

**PRODUCT CATALOGUE**



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## Company Profile



Late Thakur Ganpat Rai  
(Founder)

The "SANT" group seeded by Thakur Ganpat Rai in 1953. We are in the business of "VALVES", "PIPE FITTINGS", "FORGED PIPE FITTINGS" and "HAND TOOLS". The group came to the popularity as "SANT group of Industries", having two units of Valves, two units of Pipe Fittings and one 100% export unit of Hand Tools. This is unending saga of our success; Now, we have started a company in the name of "SANT INTERNATIONAL PVT. LTD."

"SANT INTERNATIONAL PVT. LTD." is doing the business of Multilayer composite Pipes, Fittings, Tools & Accessories and it has signed an agreement with "Rifeng Enterprises Co. Ltd." with the trade mark of "SANT-RIFENG".

"SANT-RIFENG" provides advanced piping solutions for Indoor Climate, Plumbing and Gas Transportations in all building types, from residential house to industrial and commercial buildings.

Rifeng is an ISO 9001 and ISO 14001 certified company and leading provider of Plumbing and Indoor climate systems. They have strength of 4000 working people. They have 3 Plastic Pipe Factories, 1 Fitting & Valves Factory, 1 Flow Control Factory, 1 Heat Pump Factory and 1 Manifold Factory.

Rifeng is at the forefront of piping solution innovation, providing integrated systems from pipes and fittings to tools and accessories. Everything you need is designed, produced and supported by the same company. With over 15 years' experiences in thermoplastic piping, you can count on Rifeng to deliver quality.

Rifeng endeavors to provide our customers with diversity in choices and satisfaction in quality. By integrating our excellent R&D capacity and production scale, we are able to provide a range of services from OEM to tailored services for niche markets.



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# Technical Information

## Main characteristics

### Thermal & pressure resistant

Note: 1Mpa=145psi=10bar table 1

Specification	Minimum burst pressure (MPa)	Min pipe ring strength (N)	Long-term hydrostatic strength(MPa)	
(mm)	(inch)			
1014	3/8	7.0	2300	2.7
1216	1/2	6.0	2300	2.7
1418	9/16	6.0	2300	2.7
1620	5/8	5.0	2500	2.7
2025	3/4	4.0	2500	2.3
2632	1	4.0	2500	2.1
3240	1 1/4	4.0	2800	2.1
4150	1 1/2	3.5	3200	2.0
5163	2	3.5	3200	2.0
6075	2 1/2	3.5	3200	2.0

### Absolutely diffusion

The aluminium core is continuously overlapped or butt welded and prevents oxygen/gases from permeating into the pipe. Consequently, the corrosion of metallic installation components is avoided.

### Better earthquake resistance of structure

Shaken but not stirred, Rifeng pipes are flexible. This not only means that they are easy to install but they are also reliable- especially when an earthquake strikes.

### Technical Data of Sant-rifeng Composite Pipes

	Material	Application	Size	Highest working pressure
Pipe A	HDPE/AL/HDPE	Cold water (-40°C-60°C)	1014-6075	1Mpa
Pipe B1	PEX/AL/PEX	Hot water (-40°C-95°C)	1014-6075	1Mpa
Pipe C	HDPE/AL/HDPE	Gas (-20°C-60°C)	1014-2632	0.4Mpa

Nominal size(D x e)	14 x 2.0	16 x 2.0	18 x 2.0	20 x 2.0	25 x 2.5	32 x 3.0	40 x 4.0	50 x 4.5	63 x 6.0	75 x 7.5
Outside diameter(mm)	14	16	18	20	25	32	40	50	63	75
Inside diameter(mm)	10	12	14	16	20	26	32	41	51	60
Coil length(m)	200/100	200/100	200/100	200/100	100/50	100/50	-	-	-	-
Straight length(m)	-	-	-	-	-	-	5	5	5	5
Weight of coil/straight length(g/m)	93	110	130	146	215	334	550	833	1317	1877
Weight per coil(kg)	18.6 ± 2	22.0 ± 2	26.0 ± 2	29.2 ± 2	21.5 ± 2	33.4 ± 2	27.5 ± 1	41.7 ± 1	65.9 ± 1	93.9 ± 1
Outside diameter of coil(cm)	40.5 ± 1	40.5 ± 1	42 ± 1	42 ± 1	44 ± 1	56 ± 1	-	-	-	-
The minimum aluminum thickness(mm)	0.2	0.2	0.22	0.24	0.26	0.31	0.40	0.50	0.60	0.70

### Low thermal conductivity

0.45W/m.k, about 1/100 of the steel pipes, more suitable for hot water supply than metal pipe.

### Corrosion resistant

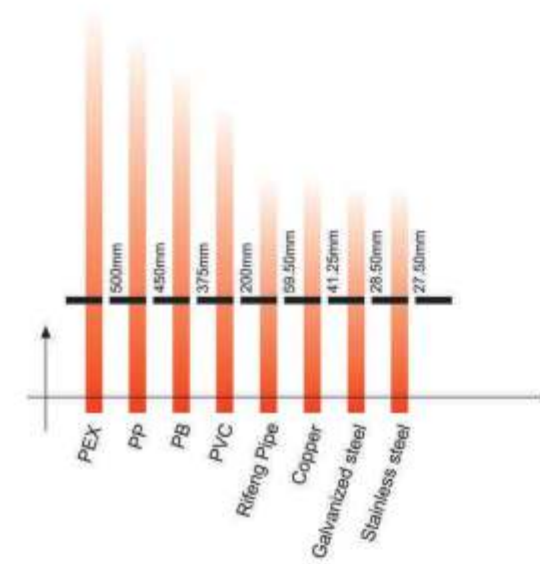
The smooth inner and outer plastic layers hold water at bay-preventing deposit accumulation and corrosion. At normal temperature, it can withstand all kinds of acid, alkali and salt solution.

### Hydraulic Function

The inner roughness of Rifeng pipe is 0.007mm. The inner is very smooth that makes Rifeng pipe ideal for liquid (like water) supply.

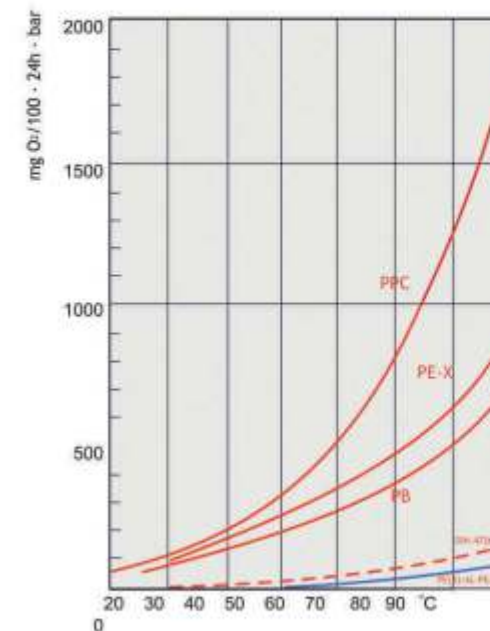
### Low heat expansion (see graph)

25x10-6 m/m.k, only 1/8 of polyethylene pipe's, almost same to aluminium pipe's. The permanent bond of plastic layers to the aluminium considerably reduces heat expansion.



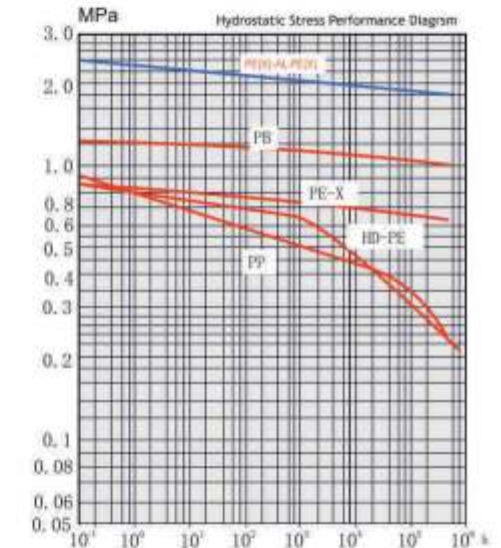
50 meters pipe, expansion at 50°C temperature difference.

### Oxygen-permeability of various kinds of plastic pipes



### Pressure resistant and long service life

The diagram shows that Sant-Rifeng pipe will last you 50 years of operation under the set conditions and pressures. The forcing aging test by the Synthetic Materials Research Institute of Ministry of Chemical Industry has proved it as well.



### Advantages comparison between Sant-Rifeng Pipe and other pipes

Projects	Pipes	Rifeng pipe All-plastic pipe	Galvanize d pipe
materials	PE-AL-PE PEX-AL-PEX HDPE-AL-HDPE	PPC or PE or PB or UPVC etc	steel
self weight	light	light	heavy
packing	coil	coil or straight	straight
cutting	easiest	easy	difficult
connection	easy	easier or easy	difficult
shock-resistance	strong	general	strong
pressure-resistance	high	general	high
corrosion-resistance	high	high	bad
bending	easy but never spring back	easy but spring back	no bending
permeability	no	oxygen diffusion	no
size stability	high	lower	high
installing	easy & no contamination	easy	difficult & contamination
burning-resistance	good	bad	best
service life	long	longer or long	short
hygiene	best	good	bad

## ►► Approvals

Sant-Rifeng Multilayer and PEX Piping Systems have certifications of German DVGW and other international institutes, all in all nearly 50 certificates e.g. DVGW, NSF, KOMO, AENOR, IAPMO.

These certificates worldwide underline our Technical and quality know-how, and this is the reason why we can provide you with a 10 years system warranty backed up by an international insurance company. With the best quality, the most professional technology, the most friendly service and support, we are your best choice!



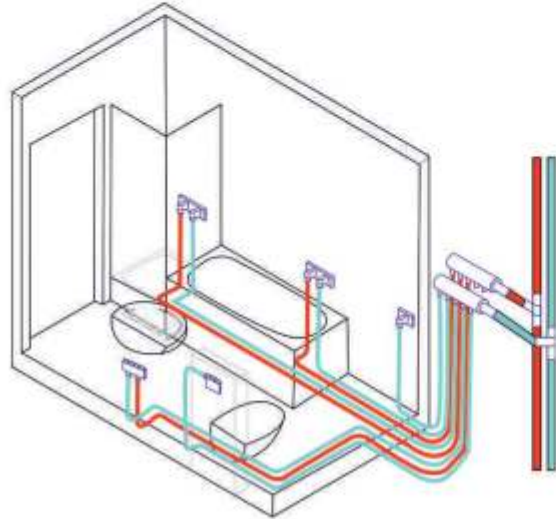
## ►► Sant-Rifeng Multilayer Plumbing Systems

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



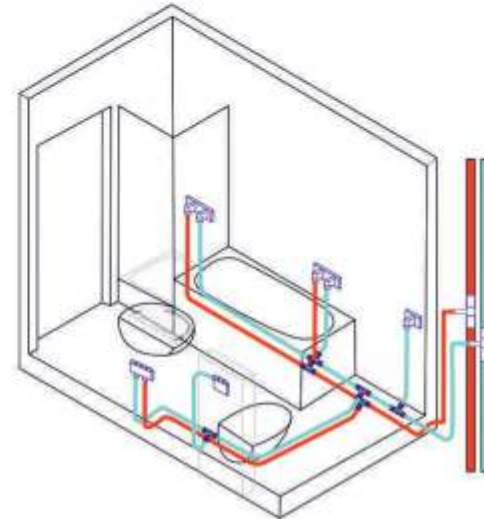
## ►► Installation Variants:

### ● Manifold installation



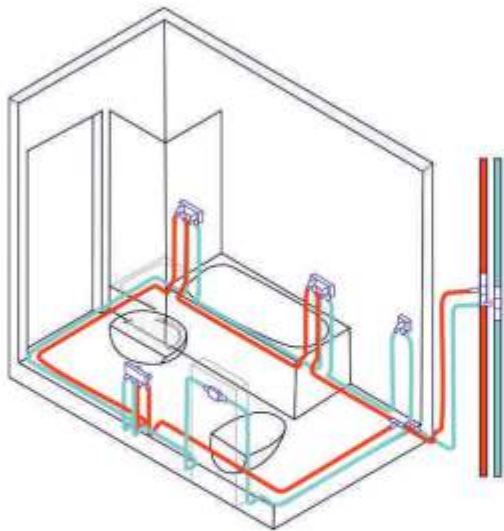
- Easy planning
- Simple determination of pressure loss and rating
- Low pressure losses
- No connection points underfloor
- Less fittings required
- Individual valve connection

### ● Tee installation



- Supplying several tappings with one pipe
- Less pipe required
- For renovation installation in existing slots
- Individual valve connections

### ● Manifold installation



- Eases the pressure loss
- Save the usage of pipes and fittings

## ►► A Whole System With Sant-Rifeng

### Five layers in one pipe do it all!

With Sant-Rifeng's five layer composite pipes, we have developed an advanced product that unites the advantages of a metal and plastic pipe and eliminates the disadvantages of both materials at the same time. This offers product advantages that are second to none:

- Form stable-the bends stay in place, making the system quick to install while using fewer fittings.
- Linear expansion rates closer to copper than other pure plastics pipes.
- The aluminium core is absolutely diffusion tight.

### Smart fittings-Fast, Easy, Permanent, Safe!

The strength of Sant-Rifeng also lies in the fitting, which is designed to perfectly fit the pipe this ensures that all fittings have optimized insert part geometry for a long and safe life-time. The Sant-Rifeng Multilayer Plumbing System range of fittings, consisting of couplings, elbows, tees and a large number of other system components leaves nothing to be desired: pressing or screwing-both methods can be used to ensure a permanently tight connection.

### Matched components complete assortments for the entire installation!

- Especially suitable for renovation and DIY.
- Simple connection of all plumbing objects and valves on the market.



## ►► Products-Pipe

Sant-Rifeng multilayer pipe is five-layer composite pipe that combines the advantages of a 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.

\* Overlapped welded pipe is co-extruded with one step with perfect adhesive between inner layer and aluminum, 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.



### Advantages

#### Best of Both Worlds

Strength, memory and pressure rating of aluminum with the corrosion resistance of PEX inside and out.

#### 100% Oxygen Tight

Absolutely isolated due the utilization of aluminum core, no growth of micro organism, nontoxic, safe and hygienic.

#### Flexibility

Bends easily without bounce, bends to your will without additional fittings.

#### Resistance Capability

Prominent pressure and temperature resistant, resists most acids, salt solutions, alkalis, fats, and oils, corrosion with excellent performance.

#### Fields of Application

Cold & hot water supply, gas & heating system for commercial and domestic usage.

#### Easy Handling & Simple Installation

Low pipe weight, easy to carry and store, can be rolled out by hand without using special tools, stays where you put it. (Doesn't spring back.)

#### Labor Saving

Using Sant-Rifeng PEX-AL-PEX pipes requires less labor, labor cost can be reduced and time limit for project would be shortened.

#### Can be located with a Metal Detector

When remodeling, adding walls or bolting down equipment, it's a must to be able to find the pipe.

#### Fitting Range

Choice of Sant-Rifeng patented F5 press fitting, nickel plated copper alloy brass or DZR brass (De-Zincification Resistance brass).

Sant-Rifeng PEX-AL-PEX Pipe meets the requirements of As4176.

Specifications	Packing Specif.(m)	Color (out/in)	Specifications	Packing Specif.(m)	Color (out/in)
<b>HDPE-AL-HDPE</b> Five layer (HDPE-adhesive agent-Continuously overlapped welded aluminium-adhesive agent-HDPE), specializing for cold water.			<b>PEX-AL-PEX</b> 100% diffusion-resistant Multi-layer composite (MLCP) pipe, five layer (PEX-adhesive agent-Continuously overlapped welded aluminium-adhesive agent-PEX), for general plumbing, underfloor heating, radiator-connection and gas applications.		
A-1216	200/100	White/White	B1-1216	200/100	Orange/Orange
A-1418	200/100	White/White	B1-1620	200/100	
A-1620	200/100	White/White	B1-2025	100/50	
A-2025	100/50	White/White	B1-2632	100/50	
A-2632	100/50	White/White	-----		
A-3240	5	White/White	B1-3240	5	Orange/Orange
A-4150	5	White/White	B1-4150	5	
A-5163	5	White/White	B1-5163	5	
A-6075	5	White/White	B1-6075	5	
			B1-1418	200/100	
			B1-2026	100/50	

## ►► Products-Fittings

### Press Fitting-F5 (U profile)

The patented Rifeng F5 press fitting is an innovative fitting, which is developed according to the international advanced technology, and has been the main stream fitting in Europe and USA.



Patent Nr.  
20 2005 008 109.4

DR or CR

DVGW W 534  
EN 12164  
DIN 50930-6



#### Unique structure:

1. Two O-rings placed on the fitting insert.
2. Three annular grooves on the three-step-labyrinth structure inset.
3. Perfect sealing performance.

#### High quality sealing material:

The material of Rifeng F5 fitting O-rings is EPDM, which has excellent specialty of anti-aging, well-rebound and long lifetime performance. It ensures no leaking in the piping system for long-term use.

#### Secure Connecting way:

The safe and stable connecting lies on the permanent compression plastic deformation of the stainless steel sleeve by using the special pressing tool to complete the connecting correctly.

### Press Fitting-F5 (U profile)

	Specifications	pcs/box	pcs/ctn.
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#### Equal straight union

Both ends connected to multi-layer pipes of the same size, made of plated brass with press sleeve.



F5-S1216*1216 IIA	40	320
F5-S1418*1418 IIA		
F5-S1620*1620 IIA	28	224
F5-S2025*2025 IIA	15	120
F5-S2632*2632 IIA		90
F5-S3240*3240 II		45
F5-S4150*4150 II		35
F5-S5163*5163 II		15
F5-S6075*6075 II		10

#### Reducer

Both ends connected to multi-layer pipes of different sizes, made of plated brass with press sleeve.



F5-S1418*1418 IIA		
F5-S1620*1216 IIA	35	280
F5-S2025*1216 IIA	15	120
F5-S2025*1620 IIA	15	120
F5-S2632*1620 IIA	15	120
F5-S2632*2025 IIA	10	80
F5-S3240*2025 IIA		40
F5-S3240*2632 IIA		40
F5-S4150*2632 IIA		25
F5-S4150*3240 II		30
F5-S5163*4150 II		18




#### Male straight union

Made of plated brass with press sleeve. With male-threaded adaptor for screw connections.






F5-S1216*1/2 IIA	45	360
F5-S1216*3/4 IIA	25	200
F5-S1620*1/2 IIA	35	280
F5-S1620*3/4 IIA	25	200
F5-S1620*1 IIA		
F5-S2025*3/4 IIA	15	120
F5-S2025*1/2 IIA		
F5-S2025*1 IIA	15	120
F5-S2632*1 IIA	12	96
F5-S2632*1 1/4 II		
F5-S3240*1 1/2 II		60
F5-S3240*1 1/4 II		60
F5-S4150*1 1/2 II		48
F5-S4150*2 II		46
F5-S5163*2 II		20

Press Fitting-F5 (U profile)				
	Specifications	pcs/box	pcs/ctn.	
<b>Female straight union</b>				
Made of plated brass with press sleeve. With female-threaded adaptor for screw connections.				
	F5-S1216*1/2F IIA	30	240	
	F5-S1216*3/4F IIA	35	280	
	F5-S1620*1/2F IIA	20	160	
	F5-S1620*3/4F IIA	30	240	
	F5-S2025*3/4F IIA	20	160	
	F5-S2025*1F IIA	15	120	
	F5-S2632*1F IIA	12	96	
	F5-S3240*1 1/2F II			
	F5-S3240*1 1/4F II	12	72	
	F5-S4150*1 1/2F II			40
F5-S5163*2F II				
<b>Equal elbow</b>				
Both ends connected to multi-layer pipes of the same size, made of plated brass with press sleeve.				
	F5-L1216*1216 IIA	24	192	
	F5-L1620*1620 IIA		144	
	F5-L2025*2025 IIA	18	80	
	F5-L2632*2632 IIA	10	45	
	F5-L3240*3240 II			
	F5-L4150*4150 II			
	F5-L5163*5163 II			8
	F5-L6075*6075 II			6
<b>Unequal elbow</b>				
Both ends connected to multi-layer pipes of different size, made of plated brass with press sleeve.				
	F5-L1620*1216 IIA	18	144	

Press Fitting-F5 (U profile)				
	Specifications	pcs/box	pcs/ctn.	
<b>Male elbow</b>				
Made of plated brass with press sleeve. With male-threaded adaptor for screw connections.				
	F5-L1216*1/2 IIA	24	192	
	F5-L1216*3/4 IIA	15	120	
	F5-L1620*1/2 IIA	24	192	
	F5-L1620*3/4 IIA	15	120	
	F5-L2025*3/4 IIA	10	80	
	F5-L2025*1 IIA			96
	F5-L2632*1 IIA			60
<b>Female elbow</b>				
Made of plated brass with press sleeve. With female-threaded adaptor for screw connections.				
	F5-L1216*1/2F IIA	25	200	
	F5-L1216*3/4F IIA *	12	96	
	F5-L1620*1/2F IIA	20	160	
	F5-L1620*3/4F IIA	15	120	
	F5-L2025*3/4F IIA	10	80	
	F5-L3240*1F II			
	F5-L4150*1F II			
<b>Equal tee</b>				
Three ends connected to multi-layer pipes of the same size. Made of plated brass with press sleeve.				
	F5-T1216*1216*1216 IIA	15	120	
	F5-T1418*1418*1418 IIA			
	F5-T1620*1620*1620 IIA	15	120	
	F5-T2025*2025*2025 IIA			64
	F5-T2632*2632*2632 IIA			30
	F5-T3240*3240*3240 II			18
	F5-T4150*4150*4150 II			10
	F5-T5163*5163*5163 II			4
	F5-T6075*6075*6075			3



Press Fitting-F5 (U profile)				
	Specifications	pcs/box	pcs/ctn.	
<b>Unequal tee</b> Three ends connected to multi-layer pipes, with one or two ends different in size from the other end(s). Made of plated brass with press sleeve.				
	F5-T1216*1620*1216 IIA	F5-T2632*1620*2632 IIA	15	120
	F5-T1620*1216*1216 IIA	F5-T2632*2025*2632 IIA	15	120
	F5-T1620*1216*1620 IIA	F5-T3240*1620*3240 II	15	120
	F5-T1620*1620*1216 IIA	F5-T3240*2025*3240 II	15	120
	F5-T1620*2025*1620 IIA	F5-T4150*2025*4150 IIA		96
	F5-T2025*1216*1216 IIA	F5-T4150*2632*4150 IIA		96
	F5-T2025*1216*2025 IIA	F5-T4150*3240*4150 II		70
	F5-T2025*1620*1620 IIA	F5-T5163*2632*5163 IIA		70
	F5-T2025*1620*2025 IIA	F5-T5163*3240*5163 II		70
	F5-T2025*2025*1620 IIA			70
	F5-T2632*1216*2632 IIA			70
	<b>Male tee</b> Made of plated brass, with press sleeve and central male-threaded adaptor for screw connections.			
	F5-T1216*1/2*1216 IIA		15	120
	F5-T1620*1/2*1620 IIA		15	120
<b>Female tee</b> Made of plated brass, with press sleeve and central female-threaded adaptor for screw connections.				
	F5-T1216*1/2F*1216 IIA		15	120
	F5-T1620*1/2F*1620 IIA		10	80
	F5-T1620*3/4F*1620 IIA			96
	F5-T2025*1/2F*2025 IIA			72
	F5-T2025*3/4F*2025 IIA			64
	F5-T3240*3/4F*3240 II			
	F5-T5163*1F*5163 II			8
	F5-T3240*1F*3240 II			
	F5-T4150*3/4F*4150 II			
	F5-T4150*1F*4150 II			

Press Fitting-F5 (U profile)				
	Specifications	pcs/box	pcs/ctn.	
<b>Wall-plated female elbow</b> Multilayer pipe on one end .With female-threaded adaptor for screw connections. Made of plated brass with press sleeve and flange.				
	F5-L1216*1/2F(Z) IA	14	112	
	F5-L1620*1/2F(Z) IA	12	96	
<b>Demountable female straight union</b> For installation with possibility of disassembly. Made of plated brass with press sleeve and detachable screw fitting.				
	F5-S1216*1/2F(H) IIA	40	320	
	F5-S1620*1/2F(H) IIA			
	F5-S1620*3/4F(H) IIA	20	160	
	F5-S2025*3/4F(H) IIA	12	96	
	F5-S2025*1F(H) IIA	15	120	
	F5-S2632*1F(H) IIA		90	
<b>End cap</b> For installation with possibility of disassembly. Made of plated brass with press sleeve and detachable screw fitting.				
	F5-D1216 IIA	75	600	
	F5-D1620 IIA	60	480	

Press Fitting-F5 (U profile)			
	Specifications	pcs/box	pcs/ctn.
<b>Assembly double fittings</b> Assembly fitting can be installed on wall or other fixed objects, in order to provide a stable condition for plumbing system.			
	F5-L1216*1/2F(Z)IA (GZ-201) F5-L1620*1/2F(Z)IA (GZ-201)		40
<b>Double wall-plated female elbow</b> Two ends connected to Multi-layer pipe, the other to 1/2 male thread. Made of brass with press sleeve and double flanges.			
	F5-K1216*1/2F*1216(Z) IIA		90
<b>Copper Spigot Adapter</b> Made of plated brass with press sleeve. Multi-layer pipe on one end and copper pipe on the other.			
	F5-S1216*15 CU2 IIA F5-S1620*22 CU2 IIA F5-S2025*22 CU2 IIA	36 18 15	288 144 120


Compression Fitting-F1C			
	Specifications	pcs/box	pcs/ctn.
<b>Female straight union</b> Made of brass. Multi-layer pipe on one end. With female-threaded adaptor for screw connections. (color: original or nickeled)			
	F1-S1216*1/2F C F1-S1216*3/4F C F1-S1620*1/2F C F1-S1620*3/4F C F1-S2025*3/4F C F1-S2025*1F C F1-S2026*3/4FC F1-S2026*1F C F1-S2632*1F C	30 25 30 20 25 20	240 200 240 160 200 160
<b>Equal elbow</b> Both ends connected to multi-layer pipes of the same size. Made of brass. (color: original or nickeled)			
	F1-L1216*1216 C F1-L1620*1620 C F1-L2025*2025 C F1-L2632*2632 C	15 15 10	120 120 80 48
<b>Male elbow</b> Made of brass. Multi-layer pipe on one end. With male-threaded adaptor for screw connections. (color: original or nickeled)			
	F1-L1216*1/2 C F1-L1620*1/2 C F1-L1620*3/4 C	20 16 12	160 128 128





Compression Fitting-F1C



	Specifications	pcs/box	pcs/ctn.
<b>Equal straight union</b> Both ends connected to multi-layer pipe of the same size. Made of brass. (color: original or nickeled).			
	F1-S1216*1216 C	24	192
	F1-S1418*1418 C		
	F1-S1620*1620 C	20	160
	F1-S2025*2025 C	14	112
	F1-S2632*2632 C		96
<b>Unequal straight union</b> Both ends connected to multi-layer pipes of different sizes. Made of brass. (color: original or nickeled).			
	F1-S1620*1216 C	24	192
<b>Male straight union</b> Made of brass. Multi-layer pipe on one end. With male-threaded adaptor for screw connections. (color: original or nickeled)			
	F1-S1216*1/2 C	36	288
	F1-S1216*3/4 C	25	200
	F1-S1418*1/2 C	24	192
	F1-S1418*3/4 C	24	192
	F1-S1620*1/2 C	24	192
	F1-S1620*3/4 C	24	192
	F1-S2025*3/4 C	16	128
	F1-S2025*1 C	16	128
	F1-S2026*3/4C		108
	F1-S2026*1C		108
F1-S2632*1 C		108	

Compression Fitting-F1C







	Specifications	pcs/box	pcs/ctn.
<b>Female elbow</b> Made of brass. Multi-layer pipe on one end. With female-threaded adaptor for screw connections. (color: original or nickeled)			
	F1-L1216*1/2F C	20	160
	F1-L1418*1/2F C	18	144
	F1-L1620*1/2F C	15	120
	F1-L1620*3/4F C	15	120
	F1-L2025*3/4F C	12	96
F1-L2632*1F C		60	
<b>Equal tee</b> Three ends connected to multi-layer pipes of the same size, made of brass. (color: original or nickeled)			
	F1-T1216*1216*1216 C	12	96
	F1-T1418*1418*1418 C		96
	F1-T1620*1620*1620 C		96
<b>Unequal tee</b> Three ends connected to multi-layer pipes, with one or two ends different in size from the other end(s), made of brass. (color: original or nickeled)			
	F1-T1620*1216*1216 C		
	F1-T1620*1216*1620 C	10	80
	F1-T2025*1620*2025 C		56



Compression Fitting-F1C			
	Specifications	pcs/box	pcs/ctn.
<b>Male tee</b> Made of brass. Central male-threaded adaptor for screw connections. (color: original or nickeled)			
	F1-T1216*1/2*1216 C	15	120
	F1-T1620*1/2*1620 C	10	80
<b>Female tee</b> Made of brass. Central female-threaded adaptor for screw connections. (color: original or nickeled)			
	F1-T1216*1/2F*1216 C	15	120
	F1-T1620*1/2F*1620 C		96
<b>Wall-plated female elbow</b> Multilayer pipe on one end. With female-threaded adaptor for screw connections. Made of brass with flange. (color: original or nickeled)			
	F1-L1216*1/2F(Z) C	14	112
	F1-L1620*1/2F(Z) C	12	96

Compression Fitting-F1C			
	Specifications	pcs/box	pcs/ctn.
<b>End cap</b> The end connected to multi-layer pipe to seal the multi-layer pipe. Made of brass.			
	F1-D1216 C		
<b>Double wall-plated female elbow</b> Two ends connected to Multi-layer pipe, the other to 1/2 male thread. Made of brass with double flanges.			
	F1-K1216*1/2F*1216(Z) C	8	64



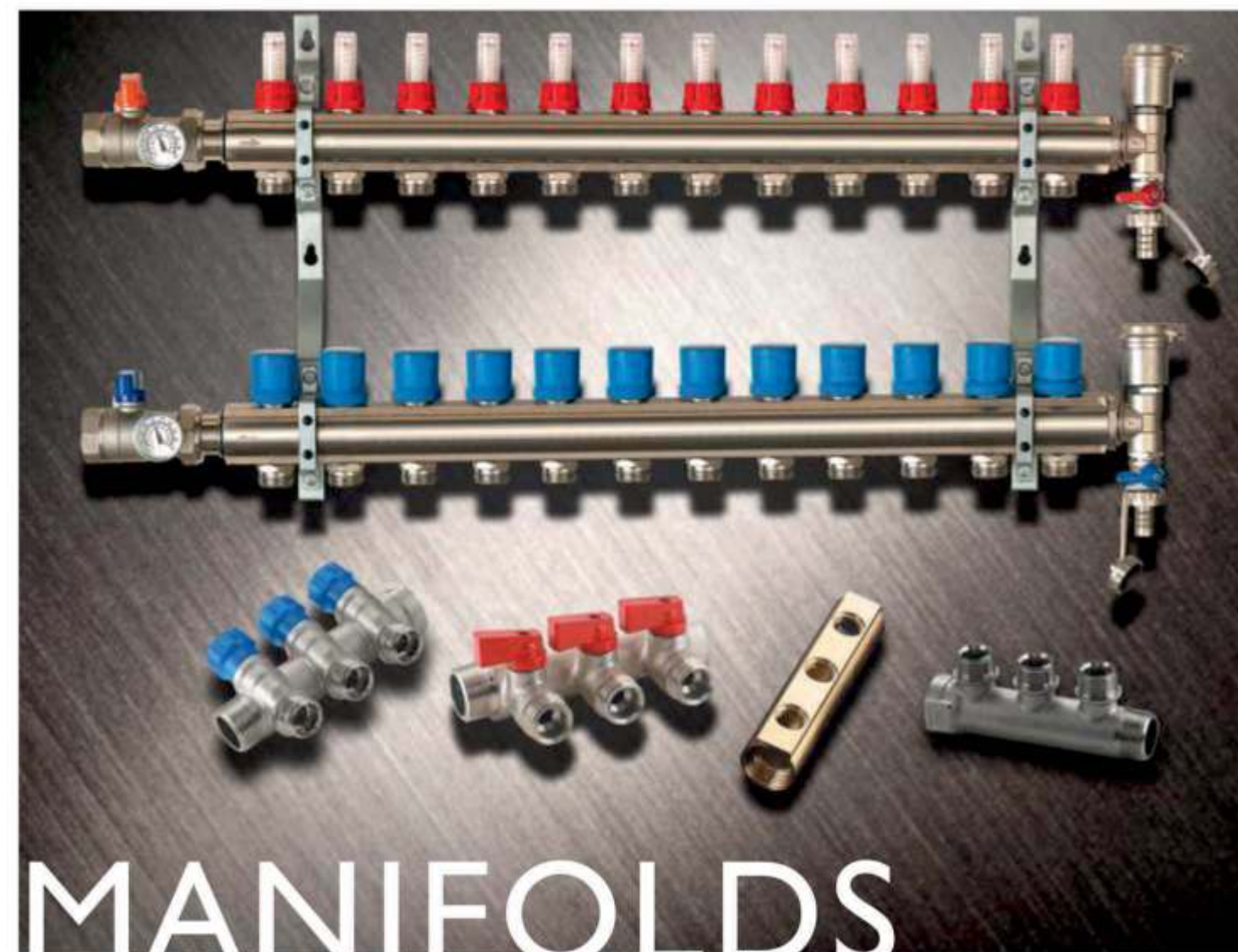
Nipple				Nipple			
	Specifications	pcs/box	pcs/ctn.		Specifications	pcs/box	pcs/ctn.
<b>Equal male nipple</b> Both side connected to female threads of the same size.				<b>Equal female elbow nipple</b> Both side connected to male threads of the same size.			
	S1/2*1/2 S3/4*3/4 S1*1	63 36	504 288		L1/2F*1/2F	32	256
<b>Equal female nipple</b> Both side connected to male threads of the same size.				<b>Equal female tee</b> Three ends connected to male thread of the same size.			
	S1/2F*1/2F	48	384		T1/2F*1/2F*1/2F T3/4F*3/4F*3/4F	24 16	192 96
<b>Unequal demountable nipple</b> Both sides connected to different size threads, one to male thread and the other to female thread.							
	S3/4*1/2F	48	384				
<b>Equal demountable nipple</b> Both ends connected to the same size threads, one to male thread and the other to female thread.							
	S1/2*1/2F	40	320				

Water Supplying				Water Supplying			
	Specifications	pcs/box	pcs/ctn.		Specifications	pcs/box	pcs/ctn.
<b>EB-FF-1201(Brass) / EB-FF-1202(DZR)</b>				<b>EB-FU-1301(Brass) / EB-FU-1302(DZR)</b>			
	1/2 3/4				1216 1620		
<b>EB-MF-1201(Brass) / EB-MF-1202(DZR)</b>				<b>EB-MU-1301(Brass) / EB-MU-1302(DZR)</b>			
	1/2 3/4				1216 1620		
<b>EB-MM-1201(Brass) / EB-MM-1202(DZR)</b>				<b>EB-UU-1301(Brass) / EB-UU-1302(DZR)</b>			
	1/2 3/4				1216 1620		
<b>EB-FF-1301(Brass) / EB-FF-1302(DZR)</b>				<b>EB-NN-1301(Brass) / EB-NN-1302(DZR)</b>			
	1/2 3/4				1216 1620		
<b>EB-MF-1301(Brass) / EB-MF-1302(DZR)</b>				<b>EB-FN-1301(Brass) / EB-FN-1302(DZR)</b>			
	1/2 3/4				1216 1620		
<b>EB-MM-1301(Brass) / EB-MM-1302(DZR)</b>				<b>EB-MN-1301(Brass) / EB-MN-1302(DZR)</b>			
	1/2 3/4				1216 1620		



Water Supplying			
Specifications	pcs/box	pcs/ctn.	
<b>101 Brass gate valves</b> Brass gate valves with female threaded adaptor on both end for screw connections and hand wheel.			
	DN15	16	96
	DN20	12	72
	DN25	9	54
<b>101 Lockable brass gate valves</b> Lockable brass gate valves with female threaded adaptor on both end for screw connections.			
	DN15	20	120
	DN20	16	96
	DN25	12	72
<b>01 Built -in ball valve</b> Built -in ball valve. Connected to multi-layer pipe of the same size on both end .With press sleeve and flat lever.			
	F5-Q1216*1216(A01)	6	36
	F5-Q1418*1418(A01)		
	F5-Q1620*1620(A01)		
	F5-Q2025*2025(A01)		
	F5-Q2632*2632(A01)		
<b>02 Built -in ball valve</b> Built -in ball valve. Connected to multi-layer pipe of the same size on both end.			
	F5-Q1216*1216(A02)	6	36
	F5-Q1418*1418(A02)		
	F5-Q1620*1620(A02)		
	F5-Q2025*2025(A02)		
	F5-Q2632*2632(A02)		
<b>03 Built -in ball valve</b> Built -in ball valve. Connected to multi-layer pipe of the same size on both end.			
	F5-Q1216*1216(A03)	10	60
	F5-Q1418*1418(A03)	18	108
	F5-Q1620*1620(A03)	18	108
	F5-Q2025*2025(A03)	15	90
	F5-Q2632*2632(A03)	10	60

Water Supplying			
Specifications	pcs/box	pcs/ctn.	
<b>Brass ball valves with red cap (Brass color)</b> Brass ball valves with red cap. Connection with female thread and male thread of the same size.(color: original or nickeled)			
	Q1/2"M*1/2"F-DN15		
<b>Brass stop valves</b> Brass stop valves with female threaded adaptor on both end for screw connections and hand wheel. (color: original or nickeled)			
	DN15	15	90
	DN20	10	60
	DN25 ( ▲ )	8	48
<b>Check valves</b> Check valves with female threaded adaptor on both end for screw connections. (color: original or nickeled)			
	DN15	20	120
	DN20	15	90
	DN25	10	60
<b>Picker filter for impurity</b> Filter impurity in the water flow. (color: original or nickeled)			
	DN15	20	120
	DN20	12	72
	DN25	8	48
	DN32 ( ▲ )	4	24



# MANIFOLDS

## Plumbing Manifolds

### Installation Guide



## ►► Plumbing Manifolds

### Brass bar manifold



Supplied as a single manifold, Made of brass.

Specifications	pcs/box	pcs/ctn.
FS-1F-1/2*2(e6)bar		
FS-1F-1/2*3(e6)bar		
FS-1F-1/2*4(e6)bar		
FS-1F-1/2*5(e6)bar		
FS-1F-1/2*6(e6)bar		
FS-3/4F-1/2*2(e6)bar	6	48
FS-3/4F-1/2*3(e6)bar	6	48
FS-3/4F-1/2*4(e6)bar	10	40
FS-3/4F-1/2*5(e6)bar		
FS-3/4F-1/2*6(e6)bar		

FS-3/4-1/2*2(e6)bar		
FS-3/4-1/2*3(e6)bar		
FS-3/4-1/2*4(e6)bar		
FS-3/4-1/2*5(e6)bar		
FS-3/4-1/2*6(e6)bar		

### Connector Core for Brass Bar Manifold



Made of brass, for connecting manifold and Sant-Rifeng multi-layer pipe.

Specifications	pcs/box	pcs/ctn.
F1-S1216*1/2A(B)(e6)		
F1-S1620*1/2A(B)(e6)		

### Connector Core for Brass Bar Manifold



Made of plated brass, for connecting manifold and Sant-Rifeng multi-layer pipe.

Specifications	pcs/box	pcs/ctn.
F5-S1216*1/2 IIA (B) (e6)		
F5-S1620*1/2 IIA (B) (e6)		

### Brass linear manifold



Supplied as a single manifold, made of plated brass. Order adaptors separately for connection to Sant-Rifeng multi-layer pipe. Manifold can be joined to make the required number of port.

Specifications	pcs/box	pcs/ctn.
FS3-3/4-1/2*2	18	18*6
FS3-3/4-1/2*3	12	12*6
FS3-3/4-1/2*4	9	9*6
FS3-1-1/2*2	15	15*6
FS3-1-1/2*3	10	10*6
FS3-1-1/2*4	8	8*6

### Brass manifold with stop valves



Supplied as a single manifold, made of plated brass. Valves allow each circuit to be isolated. Order adaptors separately for connection to Sant-Rifeng multi-layer pipe. Manifold can be joined to make the required number of port.

Specifications	pcs/box	pcs/ctn.
FS4-3/4-1/2*2 (red)		
FS4-3/4-1/2*3 (red)	8	8*6
FS4-3/4-1/2*4 (red)	5	5*6
FS4-3/4-1/2*2 (blue)	10	10*6
FS4-3/4-1/2*3 (blue)		
FS4-3/4-1/2*4 (blue)		
FS4-1-1/2*2 (red)		
FS4-1-1/2*3 (red)		
FS4-1-1/2*4 (red)	5	5*6
FS4-1-1/2*2 (blue)	10	10*6
FS4-1-1/2*3 (blue)	6	6*6
FS4-1-1/2*4 (blue)		

### Brass manifold with ball valves



Supplied as a single manifold, made of plated brass. Valves allow each circuit to be isolated. Order adaptors separately for connection to Sant-Rifeng multi-layer pipe. Manifold can be joined to make the required number of port.

Specifications	pcs/box	pcs/ctn.
FS5-3/4-1/2*2	10	10*6
FS5-3/4-1/2*3	8	8*6
FS5-3/4-1/2*4	5	5*6
FS5-1-3/4*2	7	7*6
FS5-1-3/4*3	4	4*6
FS5-1-3/4*4	3	3*6

Connector core for Brass Bar Manifold



Made of plated brass, for connecting manifold and Sant-Rifeng multi-layer pipe, with detachable screw fitting.

Specifications	pcs/box	pcs/ctn.
F1-C1014*1/2 A		
F1-C1014*1/2 A II		
F1-C1216*1/2 A	72	576
F1-C1216*1/2 A II		
F1-C1216*3/4 A	48	384
F1-C1418*3/4 A	48	384
F1-C1620*3/4 A	48	384
F1-C2025*1 A	24	192

Connector core for Brass Bar Manifold



Made of plated brass, for connecting manifold and Sant-Rifeng multi-layer pipe, with press sleeve.

Specifications	pcs/box	pcs/ctn.
F5-C1216*1/2 IIA	42	336
F5-C1216*3/4 IIA	28	224
F5-C1418*1/2 IIA		
F5-C1418*3/4 IIA		
F5-C1620*3/4 IIA	24	192

End cap for manifolds with o-ring



Made of plated brass, with sealing washer.

Specifications	pcs/box	pcs/ctn.
D1/2A	105	840
D3/4A	54	432
D1A	35	280
D1/2FA		
D3/4FA		
D1FA		

Products-Tools & Accessories

Sant-Rifeng tools, especially for the easy, fast and reliable installation!

Tools				Tools			
	Specifications	pcs/box	pcs/ctn.		Specifications	pcs/box	pcs/ctn.
<b>Pipe cutter</b> Cutting tools for use with Sant-Rifeng multi-layer pipe.				<b>T-reamer</b> Installation tool for bevelling and rounding pipes of size no bigger than 2632.			
	GJIII	1	1*50		JD-3240 JD-4150 JD-5163 JD-6075		
<b>Pipe cutting tool</b> Capable of cutting pipes ranging from 1014 to 6075, normally used for pipe of sizes no smaller than 3240.				<b>Lengthened T-reamer</b> Installation tool for bevelling pipes of sizes no smaller than 3240. Supplied with turning handle.			
	QGQ-75	1	1*32		JD-3240(L) JD-4150(L) JD-5163(L)	10 8 4	10*6 8*6 4*6
<b>Plastic reamer</b> Installation tool for bevelling and rounding pipes of size no bigger than 2632.				<b>Desk reamer</b> Installation tool for bevelling pipes of sizes no smaller than 3240.			
	ZYD2-14-16-18 ZYD2-16-20-25 ZYD2-16-20-26 ZYD2-20-25-32	10	200 10*18 120		JD-40-75(Z)  JDY-3240(Z) JDY-4150(Z) JDY-5163(Z) JDY-6075(Z)		
<b>T-reamer</b> Installation tool for bevelling pipes. Supplied with turning handle.							
	JD-1014 JD-1216 JD-1418 JD-1520 JD-1620 JD-1825 JD-2025 JD-2632	24 24 20 20 20 20 20 15	24*6 24*6 20*6 20*6 20*6 20*6 20*6 15*6				



## Installation Instructions

F5

Tools				Tools			
	Specifications	pcs/box	pcs/ctn.		Specifications	pcs/box	pcs/ctn.
<b>Manual pressing clamp</b> Components can be put together to install corresponding F5 press fitting. With lengthened handle.				<b>Internal bending spring</b> Bending spring for use with Sant-Rifeng multi-layer pipe.			
	SYQ14-20A	1	1*8		WH-1014	40	40*6
	SYQ14-20A 1014	28	28*8		WH-1216	25	25*6
	SYQ14-20A 1216	28	28*8		WH-1418	20	20*6
	SYQ14-20A 1418	28	28*8		WH-1620	15	15*6
	SYQ14-20A 1620	28	28*8		WH-2025	9	9*6
					WH-2632	4	4*6
<b>Separated hydraulic tool</b> used together with 3240-6075 clamp heads and module in F5 fittings installation				<b>External bending spring</b> Bending spring for use with Sant-Rifeng multi-layer pipe.			
	YYF III	1	1		WH-1014 II	6	6*6
	YYQ-25-50 II	10	10		WH-1216 II	4	4*6
	YYQ-63-75 II	10	10		WH-1418 II	4	4*6
	YYQB-3240 II	40	40		WH-1620 II	2	2*6
	YYQB-4150 II	40	40		WH-2025 II		
	YYQB-5163 II	10	10		WH-2632 II		
	YYQB-6075 II	10	10				
<b>Pipe bending tool</b> Bending tools for producing series of identical curves in Sant-Rifeng multi-layer pipe.							
	WGQ(6in1)	1	1*4				



### Step 1: Pipe cutting

Cut the pipe vertically and precisely with a pipe cutter.



### Step 2: Rounding and beveling

Round and bevel the end holes with the Sant-Rifeng reamer.



### Step 3: 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.



### Step 4: 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:

- \* This installation manual is especially for the 14-32(mm) piping systems.
- \* For your safe connection, Sant-Rifeng pipes should be connected with approved fittings recommended by Sant-Rifeng.

►► Systems Overview



**Step 1: Pipe cutting**

1. Cut the pipe vertically and precisely with Sant-Rifeng pipe cutter.



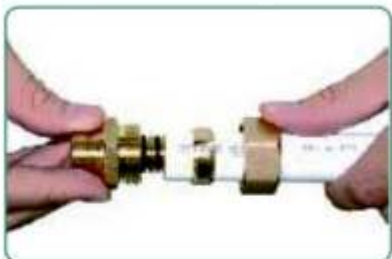
**Step 2: Rounding and beveling**

1. Round and bevel the end holes with the Sant-Rifeng plastic reamer.



**Step 3: Sleeving**

1. 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.



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



**Step 4: Pressing**

1. 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:**

- \* This installation manual is especially for the 14-32(mm) piping systems.
- \* For your safe connection, Sant-Rifeng pipes should be connected with approved fittings recommended by Sant-Rifeng.



● Gas System



● Air-Conditioning System



● Indoor Climate system



● Fire Protection System



● Flexible Connector



# ▶▶ Sant-Rifeng Gas System

## Certifications and standards



Product standard: ISO 17484-1  
AS 4176  
ATS 5200.478



Approved and certified by SAI Global and SGS for gas distribution, Sant-Rifeng Gas System consists of Sant-Rifeng multilayer pipes, brass fittings, Valves & Flexible Hoses. Today's stringent technical standards for gas distribution in residential and commercial buildings, makes multilayer pipes a natural choice. The middle aluminum layer assures no gas permeability. In outdoors installations, the pipes' resistance to rupture and other technical properties permit the use of innovative techniques such as "no sand and no dig" installations.

- Excellent hydraulic performance, high temperature resistant and high pressure resistant due to the aluminum layer.
- No gas leakage, no oxygen permeability, absolutely isolated due the utilization of Sant-Rifeng multilayer pipe.
- Complete burning, saving gas energy.

Simple, fast and economical Installation, compared with metallic piping systems save over 20% on installation times.



NBR (nitrile-butadiene rubber) O-ring



## ▶▶ Sant-Rifeng Air-Conditioning System



Sant-Rifeng newly launches the whole Multilayer Air-Conditioning Piping System. Whatever copper does, Sant-Rifeng Multilayer Pipe does better and for less. The Sant-Rifeng Multilayer Air-Conditioning Piping System offers lower material costs, more efficiency, less environmental pollution .



"Enjoy Healthy life with Rifeng's Pipe"

### Working Condition:

1. Transmits the refrigerant-Freon R-410A and R22.
2. Tmax=60°C Pmax=3.8MPa

## Multilayer Pipes:

1. Material: PEX-AL-PEX
2. Color(External/Internal): golden/transparent
3. Specifications: 0912, 1216, 1620, 1825
4. Tests:  
 Pipe 0912: 5.66Mpa, 1Min at 60°C and 2.72Mpa, 10h at 82°C  
 Pipe 1216: 5.03Mpa, 1Min at 60°C and 2.72Mpa, 10h at 82°C  
 Pipe 1620: 5.02Mpa, 1Min at 60°C and 2.72Mpa, 10h at 82°C  
 Pipe 1825: 5.02Mpa, 1Min at 60°C and 2.72Mpa, 10h at 82°C  
 Sant-Rifeng Multilayer Pipe perfectly passed the strict Process Simulation Testing!

Specifications	Outer Diameter (mm)	Wall Thickness (mm)	Packing Specif. (m)
H-0912	12	1.5	100/50
H-1216	16	2	100/50
H-1620	20	2	100/50
H-1825	25	3.5	100/50



## About the Insulator Pipe:

Material(Internal/External): Polyethylene/Polyethylene Foam  
 Structure: Obturator Foramen  
 Coefficient of thermal conductivity: 0.028k.cal/mhc  
 Water-absorbing rate: ≤0.1g/cm<sup>2</sup>  
 Working Temperature: -40 - 90°C



## Compression Brass Fittings:

- Advantages:
1. Specially designed for Sant-Rifeng multi-layer pipe.
  2. Artistic design with high-pressure and corrosion resistance.
  3. Prevent leaking.
  4. Easily installed and disassembled with spanner.
  5. Can be recycled to save resource.

Specifications
F1-C0912*5/8(18UNF) L
F1-C1216*3/4(16UNF) L
F1-C1620*7/8(14UNF) L
F1-C1825*1 1/16(14UNF) L

## ▶▶ Sant-Rifeng Air-Conditioning System



Sant-Rifeng newly launches the whole Multilayer Air-Conditioning Piping System. Whatever copper does, Sant-Rifeng Multilayer Pipe does better and for less. The Sant-Rifeng Multilayer Air-Conditioning Piping System offers lower material costs, more efficiency, less environmental pollution .



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### Working Condition:

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2. Tmax=60°C Pmax=3.8MPa

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 Pipe 1825: 5.02Mpa, 1Min at 60°C and 2.72Mpa, 10h at 82°C  
 Sant-Rifeng Multilayer Pipe perfectly passed the strict Process Simulation Testing!

Specifications	Outer Diameter (mm)	Wall Thickness (mm)	Packing Specif. (m)
H-0912	12	1.5	100/50
H-1216	16	2	100/50
H-1620	20	2	100/50
H-1825	25	3.5	100/50



## About the Insulator Pipe:

Material(Internal/External): Polyethylene/Polyethylene Foam  
 Structure: Obturator Foramen  
 Coefficient of thermal conductivity: 0.028k.cal/mhc  
 Water-absorbing rate: ≤0.1g/cm<sup>2</sup>  
 Working Temperature: -40 - 90°C

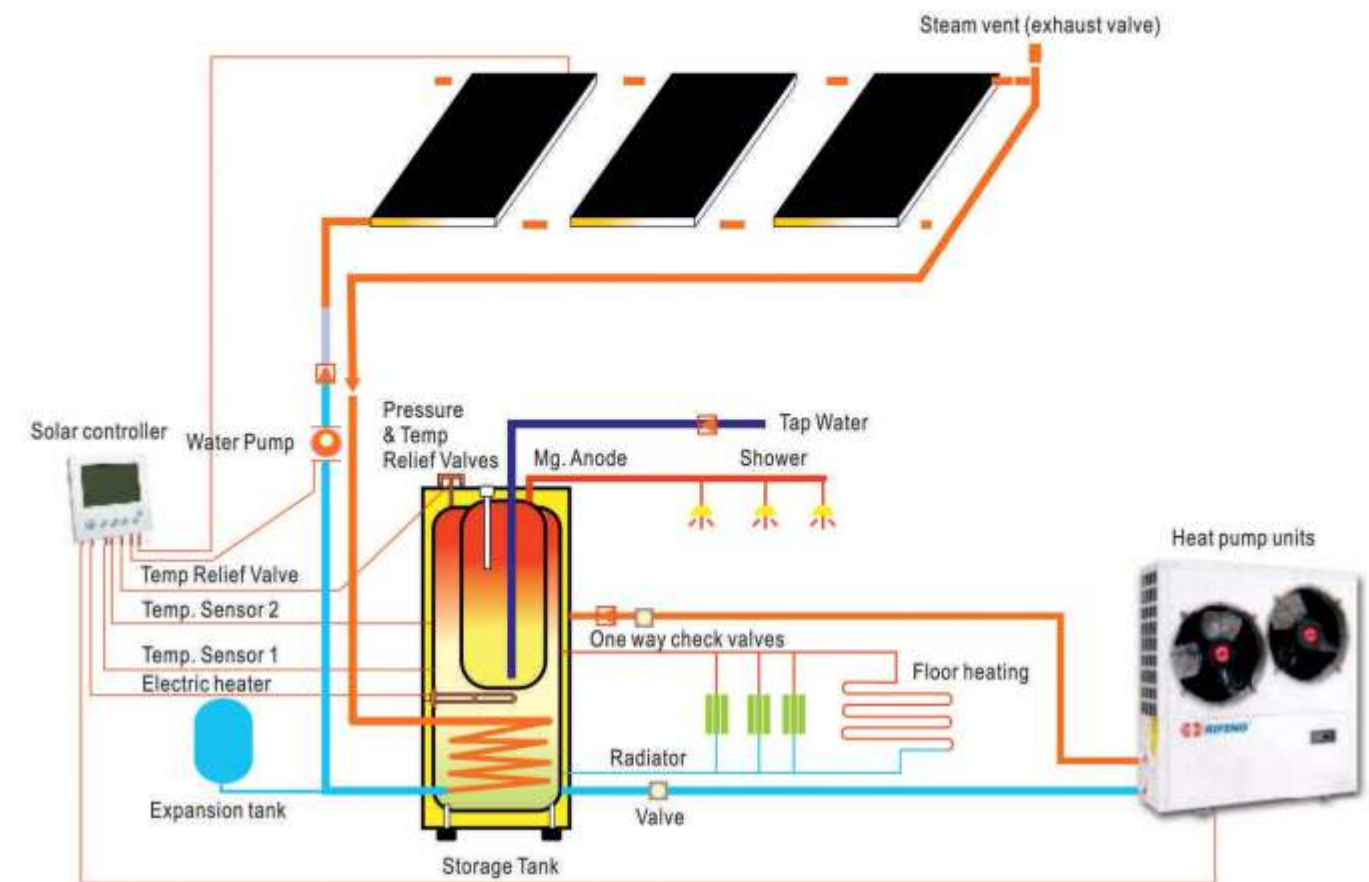


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  5. Can be recycled to save resource.

Specifications
F1-C0912*5/8(18UNF) L
F1-C1216*3/4(16UNF) L
F1-C1620*7/8(14UNF) L
F1-C1825*1 1/16(14UNF) L

▶▶  Sant-Rifeng Indoor Climate System



Sant-Rifeng provides customers with high efficient and environmental friendly heating systems. Besides the Underfloor Heating System and Radiator Heating System, Sant-Rifeng launches the Heat Pump System in 2009.

Up till now, Sant-Rifeng can offer integrated heating systems from pipes, fittings, valves, manifolds to Central Regulation Stations and Heat Pumps. With nearly 15 years' experiences Sant-Rifeng is always in the NO.1 position of the industry in China, you can count on Sant-Rifeng to deliver quality.

By using Sant-Rifeng's heat pump system, it saves about 75% in energy use versus conventional heating systems, and saves more than 40% energy consumption compared with solar heating system.

Sant-Rifeng endeavors to provide our customers with diversity in choices and satisfaction in quality. By integrating our excellent R&D capability and production scale, we are able to provide a range of services from OEM to tailored services for niche markets.

▶▶  **Sant-Rifeng Fire Protection System**



Using proven Sant-Rifeng Multilayer pipe and fittings, Sant-Rifeng Fire Protection System installs with ease and confidence.

Sant-Rifeng Multilayer pipe is stronger, more flexible and installs easier, with fewer connections, than metal pipes.



**Protects your house—protects your family**



▶▶  **Sant-Rifeng Flexible Connector**

Sant-Rifeng is a young, dynamic company to the manufacture of flexible connector, and a pioneer within this sector in China. We manufacture water mixer connector, faucet connector, toilet connector, washing machine connector, dishwasher connector, icemaker connector, shower connector.

The national and international development of Sant-Rifeng is based on constant growth, involving the continual expansion of our facilities to date quality systems. Only in this way can we be completely sure of the safety of the products in the manufacturing process and thus meet all the regulations, certification and quality control procedures relevant to our activity.

Flexible Connector				Flexible Connector			
	Specifications	pcs/box	pcs/ctn.		Specifications	pcs/box	pcs/ctn.
Flexible hoses for connecting with sanitary ware, piping installation, water heater				Flexible hoses for connecting with sanitary ware, piping installation, water heater			
For connecting with sanitary ware, piping installation, water heater.				For connecting with sanitary ware, piping installation, water heater.			
	RF304-3/8H*3/8H-20				RF304-3/8H*3/8M-20		
	RF304-3/8H*3/8H-30				RF304-3/8H*3/8M-30		
	RF304-3/8H*3/8H-40				RF304-3/8H*3/8M-40	20	20*10
	RF304-3/8H*3/8H-50				RF304-3/8H*3/8M-50	20	20*10
	RF304-3/8H*3/8H-60				RF304-3/8H*3/8M-60	20	20*10
	RF304-3/8H*3/8H-80				RF304-3/8H*3/8M-80		
	RF304-3/8H*3/8H-100				RF304-3/8H*3/8M-100		
	RF304-3/8H*3/8H-120				RF304-3/8H*3/8M-120		
	RF304-3/8H*3/8H-150				RF304-3/8H*3/8M-150		
	RF304-3/8H*3/8H-200				RF304-3/8H*3/8M-200		
	RF304-1/2H*1/2H-20				RF304-1/2H*1/2M-20		
	RF304-1/2H*1/2H-30	20	20*15		RF304-1/2H*1/2M-30		
	RF304-1/2H*1/2H-40	20	20*10		RF304-1/2H*1/2M-40	20	20*12
	RF304-1/2H*1/2H-50	20	20*10		RF304-1/2H*1/2M-50	20	20*10
	RF304-1/2H*1/2H-60	20	20*8		RF304-1/2H*1/2M-60	20	20*10
	RF304-1/2H*1/2H-80	20	20*5		RF304-1/2H*1/2M-80		
	RF304-1/2H*1/2H-100	20	20*5		RF304-1/2H*1/2M-100		
	RF304-1/2H*1/2H-120				RF304-1/2H*1/2M-120		
	RF304-1/2H*1/2H-150				RF304-1/2H*1/2M-150		
RF304-1/2H*1/2H-200			RF304-1/2H*1/2M-200				

## ►► Services

### Want a design? Have technical questions? Talk to the experts...

Sant-Rifeng boasts strong capacity for system solution designing and R&D, which is backed by a team of well-qualified and experienced specialists, many of whom had over decades of practice in the industry. Their professional service and our level of expertise will be at customers' disposal when require. So whenever you are in need of a design or having any sorts of technical questions, We are here for you.

### Installation Practice

We are available to provide technical supports and resolve any type of installation problem. There is a range of installation manuals at customers' disposal that offer simpler explanations and instructions on different systems. Helping you to achieve easier and faster installation is our goal.

### Training

Our product is only as good as the technician who installs them. We provide full training course to your staff which allows them to learn more about our system both on theoretical level and during hands-on practice. On-site expertise and training service is also available if necessary. We spare no efforts to ensure that best results can be delivered to our end user.

### The Sant-Rifeng Quality

Across all of Sant-Rifeng's production departments and for all of its production process, Sant-Rifeng introduced the Quality System in compliance with the Standard DIN EN ISO 9001/2000. Germany's TÜV Rheinland Group certified this system in January 2001. So far Sant-Rifeng has acquired 40 product approvals across the world. It is worth mentioning the ISO14001:2004 Environment Certification obtained in March 2005. With over 12 years experience in thermoplastic piping manufacturing, you can count on Sant-Rifeng to delivery Quality.

