

Top Aqua



Top Aqua

鼎致流体控制有限公司

TOP AQUA FLOW CONTROL CO.,LTD

Tel: +86-020-81749697 +86-18665025754

Web: [www.topaquasystem.com](http://www.topaquasystem.com)

Email: [sales@topaquasystem.com](mailto:sales@topaquasystem.com)

Add: Qingshanling Village, Diankou Town, Zhuji City,  
Zhejiang Province, China

# CATALOGUE

A SYSTEM SOLUTION PROVIDER DEDICATED TO PROVIDING SAFE AND COMFORTABLE WATER, GAS AND HEATING SYSTEMS TO TEN MILLIONS OF HOMES AND CUSTOMERS WORLDWIDE

一家致力于为全球数千万家庭和客户提供安全舒适的供水、燃气、采暖系统为目标的系统解决方案供应商

TOP AQUA FLOW CONTROL CO.,LTD

鼎致流体控制有限公司





Top Aqua

# GROUP INTRODUCTION

## 集团简介

A SYSTEM SOLUTION PROVIDER DEDICATED TO PROVIDING SAFE AND COMFORTABLE WATER, GAS AND HEATING SYSTEMS TO TEN MILLIONS OF HOMES AND CUSTOMERS WORLD WIDE

一家致力于为全球数千万家庭和客户提供安全舒适的供水、燃气、采暖系统为目标的系统解决方案供应商

鼎致流体控制有限公司是一家致力于为全球数千万家庭和客户提供安全舒适的供水、燃气、采暖系统为目标的系统解决方案供应商，我们在为客户提供上乘的质量，合理的价格，准时的交货，优质的服务同时，大力地带领国内外研发团队，不断创新，追求更简单高效的安装连接方案，简单，安全可持续，是我们一直以来的奋斗目标！

TOP AQUA FLOW CONTROL CO., LTD is a system solution provider located in Zhejiang Province, we provide safe and comfortable water, gas and heating systems for ten millions of families and customers around the world. Our mission is providing excellent quality, reasonable price, punctual delivery and high quality service to our customers, we are supported by a team of highly qualified international experts that provide designing, planning and technical support to our customers, our products can be increasingly more innovative, safer, more reliable, energy-saving and easier to install!





# PRODUCT CATALOG

**05-06**

Tubes

**10-11**

PPSU Press Fittings (Multi profile)

**15-16**

Press Fittings For Gas System

**19-22**

Fittings For PEX Pipe

**31-35**

Valves For Water

**37-40**

Thermostatic Valves

**42**

Tools And Accessories

**47-48**

Inspection Center Lab

**07-09**

Press Fittings (Multi Profile)

**12-14**

Press Fittings (U Profile)

**17-18**

Compression Fittings

**23-30**

Distribution Manifolds

**36**

Valves For Gas

**41**

Temperature Control Elements

**43-46**

Instruction

**49-50**

Certifications

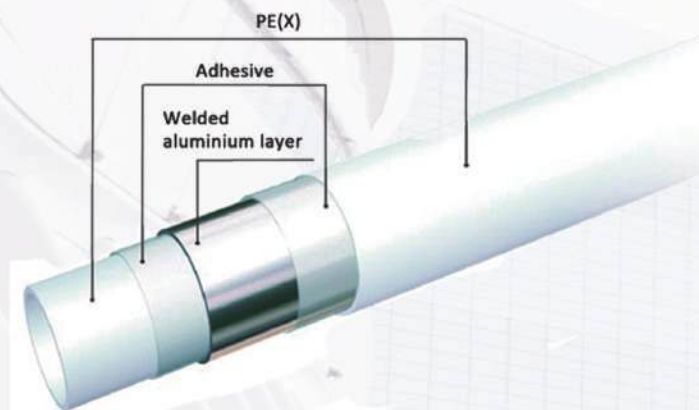


# TUBES

## Multilayer Pipes

### TOP AQUA MULTILAYER PIPES

Top Aqua multilayer pipe is a five-layer composite pipe which combines the advantages of metal and plastic pipe and eliminates the disadvantages of both materials. The aluminium layer can prevent oxygen/gas from permeating into pipe. The PAP pipe can compensate and reduce snap-back force and heat expansion with changes of temperature. With better performance in corrosion resistance and installation, PAP pipe is widely used for plumbing, heating and gas transportation systems in European, American, Australian and other markets. We also can manufacture the PEX pipe with EVOH and Anti-UV.



Top Aqua multilayer pipes include PEX (EVOH), PEX/AL/PEX, PERT/AL/PERT and HDPE/AL/HDPE. PEX/AL/PEX pipe and PERT/AL/PERT pipe are mainly used for plumbing system, heating system and gas transportation. HDPE/AL/HDPE pipe is specially used for gas transportation system.

TOP AQUA multilayer pipes	Specification	Working temperature	Working pressure	Usage
	PEX/AL/PEX	-40°C-95°C	≤1.0Mpa	Plumbing/Heating/Gas
	PERT/AL/PERT	-40°C-95°C	≤1.0Mpa	Plumbing/Heating/Gas
	HDPE/AL/HDPE	-40°C-95°C	≤0.4Mpa	Gas
	PEX/AL/PEX	60°C	≤3.8Mpa	Airconditioning



PEX (EVOH/Anti-UV)

SPECIFICATION	PACKAGE SPECIFIC(M)	COLOR(OUT/IN)
16*2.0mm	200/100	white/transparent blue/transparent red/transparent orange/orange
18*2.0mm	200/100	
20*2.0mm	200/100	
25*2.5mm	100/50	
32*3.0mm	100/50	



PEX/AL/PEX

SPECIFICATION	PACKAGE SPECIFIC(M)	COLOR(OUT/IN)
40*4.0mm	6	white/transparent
50*4.5mm	6	
63*6.0mm	6	
75*7.5mm	6	



PERT/AL/PERT

SPECIFICATION	PACKAGE SPECIFIC(M)	COLOR(OUT/IN)
16*2.0mm	200/100	white/transparent
18*2.0mm	200/100	
20*2.0mm	200/100	
25*2.5mm	100/50	
32*3.0mm	100/50	
40*4.0mm	6	
50*4.5mm	6	
63*6.0mm	6	
75*7.5mm	6	



HDPE/AL/HDPE

SPECIFICATION	PACKAGE SPECIFIC(M)	COLOR(OUT/IN)
16*2.0mm	200/100	yellow/transparent white/transparent
18*2.0mm	200/100	
20*2.0mm	200/100	
25*2.5mm	100/50	
32*3.0mm	100/50	



# FITTINGS

Multi-Profile

## Press Fittings [U+TH+RFz]



Press fittings are designed and manufactured for TOP AQUA PAP pipes. Made of CW617N, CW602N or CW511 brass.

### HIGH QUALITY SEALING MATERIAL

F10 is a new multi-profile press fitting system with leakage indication function for pipes with diameter 16\*2.0mm up to 75\*7.5mm, which is tested and guaranteed to be used with 3 different pressing profiles, U+TH+RFz, connecting with the multilayer pipe. This new system facilitates efficient installation for the plumbers.

### F10 TECHNICAL FEATURES

Used with 3 different pressing profiles: U, TH, RFz

With leakage indication function

Maximum operating temperature 95°C

Maximum working pressure 10 bar

CW617N, CW602N or CW511 brass, half-nickel plated or brass color

Two EPDM O-rings, and SUS 304 sleeve



COUPLING

SPECIFICATION		
F10-S1216*1216	F10-S1418*1418	F10-S1620*1620
F10-S2025*2025	F10-S2632*2632	F10-S3240*3240
F10-S4150*4150	F10-S5163*5163	F10-S6075*6075



EQUAL ELBOW

SPECIFICATION		
F10-L1216*1216	F10-L1418*1418	F10-L1620*1620
F10-L2025*2025	F10-L2632*2632	F10-L3240*3240
F10-L4150*4150	F10-L5163*5163	F10-L6075*6075



REDUCER

SPECIFICATION			
F10-S1620*1216	F10-S2025*1216	F10-S2025*1620	F10-S2632*1620
F10-S2632*2025	F10-S3240*2025	F10-S3240*2632	F10-S4150*2632
F10-S4150*3240	F10-S5163*3240	F10-S5163*4150	F10-S6075*4150



MALE STRAIGHT UNION

SPECIFICATION			
F10-S1216*1/2	F10-S1620*1/2	F10-S1620*3/4	F10-S2025*3/4
F10-S2025*1	F10-S2632*1	F10-S3240*1	F10-S3240*1 1/4
F10-S3240*1 1/2	F10-S4150*1 1/2	F10-S5163*2	F10-S6075*2 1/2



FEMALE STRAIGHT UNION

SPECIFICATION		
F10-S1216*1/2F	F10-S1620*1/2F	F10-S1620*3/4F
F10-S2025*3/4F	F10-S2025*1F	F10-S2632*1F
F10-S3240*1 1/4F	F10-S3240*1 1/2F	F10-S4150*1 1/2F



UNEQUAL ELBOW

SPECIFICATION		
F10-L1620*1216	F10-L2025*1620	F10-L2632*2025
F10-L3240*2025	F10-L3240*2632	F10-L4150*3240





MALE ELBOW

SPECIFICATION			
F10-L1216*1/2	F10-L1620*1/2	F10-L1620*3/4	F10-L2025*3/4
F10-L2025*1	F10-L2632*1	F10-L3250*1 1/4	F10-L4150*1 1/2



FEMALE ELBOW

SPECIFICATION			
F10-L1216*1/2F	F10-L1620*1/2F	F10-L1620*3/4F	F10-L2025*3/4F
F10-L2025*1F	F10-L2632*1F	F10-L3240*1 1/2F	F10-L4150*2F



EQUAL TEE

SPECIFICATION		
F10-T1216*1216*1216	F10-T1418*1418*1418	F10-T1620*1620*1620
F10-T2025*2025*2025	F10-T2632*2632*2632	F10-T3240*3240*3240
F10-T4150*4150*4150	F10-T5163*5163*5163	F10-T6075*6075*6075



UNEQUAL TEE

SPECIFICATION			
F10-T1620*1216*1620	F10-T2025*1620*2025	F10-T2632*1620*2632	F10-T2632*2025*2632
F10-T3240*2632*3240	F10-T4150*3240*4150	F10-T5163*4150*5163	F10-T6075*5163*6075



FEMALE TEE

SPECIFICATION		
F10-T1216*1/2F*1216	F10-T1620*1/2F*1620	F10-T2025*3/4F*2025
F10-T2025*1F*2025	F10-T2632*1F*2632	F10-T3240*1F*3240
F10-T4150*1F*4150	F10-T5163*2F*5163	F10-T6075*2F*6075



DEMOUNTABLE FEMALE STRAIGHT UNION

SPECIFICATION		
F10-S1216*1/2F(H)	F10-S1620*1/2F(H)	F10-S1620*3/4F(H)
F10-S2025*3/4F(H)	F10-S2025*1F(H)	F10-S2632*1F(H)



MALE TEE

SPECIFICATION	
F10-T1216*1/2*1216	F10-T1620*1/2*1620
F10-T2025*3/4*2025	F10-T2632*1*2632



END CAP

SPECIFICATION	
F10-D1216	F10-D1620

# PPSU MULTIPRESS FITTING

## U-TH-RFz



TOP AQUA PPSU multipress fittings are durable and corrosion resistant, providing an ideal solution for aggressive water environments. It could be pressed with U/TH/RFz profiles at the same time, making installation easy and efficient. At the same time, it also has the function of leak before press.

As a material with excellent properties, PPSU is mainly used for potable water supply. We believe that stable, hygienic, and high-performance PPSU fittings will be an excellent choice for your next piping system.

PPSU raw material has multiple significant advantages, including high hydrolytic stability, high temperature resistance, strong rigidity, safety and non-toxicity. PPSU is a kind of thermal plastic with high hydrolytic stability and can withstand high temperature. Compared to traditional brass products, PPSU products are more environmentally friendly and more economic in prices.



Straight union

SPECIFICATION		
PPSU-F10-S1216*1216	PPSU-F10-S1620*1620	PPSU-F10-S2025*2025
PPSU-F10-S2632*2632	PPSU-F10-S1216*1620	PPSU-F10-S1620*2025
PPSU-F10-S2025*2632	PPSU-F10-S1216*2025	PPSU-F10-S1620*2632



Elbow

SPECIFICATION		
PPSU-F10-L1216*1216	PPSU-F10-L1620*1620	PPSU-F10-L2025*2025
PPSU-F10-L2632*2632	PPSU-F10-L1216*1620	PPSU-F10-L1620*2025
PPSU-F10-L2025*2632	PPSU-F10-L1216*2025	PPSU-F10-L1620*2632





Male Straight Union

SPECIFICATION		
PPSU-F10-S1216*1/2	PPSU-F10-S1216*3/4	PPSU-F10-S1620*1/2
PPSU-F10-S1620*3/4	PPSU-F10-S2025*1/2	PPSU-F10-S2025*3/4
PPSU-F10-S2025*1	PPSU-F10-S2632*3/4	PPSU-F10-S2632*1



Tee

SPECIFICATION	
PPSU-F10-T1216*1216*1216	PPSU-F10-T1620*1620*1620
PPSU-F10-T2025*2025*2025	PPSU-F10-T2026*2026*2026
PPSU-F10-T2632*2632*2632	PPSU-F10-T1216*1620*1216
PPSU-F10-T1620*1216*1620	PPSU-F10-T1620*1216*1216
PPSU-F10-T1620*1620*1216	PPSU-F10-T1620*2025*1620
PPSU-F10-T2025*1216*2025	PPSU-F10-T2025*1620*2025
PPSU-F10-T2025*1620*1620	PPSU-F10-T2025*2025*1620
PPSU-F10-T2632*1216*2632	PPSU-F10-T2632*1620*2632
PPSU-F10-T2632*2025*2632	PPSU-F10-T2632*2026*2632



Female straight union

SPECIFICATION	
PPSU-F10-S1216*1/2F	PPSU-F10-S1216*3/4F
PPSU-F10-S1620*1/2F	PPSU-F10-S1620*3/4F
PPSU-F10-S2025*1/2F	PPSU-F10-S2025*3/4F
PPSU-F10-S2025*1F	PPSU-F10-S2632*1F



Female wall plated elbow

SPECIFICATION	
PPSU-F10-L1216*1/2F (Z)	PPSU-F10-L1620*1/2F (Z)

# FITTINGS

## Press Fittings [ U Profile ]



Press fittings are designed and manufactured for TOP AQUA PAP pipes. Made of CW617N, CW602N or CW511 brass.

### HIGH QUALITY SEALING MATERIAL

For plumbing system, the material of O-rings in our press fittings is EPDM. Its excellent specialty of anti-aging, well rebound and long lifetime performance ensures no leakage occur. For gas system, the material of O-rings is NBR, which is specially used of sealing in gas transportation. Its excellent specialty of anti-aging, well rebound and long lifetime performance ensures no leakage occur.

### EASY INSTALLATION APPLICATION

Using our press tool can easily connect the pipes with fittings and valves.

### WIDE RANGE OF USAGES

Press fittings are widely used for connecting PAP pipes in plumbing system and gas system.

### WIDE RANGE OF SPECIFICATION

Top Aqua press fittings cover from 1216mm to 6075mm, offer best one-stop purchasing service.





COUPLING

SPECIFICATION		
F5-S1216*1216	F5-S1418*1418	F5-S1620*1620
F5-S2025*2025	F5-S2632*2632	F5-S3240*3240
F5-S4150*4150	F5-S5163*5163	F5-S6075*6075



EQUAL ELBOW

SPECIFICATION		
F5-L1216*1216	F5-L1418*1418	F5-L1620*1620
F5-L2025*2025	F5-L2632*2632	F5-L3240*3240
F5-L4150*4150	F5-L5163*5163	F5-L6075*6075



REDUCER

SPECIFICATION			
F5-S1620*1216	F5-S2025*1216	F5-S2025*1620	F5-S2632*1620
F5-S2632*2025	F5-S3240*2025	F5-S3240*2632	F5-S4150*2632
F5-S4150*3240	F5-S5163*3240	F5-S5163*4150	F5-S6075*4150



MALE STRAIGHT UNION

SPECIFICATION			
F5-S1216*1/2	F5-S1620*1/2	F5-S1620*3/4	F5-S2025*3/4
F5-S2025*1	F5-S2632*1	F5-S3240*1	F5-S3240*1 1/4
F5-S3240*1 1/2	F5-S4150*1 1/2	F5-S5163*2	F5-S6075*2 1/2



FEMALE STRAIGHT UNION

SPECIFICATION			
F5-S1216*1/2F	F5-S1620*1/2F	F5-S1620*3/4F	F5-S2025*3/4F
F5-S2025*1F	F5-S2632*1F	F5-S3240*1 1/4F	F5-S3240*1 1/2F
F5-S4150*1 1/2F	F5-S4150*2F	F5-S5163*2F	F5-S6075*2F



UNEQUAL ELBOW

SPECIFICATION		
F5-L1620*1216	F5-L2025*1620	F5-L2632*2025
F5-L3240*2025	F5-L3240*2632	F5-L4150*3240



END CAP

SPECIFICATION	
F5-D1216	F5-D1620
F5-D2025	F5-D2632



MALE ELBOW

SPECIFICATION			
F5-L1216*1/2	F5-L1620*1/2	F5-L1620*3/4	F5-L2025*3/4
F5-L2025*1	F5-L2632*1	F5-L3240*1 1/2	F5-L4150*2



FEMALE ELBOW

SPECIFICATION			
F5-L1216*1/2F	F5-L1620*1/2F	F5-L1620*3/4F	F5-L2025*3/4F
F5-L2025*1F	F5-L2632*1F	F5-L3240*1 1/2F	F5-L4150*2F



WALL PLATED FEMALE ELBOW

SPECIFICATION		
F5-L1216*1/2F(Z)	F5-L1620*1/2F(Z)	F5-L2025*3/4F(Z)



DOUBLE WALL PLATED FEMALE ELBOW

SPECIFICATION	
F5-K1216*1/2F(Z)*1216	F5-K1620*1/2F(Z)*1620



FEMALE TEE

SPECIFICATION		
F5-T1216*1/2F*1216	F5-T1620*1/2F*1620	F5-T2025*3/4F*2025
F5-T2025*1F*2025	F5-T2632*1F*2632	F5-T3240*1 1/2F*3240
F5-T4150*1 1/2F*4150	F5-T5163*2F*5163	F5-T6075*2F*6075



MALE TEE

SPECIFICATION		
F5-T1216*1/2*1216	F5-T1620*1/2*1620	F5-T2025*3/4*2025
F5-T2025*1*2025	F5-T2632*1*2632	F5-T3240*1*3240
F5-T4150*1*4150	F5-T5163*2*5163	F5-T6075*2*6075



EQUAL TEE

SPECIFICATION		
F5-T1216*1216*1216	F5-T1418*1418*1418	F5-T1620*1620*1620
F5-T2025*2025*2025	F5-T2632*2632*2632	F5-T3240*3240*3240
F5-T4150*4150*4150	F5-T5163*5163*5163	F5-T6075*6075*6075



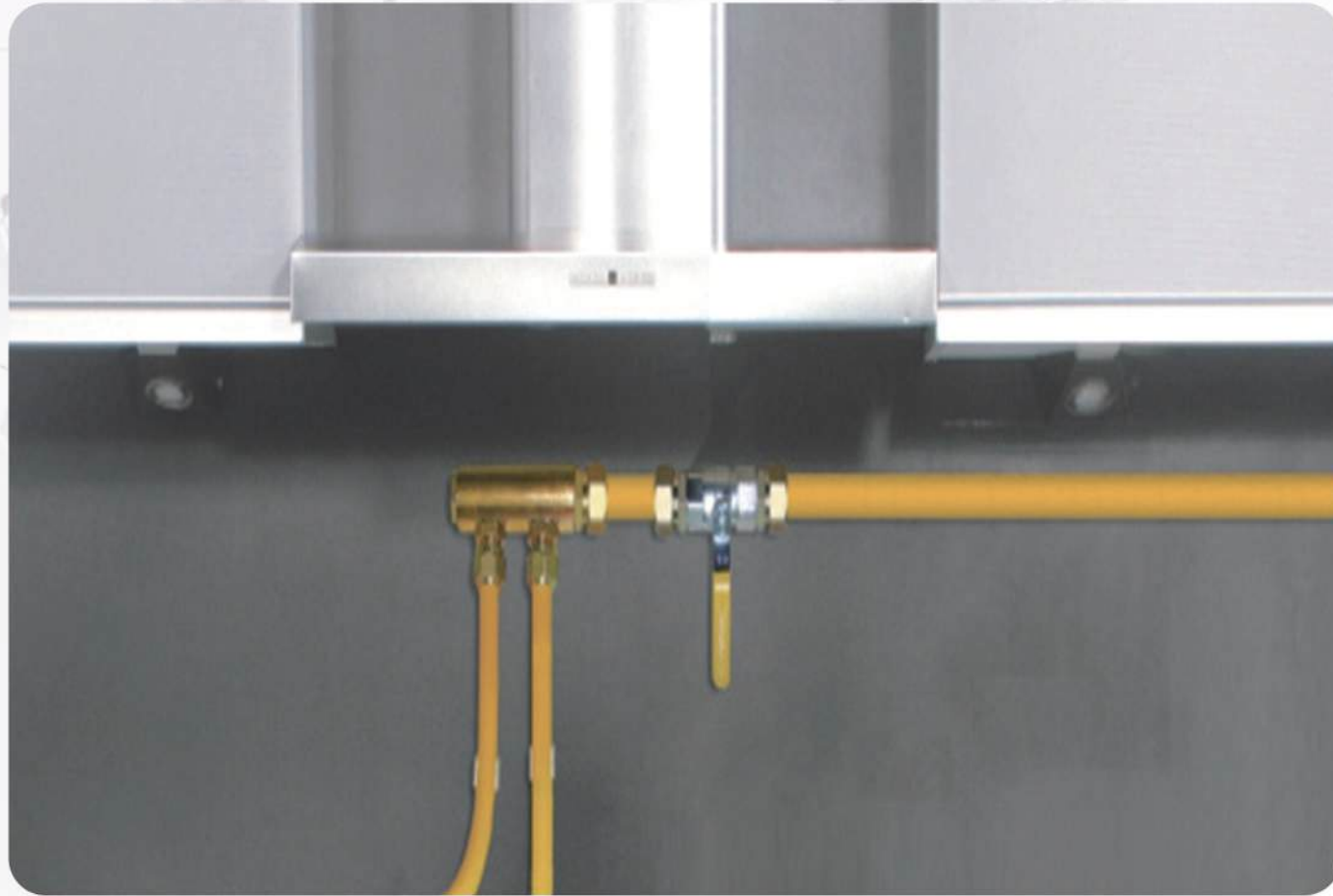
UNEQUAL TEE

SPECIFICATION			
F5-T1620*1216*1620	F5-T2025*1620*2025	F5-T2632*1620*2632	F5-T2632*2025*2632
F5-T3240*2632*3240	F5-T4150*3240*4150	F5-T5163*4150*5163	F5-T6075*5163*6075



# FITTINGS

## Press Fittings For Gas System



COUPLING

SPECIFICATION			
F4-S1216*1216	F4-S1620*1620	F4-S2025*2025	F4-S2632*2632



EQUAL ELBOW

SPECIFICATION	
F4-L1216*1216	F4-L1620*1620
F4-L2025*2025	F4-L2632*2632



MALE ELBOW

SPECIFICATION			
F4-L1216*1/2	F4-L1620*1/2	F4-L2025*3/4	F4-L2632*1



FEMALE STRAIGHT UNION

SPECIFICATION			
F4-S1216*1/2F	F4-S1620*1/2F	F4-S2025*3/4F	F4-S2632*1F



FEMALE ELBOW

SPECIFICATION			
F4-L1216*1/2F	F4-L1620*1/2F	F4-L2025*3/4F	F4-L2632*1F



EQUAL TEE

SPECIFICATION	
F4-T1216*1216*1216	F4-T1620*1620*1620
F4-T2025*2025*2025	F4-T2632*2632*2632



MALE TEE

SPECIFICATION	
F4-T1216*1/2*1216	F4-T1620*1/2*1620
F4-T2025*3/4*2025	F4-T2632*1*2632



FEMALE TEE

SPECIFICATION	
F4-T1216*1/2F*1216	F4-T1620*1/2F*1620
F4-T2025*3/4F*2025	F4-T2632*1F*2632



WALL PLATED FEMALE ELBOW

SPECIFICATION	
F4-L1216*1/2F(Z)	F4-L1620*1/2F(Z)



DOUBLE WALL PLATED FEMALE ELBOW

SPECIFICATION	
F4-K1216*1/2F(Z)*1216	F4-K1620*1/2F(Z)*1620



# FITTINGS

## Compression Fittings



### ADVANTAGES

- 1 Easily installed and disassembled by a spanner
- 2 Can be recycled to save resource
- 3 EPDM or NBR O-rings can ensure no leakage occur.



COUPLING

SPECIFICATION	
F1-S1216*1216	F1-S1620*1620
F1-S2025*2025	F1-S2632*2632



UNEQUAL STRAIGHT UNION

SPECIFICATION	
F1-S1620*1216	F1-S2025*1620
F1-S2632*1620	F1-S2632*2025



FEMALE STRAIGHT UNION

SPECIFICATION		
F1-S1216*1/2F	F1-S1620*1/2F	F1-S2025*3/4F
F1-S2025*1F	F1-S2632*3/4F	F1-S2632*1F



MALE STRAIGHT UNION

SPECIFICATION		
F1-S1216*1/2	F1-S1620*1/2	F1-S2025*3/4
F1-S2025*1	F1-S2632*3/4	F1-S2632*1



EQUAL ELBOW

SPECIFICATION	
F1-L1216*1216	F1-L1620*1620
F1-L2025*2025	F1-L2632*2632



FEMALE ELBOW

SPECIFICATION		
F1-L1216*1/2F	F1-L1620*1/2F	F1-L2025*3/4F
F1-L2025*1F	F1-L2632*3/4F	F1-L2632*1F



MALE ELBOW

SPECIFICATION		
F1-L1216*1/2	F1-L1620*1/2	F1-L2025*3/4
F1-L2025*1	F1-L2632*3/4	F1-L2632*1



WALL PIATED FEMALE ELBOW

SPECIFICATION	
F1-L1216*1/2F(Z)	F1-L1620*1/2F(Z)



FEMALE TEE

SPECIFICATION	
F1-T1216*1/2F*1216	F1-T1620*1/2F*1620
F1-T2025*1F*2025	F1-T2632*1F*2632



MALE TEE

SPECIFICATION	
F1-T1216*1/2*1216	F1-T1620*1/2*1620



EQUAL TEE

SPECIFICATION	
F1-T1216*1216*1216	F1-T1620*1620*1620
F1-T2025*2025*2025	F1-T2632*2632*2632



UNEQUAL TEE

SPECIFICATION	
F1-T1620*1216*1620	F1-T2025*1620*2025
F1-T2632*1620*2632	F1-T2632*2025*2632
F1-T2025*1620*1620	F1-T2632*2025*2025



# FITTINGS

## PF2 Fittings For PEX-A pipe



COUPLING

SPECIFICATION(S3.2)	
PF2-S16(2.2)*16(2.2)	PF2-S20(2.8)*20(2.8)
PF2-S25(3.5)*25(3.5)	PF2-S32(4.4)*32(4.4)



REDUCER

SPECIFICATION(S3.2)	
PF2-S20(2.8)*16(2.2)	PF2-S25(3.5)*20(2.8)
PF2-S32(4.4)*20(2.8)	PF2-S32(4.4)*25(3.5)



MALE STRAIGHT UNION

SPECIFICATION(S3.2)		
PF2-S16(2.2)*1/2	PF2-S20(2.8)*1/2	PF2-S25(3.5)*3/4
PF2-S25(3.5)*1	PF2-S32(4.4)*3/4	PF2-S32(4.4)*1



FEMALE STRAIGHT UNION

SPECIFICATION(S3.2)		
PF2-S16(2.2)*1/2F	PF2-S20(2.8)*1/2F	PF2-S25(3.5)*3/4F
PF2-S25(3.5)*1F	PF2-S32(4.4)*3/4F	PF2-S32(4.4)*1F



FEMALE ELBOW

SPECIFICATION(S3.2)		
PF2-L16(2.2)*1/2F	PF2-L20(2.8)*1/2F	PF2-L25(3.5)*3/4F
PF2-L25(3.5)*1F	PF2-L32(4.4)*3/4F	PF2-L32(4.4)*1F



MALE ELBOW

SPECIFICATION(S3.2)		
PF2-L16(2.2)*1/2	PF2-L20(2.8)*1/2	PF2-L25(3.5)*3/4
PF2-L25(3.5)*1	PF2-L32(4.4)*3/4	PF2-L32(4.4)*1



EQUAL TEE

SPECIFICATION(S3.2)	
PF2-T16(2.2)*16(2.2)*16(2.2)	PF2-T20(2.8)*20(2.8)*20(2.8)
PF2-T25(3.5)*25(3.5)*25(3.5)	PF2-T32(4.4)*32(4.4)*32(4.4)



UNEQUAL TEE

SPECIFICATION(S3.2)		
PF2-T20(2.8)*16(2.2)*20(2.8)	PF2-T25(3.5)*20(2.8)*25(3.5)	PF2-T32(4.4)*25(3.5)*32(4.4)
PF2-T20(2.8)*20(2.8)*16(2.2)	PF2-T25(3.5)*25(3.5)*20(2.8)	PF2-T32(4.4)*32(4.4)*25(3.5)



WALL-PLATED FEMALE ELBOW

SPECIFICATION(S3.2)	
PF2-L16(2.2)*1/2F(Z)	PF2-L20(2.8)*1/2F(Z)



END CAP

SPECIFICATION(S3.2)	
PF2-D16(2.2)	PF2-D20(2.8)
PF2-D25(3.5)	PF2-D32(4.4)

# FITTINGS

## PF3 Fittings For PEX pipe



COUPLING

SPECIFICATION(S5)		
PF3-S16(1.8)*16(1.8)	PF3-S20(1.9)*20(1.9)	PF3-S25(2.3)*25(2.3)



REDUCER

SPECIFICATION(S5)		
PF3-S20(1.9)*16(1.8)	PF3-S25(2.3)*16(1.8)	PF3-S25(2.3)*20(1.9)



MALE STRAIGHT UNION

SPECIFICATION(S5)		
PF3-S16(1.8)*1/2	PF3-S20(1.9)*1/2	PF3-S25(2.3)*3/4





EQUAL ELBOW

SPECIFICATION(S5)		
PF3-L16(1.8)*16(1.8)	PF3-L20(1.9)*20(1.9)	PF3-L25(2.3)*25(2.3)



FEMALE ELBOW

SPECIFICATION(S5)		
PF3-L16(1.8)*1/2F	PF3-L20(1.9)*1/2F	PF3-L25(2.3)*3/4F



MALE ELBOW

SPECIFICATION(S5)		
PF3-L16(1.8)*1/2	PF3-L20(1.9)*1/2	PF3-L25(2.3)*3/4



EQUAL TEE

SPECIFICATION(S5)		
PF3-T16(1.8)*16(1.8)*16(1.8)	PF3-T20(1.9)*20(1.9)*20(1.9)	PF3-T25(2.3)*25(2.3)*25(2.3)



WALL-PLATED FEMALE ELBOW

SPECIFICATION(S5)	
PF3-L16(1.8)*1/2F(Z)	PF3-L20(1.9)*1/2F(Z)



FEMALE TEE

SPECIFICATION(S5)		
PF3-T16(1.8)*1/2F*16(1.8)	PF3-T20(1.9)*1/2F*20(1.9)	PF3-T25(2.3)*3/4F*25(2.3)



MALE TEE

SPECIFICATION(S5)		
PF3-T16(1.8)*1/2*16(1.8)	PF3-T20(1.9)*1/2*20(1.9)	PF3-T25(2.3)*3/4*25(2.3)

# PEX-A Expansion Fittings



MALE ADAPTOR

SPECIFICATION		
EF1-S16*1/2	EF1-S16*3/4	EF1-S20*1/2
EF1-S20*3/4	EF1-S25*3/4	EF1-S32*1



FEMALE ADAPTOR

SPECIFICATION		
EF1-S16*1/2F	EF1-S16*3/4F	EF1-S20*1/2F
EF1-S20*3/4F	EF1-S25*3/4F	EF1-S32*1F



DEMOUNTABLE FEMALE COUPLER

SPECIFICATION		
EF1-S16*1/2F (H)	EF1-S16*3/4F (H)	EF1-S20*1/2F (H)
EF1-S20*3/4F (H)	EF1-S25*3/4F (H)	EF1-S32*1F (H)



FEMALE THREAD ELBOW

SPECIFICATION		
EF1-L16*1/2F	EF1-L16*3/4F	EF1-L20*1/2F
EF1-L20*3/4F	EF1-L25*3/4F	EF1-L32*1F



MALE THREAD ELBOW

SPECIFICATION		
EF1-L16*1/2	EF1-L16*3/4	EF1-L20*1/2
EF1-L20*3/4	EF1-L25*3/4	EF1-L32*1



DEMOUNTABLE FEMALE ELBOW

SPECIFICATION		
EF1-L16*1/2F (H)	EF1-L16*3/4F (H)	EF1-L20*1/2F (H)
EF1-L20*3/4F (H)	EF1-L25*3/4F (H)	EF1-L32*1F (H)



FEMALE TEE

SPECIFICATION(S5)		
EF1-T16*1/2F	EF1-T20*1/2F	EF1-T25*3/4F

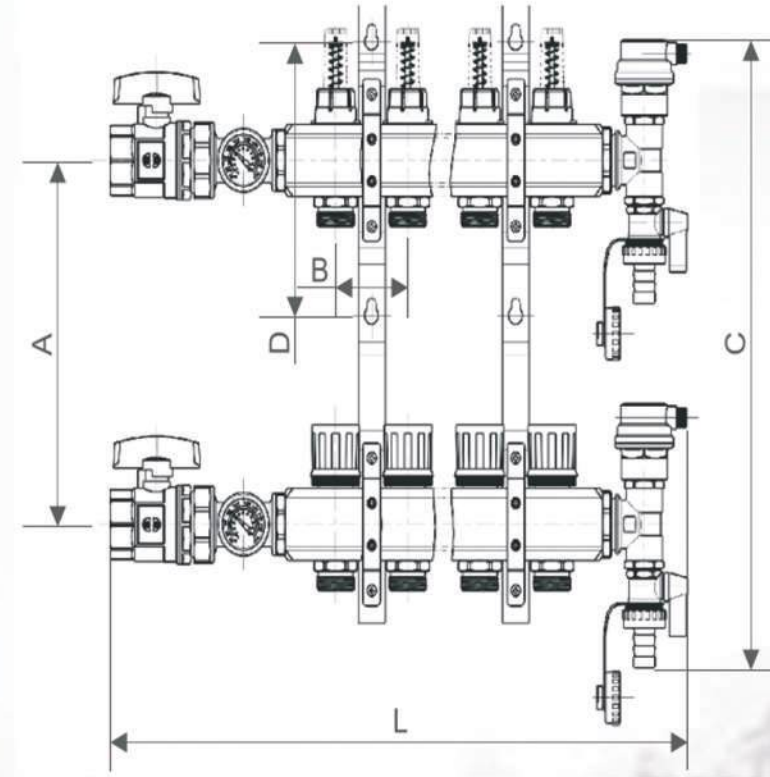
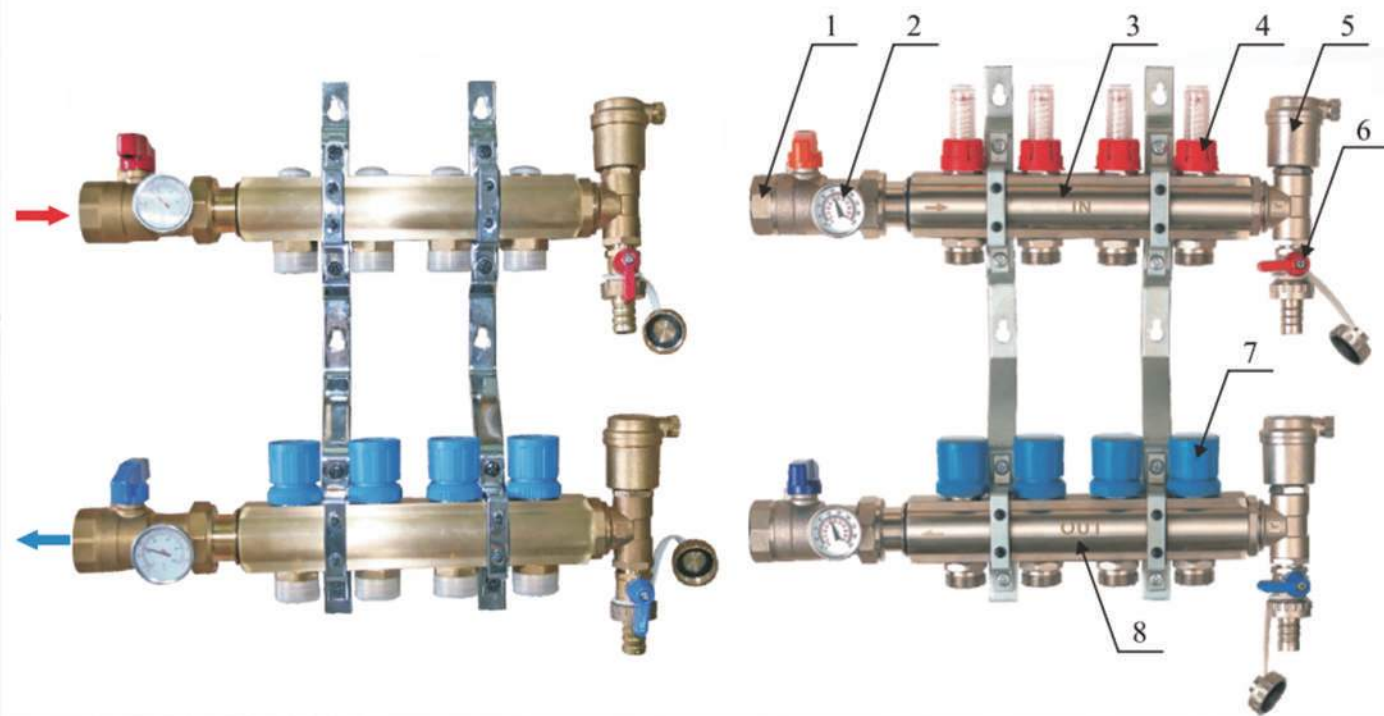


WALL-PLATED FEMALE ELBOW

SPECIFICATION(S5)	
EF1-L16*1/2F (Z)	EF1-L16*3/4F (Z)
EF1-L20*1/2F (Z)	EF1-L20*3/4F (Z)



# DISTRIBUTION MANIFOLDS



A	B
206	50

C	D
375	155

L=50*n+20+121.5+58.5	
300	350
400	450
500	550
600	650
700	750
800	

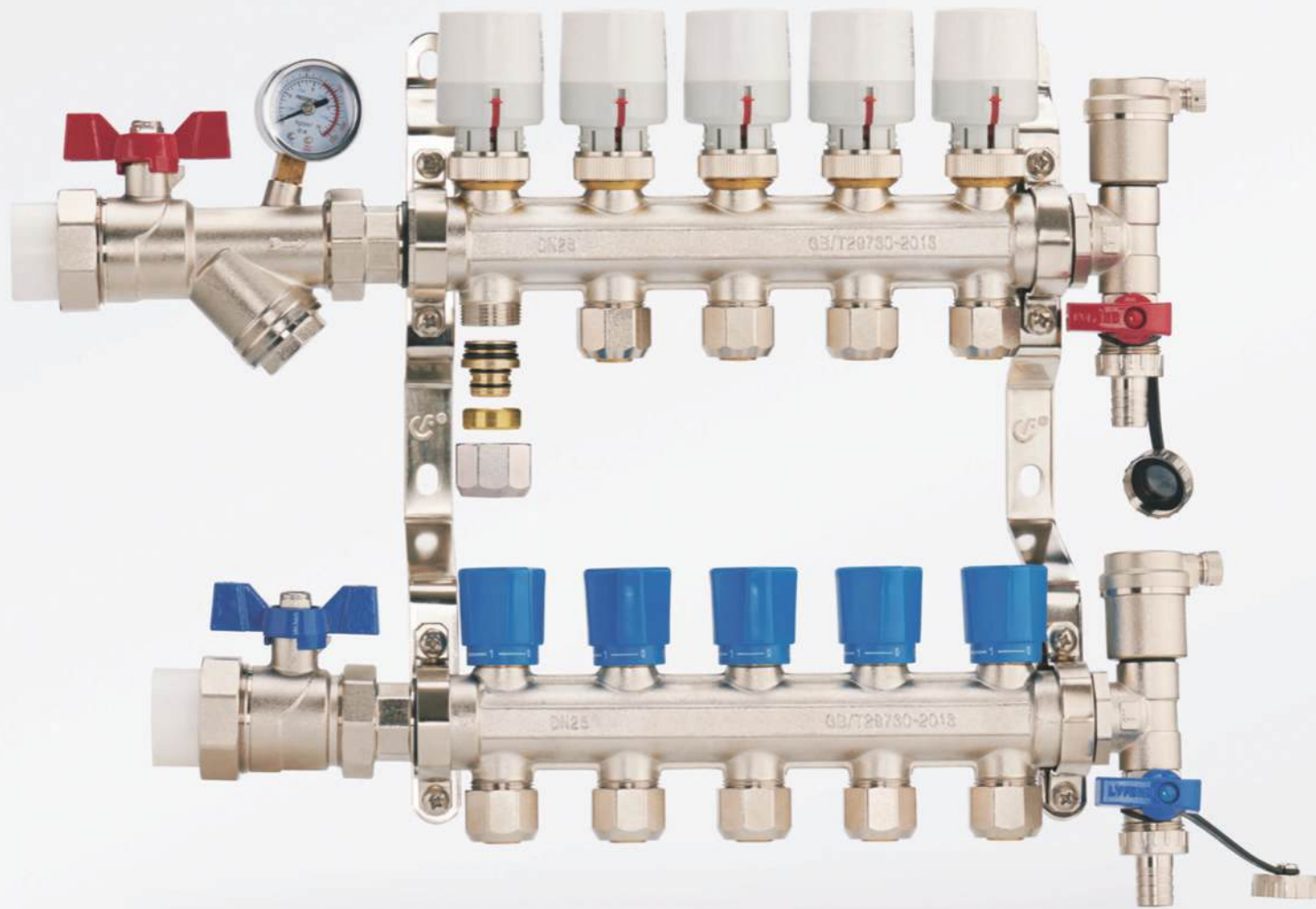
## TECHNICAL PARAMETERS

Nominal pressure: <b>PN10</b>	Medium temperature: <b>1°C ≤ t ≤ 100°C</b>
Main inlet/outlet size: <b>1"</b>	Sub inlet/outlet size: <b>1/2" or 3/4"</b>
<b>1. Ball valve</b>	<b>2. Thermometer</b>
<b>3. Delivery manifold</b>	<b>4. Flow meter</b>
<b>5. Automatic air vent</b>	<b>6. Drainage valve</b>
<b>7. On/Off knob manifold</b>	<b>8. Return manifold</b>

CODE	SIZE	WAYS	CONNECTIONS
LF3365-1F-3/4*2(Cu)	1"G	2	3/4"x18
LF3365-1F-3/4*3(Cu)	1"G	3	3/4"x18
LF3365-1F-3/4*4(Cu)	1"G	4	3/4"x18
LF3365-1F-3/4*5(Cu)	1"G	5	3/4"x18
LF3365-1F-3/4*6(Cu)	1"G	6	3/4"x18
LF3365-1F-3/4*7(Cu)	1"G	7	3/4"x18
LF3365-1F-3/4*8(Cu)	1"G	8	3/4"x18
LF3365-1F-3/4*9(Cu)	1"G	9	3/4"x18
LF3365-1F-3/4*10(Cu)	1"G	10	3/4"x18
LF3365-1F-3/4*11(Cu)	1"G	11	3/4"x18
LF3365-1F-3/4*12(Cu)	1"G	12	3/4"x18

CODE	SIZE	WAYS	CONNECTIONS
LF3365-1F-3/4*2(Ni)	1"G	2	3/4"x18
LF3365-1F-3/4*3(Ni)	1"G	3	3/4"x18
LF3365-1F-3/4*4(Ni)	1"G	4	3/4"x18
LF3365-1F-3/4*5(Ni)	1"G	5	3/4"x18
LF3365-1F-3/4*6(Ni)	1"G	6	3/4"x18
LF3365-1F-3/4*7(Ni)	1"G	7	3/4"x18
LF3365-1F-3/4*8(Ni)	1"G	8	3/4"x18
LF3365-1F-3/4*9(Ni)	1"G	9	3/4"x18
LF3365-1F-3/4*10(Ni)	1"G	10	3/4"x18
LF3365-1F-3/4*11(Ni)	1"G	11	3/4"x18
LF3365-1F-3/4*12(Ni)	1"G	12	3/4"x18





Manifolds consist of delivery manifold and return manifold. It has built-in control valves, which are manually adjusted to open or close each circuit. The inlet and outlet brass bars are made of brass forged with high density, with compact structure and reliable sealing.

## TECHNICAL PARAMETERS

Nominal pressure: **PN10**

Medium temperature: **1°C ≤ t ≤ 100°C**

Main inlet/outlet size: **1"**

Sub inlet/outlet size: **1/2" or 3/4"**



INTEGRATED FORGING OF THE MAIN BODY AND BRANCH TO PREVENT LEAKAGE

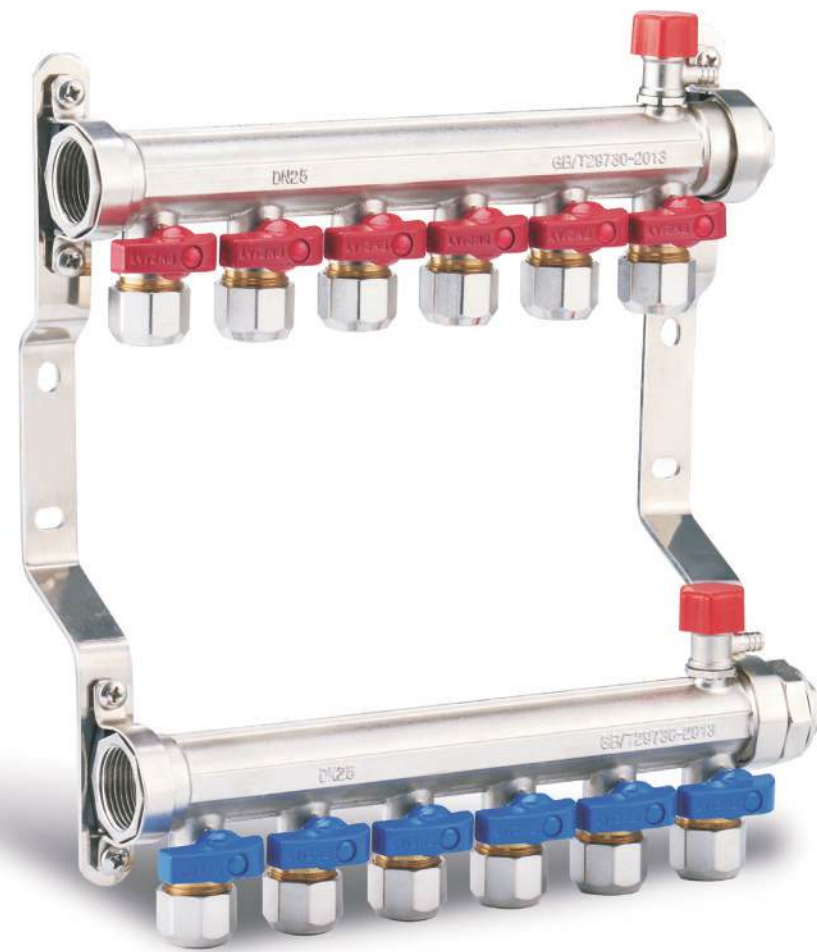


LEAK-PROOF DOUBLE SEALING DESIGN



STOP VALVE WITH LARGE FLOW DESIGN





Manifolds consist of delivery manifold and return manifold. It has built-in control valves, which are manually adjusted to open or close each circuit. The inlet and outlet brass bars are made of brass forged with high density, with compact structure and reliable sealing.

## TECHNICAL PARAMETERS

Nominal pressure: **PN10**

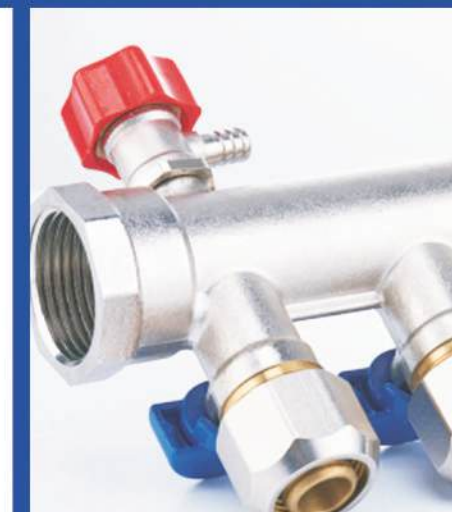
Medium temperature: **1°C ≤ t ≤ 100°C**

Main inlet/outlet size: **1"**

Sub inlet/outlet size: **1/2" or 3/4"**



360° ROTARY EXHAUST VALVE



INTEGRATED FORGING OF THE MAIN BODY AND BRANCH TO PREVENT LEAKAGE



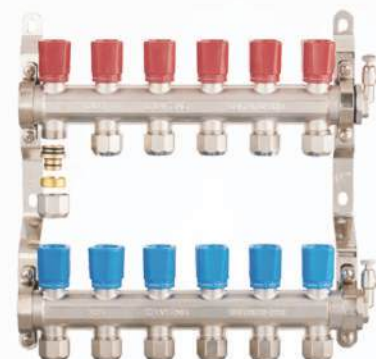
LEAK-PROOF DOUBLE SEALING DESIGN





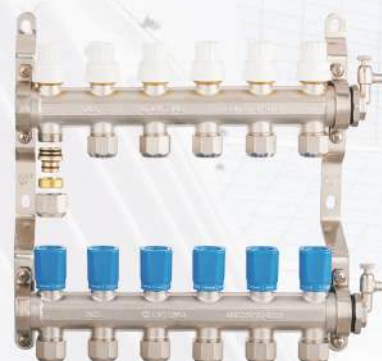
### LF3366 INTEGRATED MANUAL CONTROL FLOOR HEATING MANIFOLDS

Nominal pressure: **PN10**  
Medium temperature: **1°C ≤ t ≤ 100°C**  
Main inlet/outlet size: **1"**  
Sub inlet/outlet size: **1/2" or 3/4"**  
Number of inlet/outlet: **2-8**



### LF3377 INTEGRATED MANUAL CONTROL FLOOR HEATING MANIFOLDS

Nominal pressure: **PN10**  
Medium temperature: **1°C ≤ t ≤ 100°C**  
Main inlet/outlet size: **1"**  
Sub inlet/outlet size: **1/2" or 3/4"**  
Number of inlet/outlet: **2-8**



### LF3368 INTEGRATED ELECTRIC CONTROL FLOOR HEATING MANIFOLDS

Nominal pressure: **PN10**  
Medium temperature: **1°C ≤ t ≤ 100°C**  
Main inlet/outlet size: **1" 1/4**  
Sub inlet/outlet size: **1/2" or 3/4"**  
Number of inlet/outlet: **2-8**



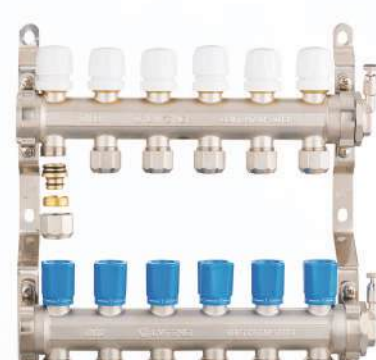
### LF3378 INTEGRATED MANUAL CONTROL FLOOR HEATING MANIFOLDS

Nominal pressure: **PN10**  
Medium temperature: **1°C ≤ t ≤ 100°C**  
Main inlet/outlet size: **1" 1/4**  
Sub inlet/outlet size: **1/2" or 3/4"**  
Number of inlet/outlet: **2-8**



### LF3369 INTEGRATED ELECTRIC CONTROL FLOOR HEATING MANIFOLDS

Nominal pressure: **PN10**  
Medium temperature: **1°C ≤ t ≤ 100°C**  
Main inlet/outlet size: **1"**  
Sub inlet/outlet size: **1/2" or 3/4"**  
Number of inlet/outlet: **2-8**



### LF3379 INTEGRATED MANUAL CONTROL FLOOR HEATING MANIFOLDS

Nominal pressure: **PN10**  
Medium temperature: **1°C ≤ t ≤ 100 °C**  
Main inlet/outlet size: **1" 1/4**  
Sub inlet/outlet size: **1/2" or 3/4"**  
Number of inlet/outlet: **2-8**



# VALVES

## VALVES For Water

### TECHNICAL SPECIFICATION

1. Nominal pressure: 2.5MPA(400PSI)
  2. Working temperature:  $T \leq 120^\circ\text{C}$
  3. Pressure test conform to ISO520
  4. Parallel pipe thread conform to ISO228
- Made of brass, with or without nickel. Connect to thread connectors.

### BALL VALVE WITH "1" HANDLE--VW1 SERIES



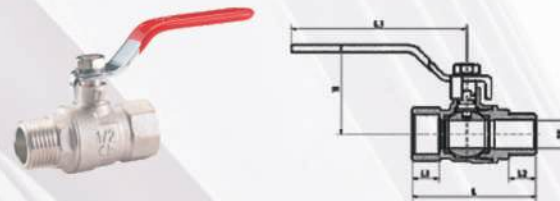
VW1-1/2F*1/2F
VW1-3/4F*3/4F
VW1-1F*1F
VW1-1/2F*1/2 F NI
VW1-3/4F*3/4F NI
VW1-1F*1F NI

L	L1	L2	L3	H	DN
52.3	13	13	84	44.5	14
59	14	14	84	48	19
68.5	16	16	115.5	60.5	25
52.3	13	13	84	44.5	14
59	14	14	84	48	19
68.5	16	16	115.5	60.5	25



VW1-1/2M*1/2M NI
VW1-3/4M*3/4M NI
VW1-1M*1M NI

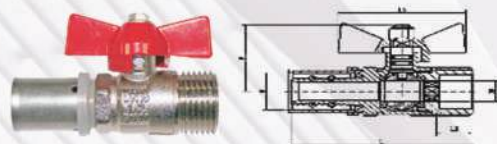
L	L1	L2	L3	H	DN
59.5	13	13	84	44	14
66	14	14	84	48	19
77.5	16	16	115.5	60.4	24



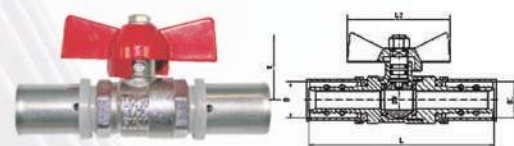
VW1-1/2M*1/2F NI
VW1-3/4M*3/4F NI
VW1-1M*1F NI

L	L1	L2	L3	H	DN
59.5	13	13	84	44	14
66	14	14	84	48	19
76.5	16	16	115.5	60.5	24

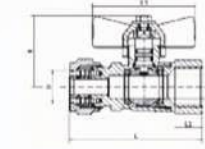
### BALL VALVE WITH "BUTTERFLY WING" HANDLE--VW2 SERIES



VW 2-F2-1216\*1/2M  
VW 2-F2-1620\*1/2M

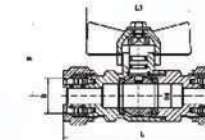


VW 2-F2-1216\*1216  
VW 2-F2-1620\*1620



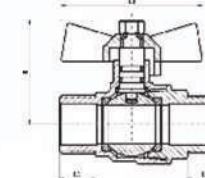
VW2-F2-1216\*1/2F  
VW2-F2-1620\*1/2F

L	L1	L2	L3	H	DN
66	16	14	52	38	12
66	20	15	52	39.5	14



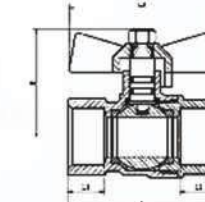
VW2-F2-1216\*1216  
VW2-F2-1620\*1620

L	L1	L2	L3	H	DN
79	16	14	52	39.5	14
81	20	20	52	39.5	14



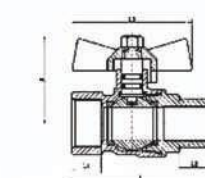
VW1-1/2M\*1/2M NI  
VW1-3/4M\*3/4M NI  
VW1-1M\*1M NI

L	L1	L2	L3	H	DN
59.5	13	13	51	38.5	14
66	14	14	51	41	19
77.5	16	16	72	49.75	24



VW1-1/2F\*1/2F NI  
VW1-3/4F\*3/4F NI  
VW1-1F\*1F NI

L	L1	L2	L3	H	DN
52.3	13	13	51	38.5	14
59	14	14	51	41	19
68.5	16	16	72	49.75	24



VW1-1/2M\*1/2F NI  
VW1-3/4M\*3/4F NI  
VW1-1M\*1F NI

L	L1	L2	L3	H	DN
59.5	13	13	51	38.5	14
66	14	14	51	41	19
76.5	16	16	72	49.75	24

### BUILT-IN VALVES-VW3- 4 SERIES



VW 3-1216\*1216



VW4-1216\*1216

- MADE OF BRASS
- CONNECT PAPP PIPES
- WITH OR WITHOUT NICKEL





## OPTIONAL CONNECTOR



PP-R Connector



RPAP5 Connector



PE-RT Connector

## OPTIONAL HANDLE



**LF210A**  
PPR filter ball valve  
D25x1"M  
D32x1"M

**LF218B**  
Female filter ball valve  
DN20  
DN25

**LF218X**  
PPR female filter ball valve  
D25x3/4"F  
D25x1"F

**LF220**  
Lock temperature filter ball valve  
DN20  
DN25

**LF221**  
Press angle integrated filter demountable ball valve  
D25x1"M

**LF221Q**  
Compression angle integrated filter demountable ball valve  
D25x1"M

**LF225A**  
Female and male filter demountable ball valve  
1"Fx1"M

**LF226A**  
PPR filter demountable ball valve  
D25x1"M  
D32x1"M



# VALVES

VALVES For Gas

## TECHNICAL SPECIFICATION

Nominal pressure: 2.5MPA (400PSI)

Working temperature: T≤120 °C

Pressure test conform to ISO520

Parallel pipe thread conform to ISO228



### LF226XF

Female and male filter demountable ball valve

D25×1"M  
D32×1"M



### LF226K

Press demountable filter ball valve

DN20  
DN25



### LF226X

PPR filter demountable ball valve

D25×1"M  
D32×1"M



### LF227XQ

Compression angle filter demountable ball valve (interchangeable type)

D25×1"M



### LF227X

Compression angle filter demountable ball valve (fixed type)

D25×1"M  
D32×1"M



### LF227XD

PPR Angle filter demountable ball valve (interchangeable type)

D25×1"M



### LF227XP

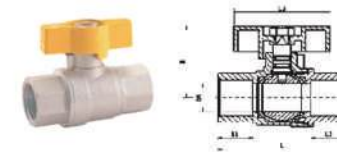
PPR Angle filter demountable ball valve (fixed type)

D25×1"M  
D32×1"M

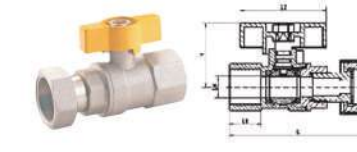


### LFY-40

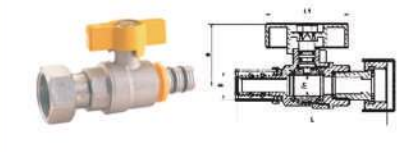
Light pressure gauge



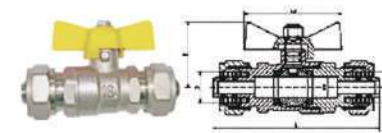
VG1-1/2F\*1/2F--DN15  
VG1-3/4F\*3/4F--DN20



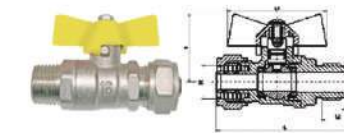
VG1-1/2F\*1/2F(H)--DN15  
VG1-3/4F\*3/4(H)--DN20



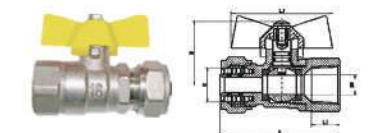
F2-VG1-1216\*1/2F(H)--DN15  
F2-VG1-1620\*3/4F(H)--DN20



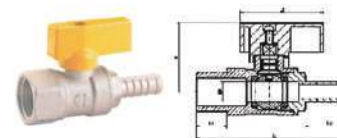
VG2-F1-1216\*1216  
VG2-F1-1620\*1620



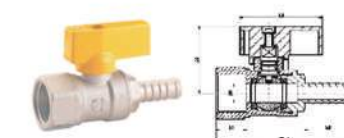
VG2-F1-1216\*1/2  
VG2-F1-1620\*1/2



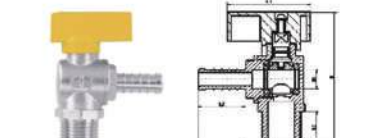
VG2-F1-1216\*1/2F  
VG2-F1-1620\*1/2F



VG3-S1/2\*10-DN10



VG3-S1/2F\*10-DN10



VG3-L1/2M\*10-DN10



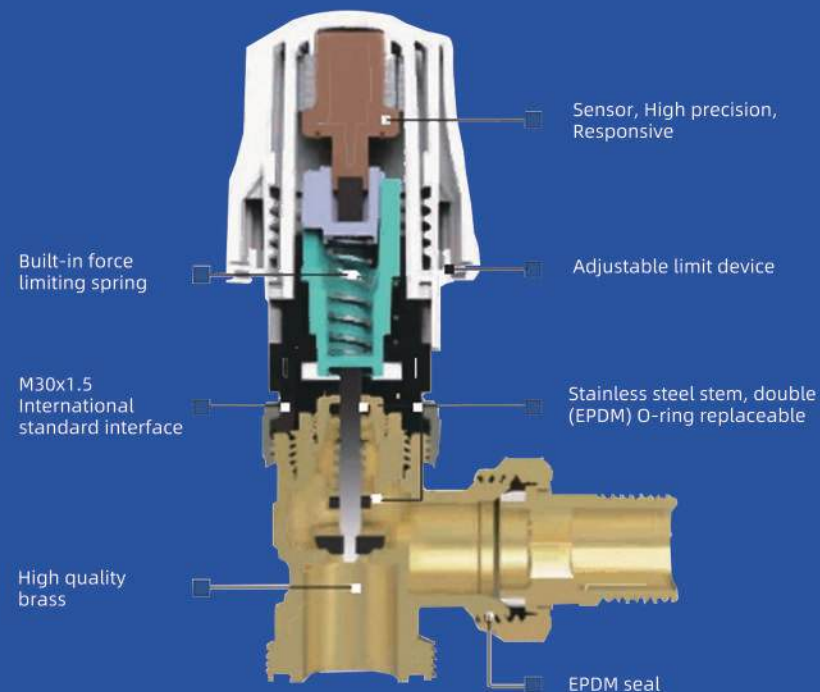
# THERMOSTATIC VALVES



## Thermostat Valve

Thermostatic valves are proportional control valves that can work without additional operation. It regulates and controls the indoor temperature by changing the flow of heating hot water. It is an economic and energy-saving product.

Its control element is an actuator. When the room temperature rises, the actuator starts to expand to turn down the valve to reduce the hot water supply. When the indoor temperature drops, the process is reversed.



**LF150**  
Straight automatic  
thermostatic valve  
DN15  
DN20  
DN25



**LF150B**  
Straight compression  
automatic thermostatic  
valve  
D20x1/2"M



**LF150J**  
Angle automatic  
thermostatic valve  
DN15  
DN20



**LF150P**  
PPR Straight automatic  
thermostatic valve  
D20x1/2"M



**LF151Q**  
Compression angle  
automatic thermostatic  
valve  
D20x1/2"M



**LF153**  
Angle thermostatic  
valve  
DN15  
DN20



**LF154**  
PPR Angle thermostatic  
valve  
D20x1/2"M  
D20x3/4"M  
D25x3/4"M



**LF154B**  
Compression angle  
thermostatic valve  
D20x1/2"M





**LF156**  
Straight Stop valve  
DN15  
DN20



**LF157**  
PPR Straight thermostatic valve  
D20×1/2"M  
D20×3/4"M  
D25×3/4"M



**LF166**  
Straight locking valve  
DN15



**LF167**  
Single way thermostatic valve  
HF20



**157B**  
Straight compression thermostatic valve  
D20×1/2"M



**LF159**  
Two-way Tee stop valve  
DN15  
DN20



**LF160**  
PPR Heating tee valve  
D25×3



**LF162**  
PPR two-way demountable tee stop valve  
D25×2×25



**LF162b**  
Compression two-way demountable tee stop valve  
D25×2×25  
D32×2×32



**LF164**  
Angle locking valve  
DN15

### Optional thermostatic valve handle



Thermostatic valve handle a



Thermostatic valve handle b



Thermostatic valve handle c

### Optional connector



PP-R connector



RPAP5 connector



PB connector



PE-RT connector



# TEMPERATURE CONTROL ELEMENTS



**902 thermostat**  
(touch screen for home decoration)



**905 thermostat**  
(with link control of gas boiler)



**105 thermostat**  
(for project)



**C10 Actuator**  
(normally closed)



**project actuators**  
(normally on)



**project actuator**  
(normally closed)



**C20 actuator**  
(normally closed)



**A30 actuator**

# TOOLS AND ACCESSORIES

## TOOLS For Piping System



KA-1216  
KA-1418  
KA-1620  
KA-2025  
KA-2632

**PLASTIC SOCKET**



SPECIFICATION  
GJ

**PIPE CUTTER**



SPECIFICATION  
GJ\*-75

**PIPE CUTTER**



PR-16-20-25  
PR-20-25-32

**PLASTIC REAMER**



SYQ14-20(pack)  
SYQ14-20-16  
(module)  
SYQ14-20-20  
(module)

**ADJUSTABLE MANUAL  
PRESSING CLAMP(PACK)**



SYQ14-32(pack)  
Clamp jaw1216  
Clamp jaw1620  
Clamp jaw2025  
Clamp jaw2632

**LENGTHENED MANUAL  
PRESSING CLAMP(PACK)**



PB-01

**PIPE BENDING TOOL**



TR-3240(L)  
TR-4150(L)  
TR-5163(L)

**LENGTHENED T-REAMER**



TR-1216  
TR-1620  
TR-2025  
TR-2632

**T-REAMER**



TR-3240  
TR-4150  
TR-5163  
TR-6075

**T-REAMER**



BS2-1216  
BS2-1418  
BS2-1620  
BS2-2025  
BS2-2632

**EXTERNAL BENDING  
SPRING**



BS1-1216  
BS1-1418  
BS1-1620  
BS1-2025  
BS1-2632

**INTERNAL BENDING  
SPRING**



# INSTRUCTION

## Installation Instruction For PAP Piping System (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 reamer.



### STEP3: INSERTING

Choose the right size sleeved fittings 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. Select the right jaws;
2. Install the jaws onto the tool;
3. Adjust 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 completely;
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 the installation is finished.

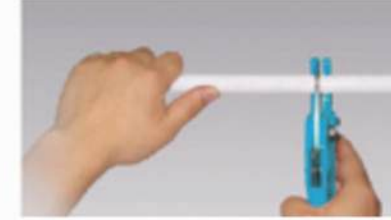


### Notice

1. This installation instruction is mainly for the fittings from 1014 to 2632(mm).
2. For your safe connection, Top Aqua pipes should be connected with approved fittings by Top Aqua.

# INSTRUCTION

## Installation Instruction For PAP Piping System (Compression Fittings)



### STEP1: PIPE CUTTING

Cut the pipe vertically and precisely with pipe cutter.



### STEP2: ROUNDING AND BEVELING

Round and bevel the end holes with reamer.



### STEP3: INSERTING

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



### STEP4: TIGHTENING THE NUT

Use the spanner to tighten the nut, the installation is accomplished.



### Notice

1. This installation instruction is mainly for the fittings from 1014 to 2632(mm),
2. For your safe connection, Top Aqua pipes should be connected with approved fittings by TopAqua.



# INSTRUCTION

## Installation Instruction For PEX Piping System (PF2 Fittings)



### 1. CUT IT

Cut pipe to length using an approved PEX cutter making sure the end of the pipe is cut squarely and not damaged.



### 2. EXPAND IT

- A.** Screw on the expander head, ensuring it is in good condition. The use of a defective expander head will damage the pipe and potentially the joint.
- B.** Slide the compression sleeve over the pipe with the tapered end facing the fitting.
- C.** Insert the expander head into the pipe at 90.
- D.** Check that the compression sleeve is clear of the area being expanded. Close the handles, hold briefly, then open and rotate the tool 30. Repeat the process.



### 3. SLEEVE IT

- A.** Insert fitting until it reaches the pin-stop;
- B.** If the expanded pipe had shrunk too much, it must be expanded again.



### 4. FIX IT

- A.** Slide the sleeve towards the fitting until you feel resistance.
- B.** Position the jaws squarely over the shoulder and compression sleeve. Do not use damaged compression tools for joint assembly. It may damage the pipe, fittings and joint.



### 5. DONE

- A.** The joint is completed when the compression sleeve is drawn up to the fitting shoulder.
- B.** The maximum gap is 1mm. Compress joint if greater than 1mm.
- C.** You're done. Too easy.

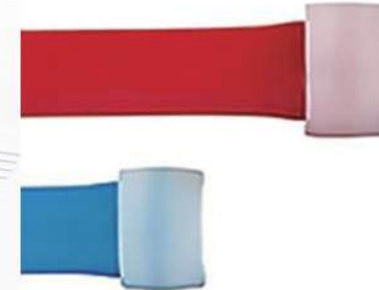
# INSTRUCTION

## Installation Instruction For PEX Piping System (PEX-A Expansion fitting)



### STEP 1

Cut the pipe vertically and precisely with a pipe cutter.



### STEP 2

Choose the right specification of expansion ring, and place it onto the end of the pipe.



### STEP 3

Use expansion tool to expand ring&pipe.



### STEP 4

Remove the tool and insert expansion fitting.







# CERTIFICATIONS

