



## **RISONG POLYPIPE MANUFACTURER CO.,LTD**

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# **MULTILAYER PIPING SYSTEM**



# PIPING SYSTEM



### **TFWNDouble Newly Developed Mill**

# **COMPANY BRIEF INTRODUCTIN**

RISONG POLYPIPE MANUFACTURER CO., LTD, which was founded in 1995, is a professional manufacturers of plastic pipes & fittings in China. With the workshop situated in Shaoxing city, RISONG Company has over 100 employees and more than 20,000 square meters workshops. Equipped with world advanced pipe extrusion lines and injection machines, the company's annual output of plastics reaches over 10000 tons.

As a modern & hi-tech enterprise, RISONG has mature technique, advanced production machines, professional workers, rich experience, as well as strict quality control system. The company have passed ISO9001:2000 certificate, ISO14001:2004 certificate for our company, and CE certificate, WRAS certificate.etc for our products. Till now, RISONG has extended its business to over 20 countries and areas in the world.

Now, RISONG provides about 150 different products of plastic pipes & fittings for water, gas & heating, comprising four categories: HDPE pipes & fittings for water and gas, PPR pipes & fittings for water, PEX-AL-PEX multilayer pipes & fittings for water and gas, PEX pipes for under-floor heating systems..

Sticking to the managing guideline of "quality is life, technology is leading force, client's satisfaction is ultimate target" all the while, we are getting more and more business opportunity from all over the world. We warmly welcome the customers from abroad to inquire to us, and build a "win-win" business relationship together.



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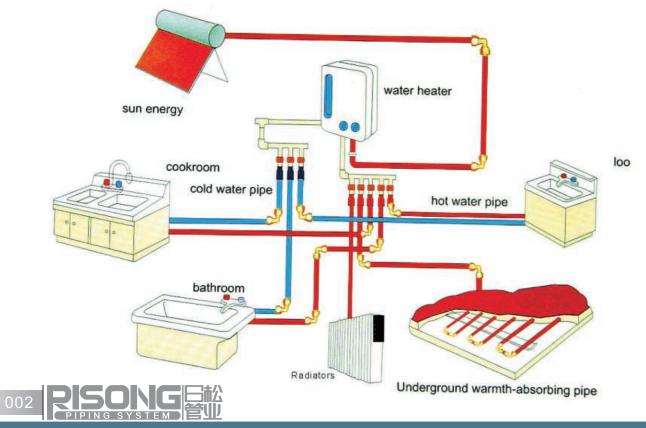
Based on Risong multilayer pipes, the system is built for safety and reliability, using corrosion-proof components assembly is clean, safe and fast. The smooth inner surface of Risong pipe prevents deposit accumulation and corrosion, leading up to 30% more flowing than metal pipe. Combining the advantages of plastic and metal, Risong multilayer pipe is ideal for all common hot and cold water installations. Risong pipes and fittings carry the CE certificate for the potable water.

Risong multilayer piping system is a complete system including: pipes, brass fittings, installtion tools.



### Main applications:

- Tap water, cold and hot water pipe, central air-condition sleeve, water-purified equipments.
- Caliduct, under floor caliduct (save more energy than normal pipe)
- Gas pipe (easy operation, bendable, few junctions, static resistant)
- Compressed, oxygen pipage (free from oxygen, no infiltration)



## **MULTILAYER PIPES**

RISONG multilayer pipe is five-layer composite pipe that **PEX or HDPE Material** combines the advantage of a metal and plastic pipe, and Welded Aluminum 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. \* Overlapped welded pipe is co-extruded with one step with perfect adhesive between inner layer and aluminum, Adhesive

high and stable pressure resistance, of which welding style is ultrasonic.

\* Butt welded pipe is moulding with several steps that is argon-arc welding style.

By comparing with other metal pipes and plastic pipes, Risong multilayer piping systems have the following advantages:

\* Smooth wall leads to a 30% more flow than metal pipe

% High-temperature retardant, low-temperature resistance: the pipe can endure + 110 $^{\circ}$ C and - 40 $^{\circ}$ C temperature.

※ Simple installation

\* Hygiene: inner layer & outer layer of pipes are made by pure PEX raw material. The middle layeraluminum core prevents gas/oxygen the invasion inside the pipes. \* Weathering working life: Have a working life of more than 50 years.

ISO9001:2000	16x2.0	PE/AL/PE Tmax=
ISO9001:2000	16x2.0	PE/AL/PEX Tma
ISO9001:2000	16x2.0	PE-X/AL/PE-X
-ISO9001:2000	16x2.0	PE-RT/AL/PE-F
ISO9001:2000	16x2.0	PE/AL/PE Tmax=







## MULTILAYER PIPES

### Remark:

%Pipe length can be in 50/100/200 meters, other length available as per request.

\*Colors available: white, red or yellow, or as per request

\*Both overlapped welded pipes & butt laser welded pipes are available.



PEX-AL-PEX PIPE (For hot water & gas)	Code	Specification (mm)	Package meter/coil
	RS-2002	0912	50/100/200
		1216	50/100/200
PRICE		1418	50/100/200
		1620	50/100/200
and a second and a		2025	50/100/200
mone a		2026	50/100
		2632	50/100

PERT-AL-PERT PIPE



Code	Specification (mm)	Package meter/coil
RS-2003	0912	50/100/200
	1216	50/100/200
	1418	50/100/200
	1620	50/100/200
	2025	50/100/200
	2026	50/100
	2632	50/100

## **MULTILAYER PIPING SYSTEM**

## **COMPRESSION TYPE BRASS FITTINGS**

### Remark:

%The brass fittings are made by high quality brass materials, such as CW617,58-2,CW602N DZR,C48600,etc.

%The colors available: original brass or nickel-palted







Specification (mm)	Package pcs/bag
S16×16	160
S18×18	130
S20×20	100
S26×26	80
\$32×32	30
Specification (mm)	Package pcs/bag
S20×16	120
S26×16	90
S26×20	80
S32×16	55
\$32×20	50
\$32×26	40
Specification (mm)	Package pcs/bag
S16×1/2" F	240
S16×3/4" F	160
S18×1/2" F	200
S20×1/2" F	150
S20×3/4" F	150
S26×1/2" F	120
S26×3/4"F	100
S26×1"F	100
S32×1/2" F	90
S32×3/4" F	85
S32×1" F	70





MALE ADAPTOR	Code	Specification (mm)	Package pcs/bag
	RS-2007	S16×1/2" M	240
		S16×3/4" M	160
		S18×1/2" M	200
the free		S20×1/2" M	150
A Martin Participation		S20×3/4" M	150
		S26×1/2" M	120
		S26×3/4"M	100
Berry -		S26×1"M	100
		S32×1/2" M	90
		S32×3/4" M	85
		S32×1" M	70

## MULTILAYER PIPING SYSTEM



ELBOW	Code	Specification (mm)	Package pcs/bag
	RS-2008	L16×16	160
		L18×18	120
		L20×20	100
		L26×26	50
		L32×32	40
		L20×16	100
No.		L26×20	50

SEATED FEMALE ELBOW	Code	Specification (mm)	Package pcs/bag
	RS-2009	ZL16×1/2"F	100
		ZL16×3/4"F	80
		ZL18×1/2"F	80
		ZL20×1/2"F	80
A		ZL20×3/4"F	60
•			





Specification (mm)	Package pcs/bag
L16×1/2"F	160
L16×3/4"F	120
L18×1/2"F	140
L20×1/2"F	120
L20×3/4"F	100
L26×3/4"F	70
L26×1"F	60
L32×3/4"F	50
L32×1"F	50
Specification (mm)	Package pcs/bag
L16×1/2"M	200
L16×3/4"M	200
L18×1/2"M	160
L20×1/2"M	150
L20×3/4"M	100
L26×1/2"M	80
L26×3/4"M	70
L26×1"M	60
L32×3/4"M	50
L32×1"M	50
Specification (mm)	Package pcs/bag
T16×16×16	100
T18×18×18	80
T20×20×20	70

T26×26×26

T32×32×32



40

30



REDUCING TEE	Code	Specification (mm)	Package pcs/bag
	RS-2013	(iiiii) T20×16×20	
	KS-2013		70 40
		T26×16×26	
AMARINA		T26×20×26	40
		T32×16×32	30
		T32×20×32	20
		T32×26×32	20
FEMALE TEE	Code	Specification (mm)	Package pcs/bag
	RS-2014	T16×1/2"F×16	80
		T16×3/4"F×16	80
		T18×1/2"F×18	70
		T20×1/2"F×20	70
		T20×3/4"F×20	60
		T26×1/2"F×26	50
		T26×3/4"F×26	40
		T26×1"F×26	40
		T32×1/2"F×32	40
		T32×3/4"F×32	30
		T32×1"F×32	30
MALE TEE	Code	Specification (mm)	Package pcs/bag
	RS-2015	T16×1/2"M×16	100
		T16×3/4"M×16	80
		T18×1/2"M×18	90
		T20×1/2"M×20	80
		T20×3/4"M×20	60
17751		T26×1/2"M×26	50
		T26×3/4"M×26	40
		T26×1"M×26	30
		T32×1/2"M×32	30
		T32×3/4"M×32	30
		102-0/1 10-02	

## MULTILAYER PIPING SYSTEM

## PRESS TYPE BRASS FITTINGS

### Remark:

%The brass fittings are made by high quality brass materials, such as CW617,58-2,CW602N DZR,C48600,etc.

%The colors available: original brass or nickel-palted

EQUALADAPTOR	Code	Specification (mm)	Package pcs/bag
	RS-2016	S16×16	160
		S20×20	100
		S25×25	80
		S32×32	30
REDUCING ADAPTOR	Code	Specification (mm)	Package pcs/bag
	RS-2017	S20×16	120
		S25×16	100
		S25×20	90
		S32×16	50
		S32×20	40
		\$32×25	35
FEMALE ADAPTOR	Code	Specification (mm)	Package pcs/bag
	RS-2018	S16×1/2"F	240
		S16×3/4"F	220
		S20×1/2"F	150
		S20×3/4"F	150
		S20×1"F	140
		S25×1/2"F	110
		S25×3/4"F	100
		S25×1"F	100
		S32×3/4"F	50
		S32×1"F	50









MALE ADAPTOR	Code	Specification (mm)	Package pcs/bag
	RS-2019	S16×1/2"M	240
		S16×3/4"M	240
		S20×1/2"M	160
		S20×3/4"M	150
		S20×1"M	150
		S25×1/2"M	160
Allow A		S25×3/4"M	160
		S25×1"M	100
		S32×3/4"M	60
		S32×1"M	60

## MULTILAYER PIPING SYSTEM



ELBOW	Code	Specification (mm)	Package pcs/bag
	RS-2020	L16×16	160
		L20×20	100
		L25×25	50
		L32×32	40
AT I		L20×16	110
		L25×16	60
		L25×20	50
		L32×20	50
		L32×25	40

SEATED FEMALE ELBOW	Code	Specification (mm)	Package pcs/bag
	RS-2021	ZL16×1/2"F	200
		ZL20×1/2"F	150
		ZL20×3/4"F	100
		ZL25×3/4"F	60





Specification (mm)	Package pcs/bag
L16×1/2"F	160
L16×3/4"F	120
L20×1/2"F	120
L20×3/4"F	100
L25×3/4"F	70
L25×1"F	60
L32×3/4"F	50
L32×1"F	50

Specification (mm)	Package pcs/bag
L16×1/2"M	200
L16×3/4"M	200
L20×1/2"M	150
L20×3/4"M	100
L25×1/2"M	80
L25×3/4"M	70
L25×1"M	60
L32×3/4"M	50
L32×1"M	50

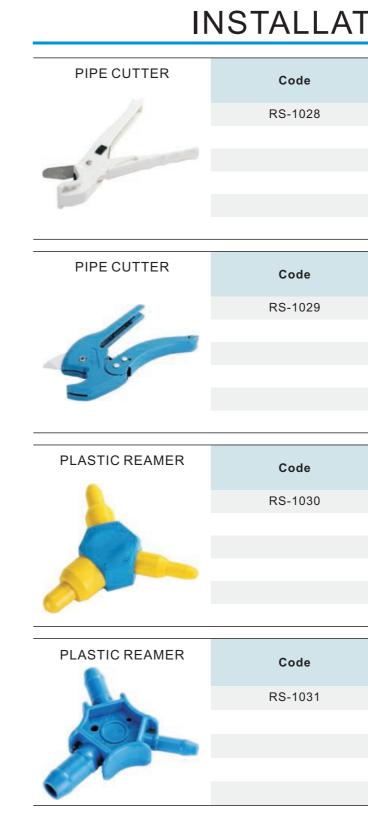
Specification (mm)	Package pcs/bag
T16×1/2"F×16	80
T16×3/4"F×16	80
T20×1/2"F×20	70
T20×3/4"F×20	60
T25×1/2"F×25	50
T26×3/4"F×25	40
T26×1"F×25	40
T32×1/2"F×32	40
T32×3/4"F×32	30
T32×1"F×32	30





EQUAL TEE	Code	Specification (mm)	Package pcs/bag
	RS-2025	T16×16×16	100
		T20×20×20	70
		T25×25×25	40
		T32×32×32	30
REDUCING TEE	Code	Specification (mm)	Package pcs/bag
	RS-2026	T20×16×20	70
		T25×16×25	40
		T25×20×25	40
		T32×16×32	30
		T32×20×32	30
		T32×25×32	30
MALE TEE	Code	Specification (mm)	Package pcs/bag
	RS-2027	T16×1/2"M×16	100
	110-2021	110×1/2 1/1×10	100
	110-2021	T16×3/4"M×16	80
	110-2027		
	110-2027	T16×3/4"M×16	80
	110-2027	T16×3/4"M×16 T20×1/2"M×20	80 80
	110-2021	T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20	80 80 60
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25	80 80 60 50
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25 T26×3/4"M×25	80 80 60 50 40
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25 T26×3/4"M×25 T26×1"M×25	80 80 60 50 40 30
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25 T26×3/4"M×25 T26×1"M×25 T26×1"M×25 T32×1/2"M×32	80 80 60 50 40 30 30
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25 T26×3/4"M×25 T26×1"M×25 T32×1/2"M×32 T32×3/4"M×32	80 80 60 50 40 30 30 30
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25 T26×3/4"M×25 T26×1"M×25 T32×1/2"M×32 T32×3/4"M×32	80 80 60 50 40 30 30 30
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25 T26×3/4"M×25 T26×1"M×25 T32×1/2"M×32 T32×3/4"M×32	80 80 60 50 40 30 30 30
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25 T26×3/4"M×25 T26×1"M×25 T32×1/2"M×32 T32×3/4"M×32	80 80 60 50 40 30 30 30 30
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25 T26×3/4"M×25 T26×1"M×25 T32×1/2"M×32 T32×3/4"M×32	80 80 60 50 40 30 30 30
		T16×3/4"M×16 T20×1/2"M×20 T20×3/4"M×20 T26×1/2"M×25 T26×3/4"M×25 T26×1"M×25 T32×1/2"M×32 T32×3/4"M×32	80 80 60 50 40 30 30 30

## MULTILAYER PIPING SYSTEM







## INSTALLATION TOOLS

Specification	Package
(mm)	
(mm)	pcs/bag
14-42	50
Specification	Package
(mm)	pcs/bag
	50
14-42	50
Specification	Package
Specification	Package
Specification (mm)	Package pcs/bag
(mm)	pcs/bag
(mm) 16×20×26×32	pcs/bag 100
(mm) 16×20×26×32 Specification	pcs/bag 100 Package
(mm) 16×20×26×32	pcs/bag 100
(mm) 16×20×26×32 Specification (mm)	pcs/bag 100 Package pcs/bag
(mm) 16×20×26×32 Specification	pcs/bag 100 Package
(mm) 16×20×26×32 <b>Specification</b> (mm) 16×20×26	pcs/bag 100 Package pcs/bag 100
(mm) 16×20×26×32 Specification (mm)	pcs/bag 100 Package pcs/bag
(mm) 16×20×26×32 <b>Specification</b> (mm) 16×20×26	pcs/bag 100 Package pcs/bag 100
(mm) 16×20×26×32 <b>Specification</b> (mm) 16×20×26	pcs/bag 100 Package pcs/bag 100
(mm) 16×20×26×32 <b>Specification</b> (mm) 16×20×26	pcs/bag 100 Package pcs/bag 100





TREAMER	Code	Specification (mm)	Package pcs/bag
	RS-1032	16×20×26×32	100

EXTERNAL BENDING SPRING	Code	Specification (mm)	Package pcs/bag
	RS-1033	16	100
		20	100
		26	50
		32	50

INTERNAL BENDING SPRING	Code	Specification (mm)	Package pcs/bag
	RS-10334	16	100
		20	100
		26	50
		32	50



Code	Specification (mm)	Package pcs/bag
RS-1035	16-32	5

PRESS JAWS	Code	Specification (mm)	Package pcs/bag
Castria	RS-1036	16	50
		20	50
		25	20
		32	20

## For Compression Type Brass Fittings:



**Step 1: Pipe cutting** 



Step 2: Rounding and beveling



**Step 3: Sleeving** 

faces the same direction.



2. Push the inserts into the pipe up to the shoulder, take care not to damage the O-ring.



**Step 4: Tightening** 

Screw-tighten the fitting with the spanner





## **INSTALLATION INSTRUCTIONS**



Cut the pipe vertically and precisely with RISONG pipe cutter

Round and bevel the end holes with RISONG reamer.

1. Choose the right size fitting according to the pipe, put the nut over the pipe, inside the compression ring over the pipe, make sure the mouth of the nut and the pipe





## **INSTALLATION INSTRUCTIONS**

## **INSTALLATION INSTRUCTIONS**

## For Press Type Brass Fittings:



**Step 1: Pipe cutting** 

Cut the pipe vertically and precisely with RISONG pipe cutter



### Step 2: Rounding and beveling

Round and bevel the end holes with RISONG reamer.



### **Step 3: Sleeving**

Choose the right size sleeved-fitting according to 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.



### **Step 4: Pressing**

- Selecting jaw.
   Installing jaw on to the tool
- 3. Adjusting the pressure tool4. Open the pressing tool and position the tool ring 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 handle and remove the pressing tool from the fitting and installation is accomplished.







