	6x6
1418	4x6
1620	4x6
2025	2x6
2632	

INTERNAL BENDING SPRING



Specification(mm)	Packing (pcs/ctn)
1014	40x6
1216	25x6
1418	20x6
1620	15x6
2025	9x6
2632	4x6

ADJUSTABLE MANUAL PRESSING CLAMP



Specification(mm)	Packing (pcs/ctn)
1016~2032	1

EXPANDER



Specification(mm)	Packing (pcs/ctn)
16~32	

PIPE CUTTER



Specification(mm)	Packing (pcs/ctn)
16~32	50

INSTALLATION OF PRESS FITTINGS

STEP1: Pipe cutting

Cut the pipe vertically and precisely with a pipe cutter.



STEP2: Rounding and beveling

Round and bevel the end holes with JUNXING reamer.



STEP3: Inserting

Choose the right size sleeved-fitting for the pipe, then aim the pipe end at the ring-shape hole of the fitting integrated with sleeve and slide the fitting insert into the pipe until it reaches the plastic block. Check the inserting depth by looking through the inspection holes on the sleeve shoulder to ensure that the pipe is completely inserted.



STEP4: Pressing

1. Selecting jaw.
2. Installing jaw on to the tool.
3. Adjusting the pressing tool.
4. Open the pressing tool and position the tool right onto the sleeve.
5. Close the handles until the two touch points on the handles touch each other.
6. While the jaw is completely closed, the handles will be self-locked. Open the handles and remove the pressing tool from the fitting and installation is accomplished.



Notice:

1. The installation manual is especially for the 14-32(mm) piping systems.
2. For your safe connection, JUNXING pipes should be connected with approved fittings recommended by JUNXING.

INSTALLATION OF COMPRESSION FITTINGS



STEP1: Pipe cutting

Cut the pipe vertically and precisely with a pipe cutter.



STEP2: Rounding and beveling

Round and bevel the end holes with JUNXING reamer.



STEP3: Inserting

Choose the right size fitting according to the pipe, put the nut over the pipe, side the compression ring over the pipe, make sure the mouth of the nut and the pipe faces the same direction. Push the inserts into the pipe up to the shoulder, take care not to damage the O-ring.



STEP4: Pressing

Follow the clamp tools instruction; position the clamp jaws so that their ends aligned with the end of the press sleeve. Shut the press clamp and begin the pressing procedure. It can only clamp once.



Notice:

1. The installation manual is especially for the 14-32(mm) piping systems.
2. For you safe connection, JUNXING pipes should be connected with approved fittings recommended by JUXING.