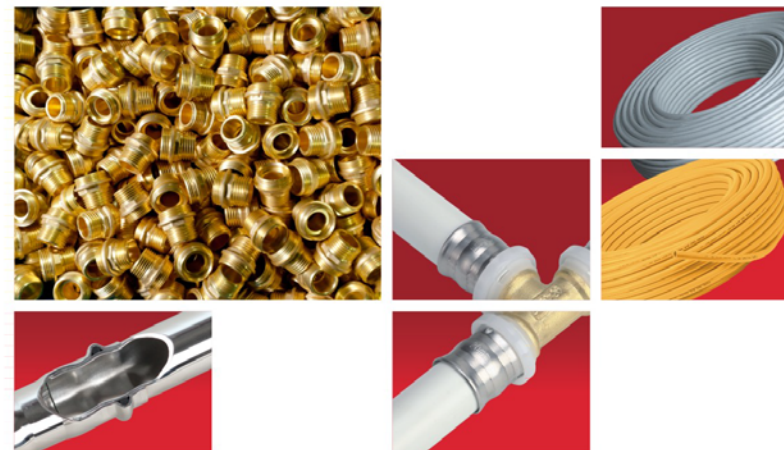




ZHEJIANG MINGSHI XINGXIN HVAC TECHNOLOGY CO., LTD.

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PRODUCT CATALOGUE

PIPES&FITTINGS / VALVES / STAINLESS STEEL PIPES & FITTINGS



www.ms-piping.com

Company Introduction

Create a new standard of living

ZHEJIANG MINGSHI XINGXIN HVAC TECHNOLOGY CO., LTD. Established in the year of 1999, the company now is one of the top manufacturers of plastic and composite pipes, tubes, brass fittings, manifolds and valves in China.

◆ Excellent R & D Ability

Mingshi accumulated rich expertise and experience to develop, test and market products independently. We have the experienced staff and the newest equipments. All our products are made with the highest technical specifications, and incorporated the latest design technology.

◆ Strict Quality Assurance System

Mingshi acquired the ISO9001 quality system certificate, and taking strict quality control according to the system. We have 3 internal laboratories covering the inspection from raw material to finished products. All of our products are also evaluated by the authorized regulatory department of Chinese government, and all of our products specifications are beyond national industry standards.

◆ Numerous Product Certifications

All of our products acquired the ISO9001 quality system certificate and ISO14001 environment system certificate. We also acquired the AENOR certificate in Spain, the SKZ certificate in Germany, the WaterMark & StandardsMark certificates in Australia, the JASWIC certificate in South Africa and CE certificate in European Union.

◆ Widespread Market Approval

Products made by Mingshi are sold to 38 countries and regions which include Italy, Spain, Germany, UK, US, and so on. With our good reputation and remarkable quality, Mingshi has become a famous brand among Chinese export commodities, it also wins great favor from overseas buyers. We are a top supplier in China.

◆ Registered Trademarks:

 **MINGSHI**

 **MSP**

International Approvals

- The ISO9001 quality system certificate
- The ISO 14001 Environmental Management System
- The CE certificate in European Union
- The AENOR certificate in Spain
- The SKZ certificate in Germany
- The SNAS quality system certificate in Slovak
- The JASWIC certificate in South Africa
- The WaterMark certificate in Australia
- The ACS certificate in France
- The WRAS certificate in UK

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(For partial products covered by certificates)
Overlapped pex-al-pe pipes 16-63mm
Butt-welding pex-al-pe pipes 16-32mm
Butt-welding pex-al-pe pipes 16-32mm
U type fittings 16-63mm



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Factory Overview



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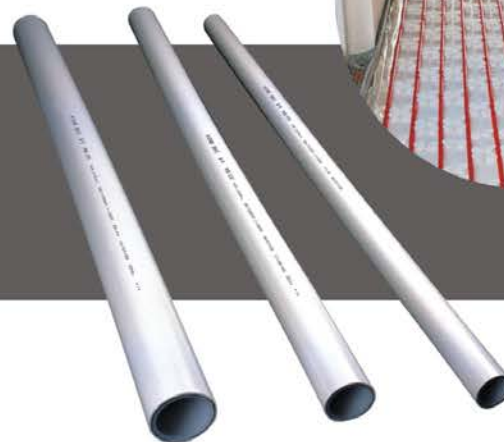
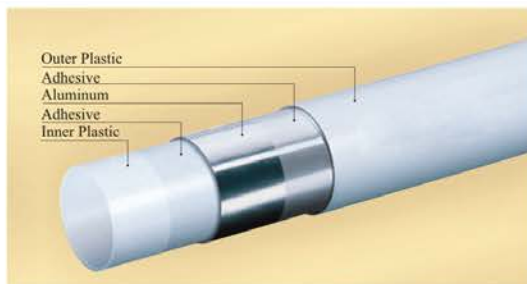
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ALUMINUM PLASTIC MULTILAYER PIPE SERIES



Product Performance

- **Temperature and Pressure Resistance:** max. up to 95℃, 1-1.25Mpa.
- **High Mechanical Strength:** not easy to be damaged or cracked.
- **Corrosion Resistance:** resistant to acid, alkaline and salt solutions.
- **Cleanness and Health:** no harmful substances, mould-proof, non-rusting and non-scaling.
- **Light Weight:** arbitrary length with convenient installation.
- **Flexibility and Non-Rebound:** can be bent without being heated, reduced the use of fittings.
- **Heat Preservation:** 1/100 heat conductivity of metal pipe, excellent heat preservation and outstanding energy conservation.
- **Anti-Vibration and Impact Resistance:** the composite material can effectively reduce and absorb the pipe vibration so as to lower the noise.
- **Long Service Life:** high creep strength and long service life.

Main Applications

- Water supply pipes and drinking water pipes in buildings;
- Hot water supply pipes in buildings;
- Radiant floor and wall heating, and solar water heater pipes;
- Gas delivery pipes of LPG, LNG etc;
- Cold water delivery pipes for air-conditioners;
- Compressed air pipes under medium pressure;
- Special fluid delivery pipes for chemical engineering, petrochemical industry and food industry;
- Communication, telecommunication, computer, information transfer, power transmission & electrical shielding pipes and electrical insulation pipes;
- Water and gas supply pipes for ships.



MULTILAYER PIPE SERIES

Product	Model No.	Spec.	Type
PE-AL-PEX	S-1-0201	1216	Hot Water Pipe Overlapped
	S-1-0202	1418	
	S-1-0203	1620	
	S-1-0204	2025	
	S-1-0205	2632	
	S-1-0206	3240	
	S-1-0207	4150	
	S-1-0208	5163	
PEX-AL-PEX	S-1-0209	1216	
	S-1-0210	1418	
	S-1-0211	1620	
	S-1-0212	2025	
	S-1-0213	2632	
	S-1-0214	3240	
	S-1-0215	4150	
	S-1-0216	5163	
PE-AL-PEX	S-1-0501	1216	Hot Water Pipe Butt Welded
	S-1-0502	1418	
	S-1-0503	1620	
	S-1-0504	2025	
	S-1-0505	2632	
	S-1-0506	3240	
	S-1-0507	4150	
	S-1-0508	5163	
PEX-AL-PEX	S-1-0509	1216	
	S-1-0510	1418	
	S-1-0511	1620	
	S-1-0512	2025	
	S-1-0513	2632	
	S-1-0514	3240	
	S-1-0515	4150	
	S-1-0516	5163	
CORRUGATED PIPE	S-1-0701	for 1216	
	S-1-0702	for 1620	
	S-1-0703	for 2025	
	S-1-0704	for 2026	
	S-1-0705	for 2632	
INSULATED PIPE	S-1-0801	for 1216	
	S-1-0802	for 1620	
	S-1-0803	for 2025	
	S-1-0804	for 2026	
	S-1-0805	for 2632	

Product	Model No.	Spec.	Type
PE-AL-PE	S-1-0101	1216	Cold Water Pipe Overlapped
	S-1-0102	1418	
	S-1-0103	1620	
	S-1-0104	2025	
	S-1-0105	2632	
	S-1-0106	3240	
	S-1-0107	4150	
	S-1-0108	5163	
			Cold Water Pipe Butt Welded
	S-1-0401	1216	
	S-1-0402	1418	
	S-1-0403	1620	
	S-1-0404	2025	
	S-1-0405	2632	
	S-1-0406	3240	
	S-1-0407	4150	
	S-1-0408	5163	
PE-AL-PE	S-1-0301	1216	Gas Pipe Overlapped
	S-1-0302	1418	
	S-1-0303	1620	
	S-1-0304	2025	
	S-1-0405	2632	
	S-1-0406	3240	
	S-1-0407	4150	
	S-1-0408	5163	
PERT-AL-PERT	S-1-0601	1216	Hot Water Pipe Overlapped
	S-1-0602	1418	
	S-1-0603	1620	
	S-1-0604	2025	
	S-1-0605	2632	
	S-1-0606	3240	
	S-1-0607	4150	
	S-1-0608	5163	
PERT-AL-PERT	S-1-0609	1216	Hot Water Pipe Butt Welded
	S-1-0610	1418	
	S-1-0611	1620	
	S-1-0612	2025	
	S-1-0613	2632	
	S-1-0614	3240	
	S-1-0615	4150	
	S-1-0616	5163	

PP-R PIPE SERIES



PP-R pipe, formerly called random copolymerized polypropylene pipe, is the most reliable in plumbing and water supply plants, due to its chemical features and fusion welding, which ensures the plumbing to have a perfect seal tight system.

Featured by excellent cleanness, cost effectiveness, applicability and advantage in safety, it is considered as the optimal pipe material for cold and hot water systems.



PP-R Pipe Features

PP-R pipe possess the features of ordinary pipes, including light weight, corrosion resistance and non-scaling. Moreover, it also has the following features:

- Non-toxicity and health.
- Heat preservation and energy conservation.
- Great heat resistance.
- Long service life.
- Convenient installation and reliable connection.
- The material can be recycled.



Applications

- Cold & hot water systems in buildings, including central heating system;
- Heating systems in buildings, including under floor, wall panel and radiation heating systems;
- Drinking water supply purifying system;
- Central (integrated) air-conditioning system;
- Industrial pipeline systems used for delivering or discharging chemical substances.



PP-R PIPE SERIES

Product	Model No.	Spec.
 PP-R 1.25MPa	S-2-0101	25*2.3
	S-2-0102	32*2.9
	S-2-0103	40*3.7
	S-2-0104	50*4.6
	S-2-0105	63*5.6
	S-2-0106	75*6.8
	S-2-0107	90*8.2
	S-2-0108	110*10
 PP-R 1.60MPa	S-2-0201	20*2.3
	S-2-0202	25*2.8
	S-2-0203	32*3.6
	S-2-0204	40*4.5
	S-2-0205	50*5.6
	S-2-0206	63*7.1
	S-2-0207	75*8.4
	S-2-0208	90*10.1
	S-2-0209	110*12.3
 PP-R 2.0MPa	S-2-0301	20*2.8
	S-2-0302	25*3.5
	S-2-0303	32*4.4
	S-2-0304	40*5.5
	S-2-0305	50*6.9
	S-2-0306	63*8.6
	S-2-0307	75*10.3
	S-2-0308	90*12.3
	S-2-0309	110*15.1
 PP-R 2.5MPa	S-2-0401	D20*3.4
	S-2-0402	D25*4.2
	S-2-0403	D32*5.4
	S-2-0404	D40*6.7
	S-2-0405	D50*8.3
	S-2-0406	D63*10.5

Product	Model No.	Spec.
 PPR-AL-PPR S4	S-4-0101	D20*2.3
	S-4-0102	D25*2.8
	S-4-0103	D32*3.6
	S-4-0104	D40*4.5
	S-4-0105	D50*5.6
	S-4-0106	D63*7.1
 PPR-AL-PPR S3.2	S-4-0201	D20*2.8
	S-4-0202	D25*3.5
	S-4-0203	D32*4.4
	S-4-0204	D40*5.5
	S-4-0205	D50*6.9
	S-4-0206	D63*8.6
 PPR-AL-PPR S2.5	S-4-0301	D20*3.4
	S-4-0302	D25*4.2
	S-4-0303	D32*5.4
	S-4-0304	D40*6.7
	S-4-0305	D50*8.3
	S-4-0306	D63*10.5
 PPR-AL-PERT Overlapped 1.0 Mpa	S-4-0101	D20*3.0
	S-4-0102	D25*3.25
	S-4-0103	D32*4.0

PE-RT PIPE SERIES



PE-RT pipe is made through the copolymerization of ethylene monomer and 1-octylene monomer, is the medium-density ethylene-octylene copolymer designed for the radiant floor heating system, with PE features like sanitation performance and processing performance.

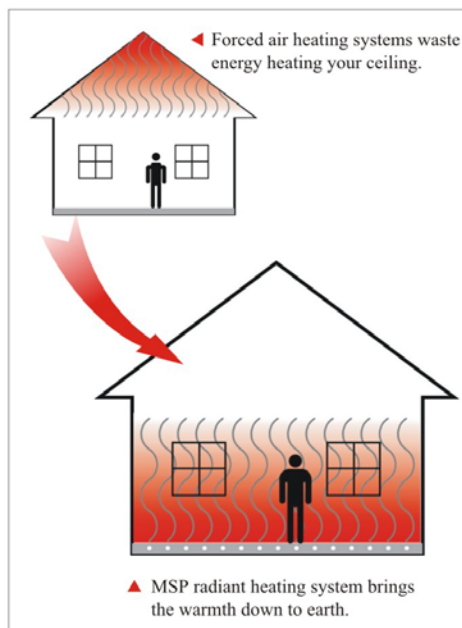
PE-RT Pipe Features

- Excellent stability and long service life;
- Good impact resistance and high safety;
- With outstanding flexibility, the product can be easily bended and carried out the construction;
- Favorable heat conductivity;
- Repairable fusion welding connection, simple installation and convenient maintenance;
- Low installation & maintenance cost, high cost performance.



Product	Model No.	Spec.
 PE-RT	S-5-0101	16x2.0
	S-5-0102	18x2.0
	S-5-0103	20x2.0
	S-5-0104	25x2.5
	S-5-0105	32x3.0

 PERT-EVOH	S-5-1101	16x2.0
	S-5-1102	18x2.0
	S-5-1103	20x2.0
	S-5-1104	25x2.5
	S-5-1105	32x3.0



Radiant heating is the clear choice for customers demanding the most comfortable, efficient heating system on the market today. Radiant heating requires very little maintenance, is easily zoned and has proven itself time and time again as a viable alternative to forced-air heating systems. Radiant heating brings the warmth down to earth, where it is most effective.

The MSP heating system works with hot water circulating through pipes in the floor or walls. The energy is transferred to, and absorbed by other objects in the room. The heat transfer causes the temperature of an object to rise--increasing the temperature of the

PE-X PIPE SERIES



PE-X pipe is made from the polyethylene material, adopting the cross-linking technique to form the covalent bond between polyethylene molecular chains. It has excellent heat resistance and outstanding mechanical and physical performance.



PE-X Pipe Features

- Outstanding quality, strong toughness and high internal pressure strength;
- With excellent corrosion resistance and environmental stress crack resistance, the product can deliver chemical fluids under high-temperature conditions;
- As the inner wall surface tension of the pipe is low, the water with high surface tension is difficult to soak into the inner wall, which can effectively avoid scaling;
- Due to smooth inner wall of the pipe, small fluid flow resistance, excellent hydraulic performance, the product has the larger fluid flow than the metal pipe.
- With flexibility and memory model, the product shape can be restored after being heated;
- With light weight and convenient installation, the product is easy to be delivered and carried out the construction;
- Under the normal conditions, the service life can be over 50 years.



PE-X PIPE SERIES

Product	Model No.	Spec.
 PEX-B	S-3-0101	16x2.0
	S-3-0102	18x2.0
	S-3-0103	20x2.0
	S-3-0104	25x2.5
	S-3-0105	32x3.0

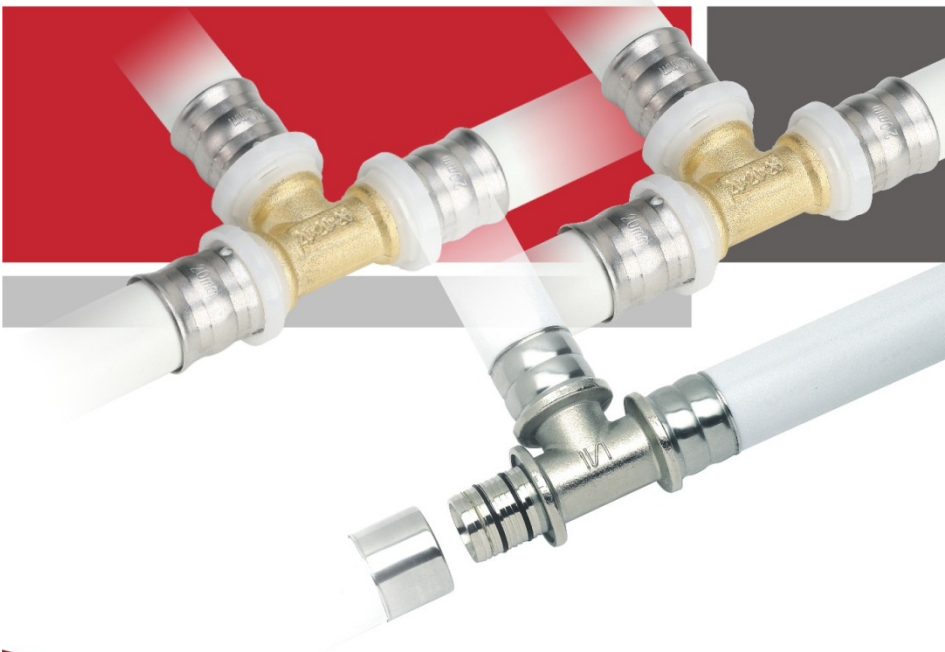
 PEX-B WITH EVOH	S-3-1101	16x2.0
	S-3-1102	18x2.0
	S-3-1103	20x2.0
	S-3-1104	25x2.5
	S-3-1105	32x3.0

 PEX-B	S-3-0131	16*2.2
	S-3-0132	20*2.8
	S-3-0133	25*3.5
	S-3-0134	32*4.4

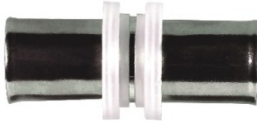
 PEX-A	S-3-0106	16*2.0
	S-3-0107	20*2.0
	S-3-0108	25*2.5
	S-3-0109	32*3.0

 PEX-A	S-3-0201	16*2.2
	S-3-0202	20*2.8
	S-3-0203	25*3.5
	S-3-0204	32*4.4

PRESS FITTINGS(U&TH&MULTIJAW)



- The products are suitable for connecting parts of fluid pipes. The operating temperature is -20℃ to 110℃ and the operating pressure is $\leq 2.5\text{MPa}$.
- **Operating Mediums:** Water, unsaturated vapor, compressed air, oil & grease, weak acid, weak alkali and appropriate refrigerants, which should have weak corrosively for brass.
- **Applicable Pipes:** Aluminum plastic composite pipes, PE-X pipes, PE-RT pipes, PB pipes, Steel plastic composite pipes, etc.
- The standard socket size is suitable for the aluminum plastic composite pipe. If use for other type of pipes, the socket size should match with the pipe wall thickness and the seal ring material should be replaced so that it can be compatible with the medium.

Product	Model No.	Spec.
 Straight	M-1-0101	S1216
	M-1-0102	S1418
	M-1-0103	S1620
	M-1-0104	S2025
	M-1-0105	S2632
	M-1-0106	S3240
	M-1-0107	S4150
	M-1-0108	S5163
 Reduced Straight	M-1-0201	S18*16
	M-1-0202	S20*16
	M-1-0203	S20*18
	M-1-0204	S25*16
	M-1-0205	S25*18
	M-1-0206	S25*20
	M-1-0222	S32*16
	M-1-0207	S32*20
	M-1-0208	S32*25
	M-1-0209	S40*16
	M-1-0210	S40*18
	M-1-0211	S40*20
	M-1-0212	S40*25
	M-1-0213	S40*32
	M-1-0214	S50*20
	M-1-0215	S50*25
	M-1-0216	S50*32
	M-1-0217	S50*40
	M-1-0218	S63*25
	M-1-0219	S63*32
	M-1-0220	S63*40
	M-1-0221	S63*50
 Elbow	M-1-0501	L1216
	M-1-0502	L1418
	M-1-0503	L1620
	M-1-0504	L2025
	M-1-0505	L2632
	M-1-0506	L3240
	M-1-0507	L4150
	M-1-0508	L5163

Product	Model No.	Spec.
 Male Straight	M-1-0301	S16*1/2"M
	M-1-0302	S16*3/4"M
	M-1-0303	S18*1/2"M
	M-1-0304	S18*3/4"M
	M-1-0305	S20*1/2"M
	M-1-0306	S20*3/4"M
	M-1-0307	S20*1"M
	M-1-0308	S25*1/2"M
	M-1-0309	S25*3/4"M
	M-1-0310	S25*1"M
	M-1-0311	S32*1/2"M
	M-1-0312	S32*3/4"M
	M-1-0313	S32*1"M
	M-1-0314	S32*1 1/4"M
	M-1-0315	S32*1 1/2"M
	M-1-0316	S40*1 1/2"M
	M-1-0317	S40*1 1/4"M
	M-1-0318	S40*2"M
	M-1-0319	S50*1 1/4"M
	M-1-0320	S50*1 1/2"M
	M-1-0321	S50*2"M
	M-1-0322	S63*1"M
	M-1-0323	S63*1 1/2"M
	M-1-0324	S63*2"M
	M-1-0325	S63*2 1/2"M
	M-1-0326	
 Union	M-1-1701	H1216
	M-1-1702	H1418
	M-1-1703	H1620
	M-1-1704	H2025
	M-1-1705	H2632
	M-1-1706	H3240
	M-1-1707	H4150
	M-1-1708	H5163
 Male Tee	M-1-2801	T16*1/2"M*16
	M-1-2802	T16*3/4"M*16
	M-1-2803	T20*1/2"M*20
	M-1-2804	T20*3/4"M*20

Product	Model No.	Spec.
 Female Straight	M-1-0401	S16*1/2"F
	M-1-0402	S16*3/4"F
	M-1-0403	S16*1"F
	M-1-0404	S18*1/2"F
	M-1-0405	S18*3/4"F
	M-1-0407	S20*1/2"F
	M-1-0408	S20*3/4"F
	M-1-0409	S20*1"F
	M-1-0410	S25*1/2"F
	M-1-0411	S25*3/4"F
	M-1-0412	S25*1"F
	M-1-0413	S32*1/2"F
	M-1-0414	S32*3/4"F
	M-1-0415	S32*1"F
	M-1-0416	S32*1 1/4"F
	M-1-0417	S32*3/2"F
	M-1-0418	S40*1 1/2"F
	M-1-0419	S50*1 1/2"F
	M-1-0420	S50*2"F
	M-1-0421	S63*2"F
 Reduced Elbow	M-1-0701	L18*16
	M-1-0702	L20*16
	M-1-0703	L20*18
	M-1-0704	L25*16
	M-1-0705	L25*18
	M-1-0706	L25*20
	M-1-0707	L32*16
	M-1-0708	L32*18
	M-1-0709	L32*20
	M-1-0710	L32*25
	M-1-0711	L40*20
	M-1-0712	L40*25
	M-1-0713	L40*32
	M-1-0714	L50*25
	M-1-0715	L50*32
	M-1-0716	L50*40
	M-1-0717	L63*32
	M-1-0718	L63*40
	M-1-0719	L63*50

Product	Model No.	Spec.
	M-1-0801	L16*1/2"M
	M-1-0802	L16*3/4"M
	M-1-0803	L18*1/2"M
	M-1-0804	L18*3/4"M
	M-1-0805	L20*1/2"M
	M-1-0806	L20*3/4"M
	M-1-0813	L20*1"M
	M-1-0807	L25*1/2"M
	M-1-0808	L25*3/4"M
	M-1-0809	L25*1"M
	M-1-0810	L32*1/2"M
	M-1-0811	L32*3/4"M
	M-1-0812	L32*1"M

Male Elbow

	M-1-0901	L16*1/2"F
	M-1-0902	L16*3/4"F
	M-1-0903	L18*1/2"F
	M-1-0904	L18*3/4"F
	M-1-0905	L20*1/2"F
	M-1-0906	L20*3/4"F
	M-1-0913	L20*1"F
	M-1-0907	L25*1/2"F
	M-1-0908	L25*3/4"F
	M-1-0909	L25*1"F
	M-1-0910	L32*1/2"F
	M-1-0911	L32*3/4"F
	M-1-0912	L32*1"F

Female Elbow

	M-1-1007	L16*1/2"F(A)*50MM
	M-1-1013	L20*1/2"F(A)*50MM

Wall Plated Extended Elbow

Product	Model No.	Spec.
	M-1-1001	L16*1/2"F(A)
	M-1-1002	L16*3/4"F(A)
	M-1-1003	L18*1/2"F(A)
	M-1-1004	L20*1/2"F(A)
	M-1-1006	L20*3/4"F(A)

Wall Plated Elbow

	M-1-1101	T1216
	M-1-1102	T1418
	M-1-1103	T1620
	M-1-1104	T2025
	M-1-1105	T2632
	M-1-1106	T3240
	M-1-1107	T4150
	M-1-1108	T5163

Tee

	M-1-1301	T16*1/2"F*16
	M-1-1302	T16*3/4"F*16
	M-1-1303	T18*1/2"F*18
	M-1-1304	T18*3/4"F*18
	M-1-1305	T20*1/2"F*20
	M-1-1306	T20*3/4"F*20
	M-1-1307	T20*1"F*20
	M-1-1308	T25*1/2"F*25
	M-1-1309	T25*3/4"F*25
	M-1-1310	T25*1"F*25
	M-1-1311	T32*1/2"F*32
	M-1-1312	T32*3/4"F*32
	M-1-1313	T32*1"F*32
	M-1-1314	T20*1/2"F*16
	M-1-1316	T40*3/4"F*40
	M-1-1317	T40*1"F*40
	M-1-1318	T40*11/4"F*40
	M-1-1319	T40*11/2"F*40
	M-1-1320	T50*3/4"F*50
	M-1-1321	T50*1"F*50
	M-1-1322	T50*11/4"F*50
	M-1-1323	T50*11/2"F*50
	M-1-1324	T50*2"F*50
	M-1-1325	T63*1"F*63
	M-1-1326	T63*11/4"F*63
	M-1-1327	T63*11/2"F*63
	M-1-1328	T63*2"F*63

Female Tee

Product	Model No.	Spec.
	M-1-1201	T16*18*16
	M-1-1202	T16*20*16
	M-1-1203	T16*25*16
	M-1-1204	T18*16*18
	M-1-1205	T18*20*18
	M-1-1206	T18*25*18
	M-1-1207	T20*16*20
	M-1-1208	T20*18*20
	M-1-1209	T20*25*20
	M-1-1211	T25*16*25
	M-1-1212	T25*18*25
	M-1-1213	T25*20*25
	M-1-1214	T25*32*25
	M-1-1215	T32*16*32
	M-1-1216	T32*18*32
	M-1-1217	T32*20*32
	M-1-1218	T32*25*32
	M-1-1225	T25*16*20
	M-1-1226	T32*20*25
	M-1-1210	T20*16*16
	M-1-1219	T20*20*16
	M-1-1220	T25*25*18
	M-1-1221	T25*25*20
	M-1-1222	T25*18*18
	M-1-1223	T25*20*20
	M-1-1224	T25*16*20
	M-1-1227	T32*20*25
	M-1-1228	T40*16*40
	M-1-1229	T40*20*40
	M-1-1230	T40*25*40
	M-1-1231	T40*32*40
	M-1-1232	T50*20*50
	M-1-1233	T50*25*50
	M-1-1234	T50*32*50
	M-1-1235	T50*40*50
	M-1-1236	T63*25*63
	M-1-1237	T63*32*63
	M-1-1238	T63*40*63
	M-1-1239	T63*50*63

Reduced Tee

Product	Model No.	Spec.
	M-1-1801	H16*1/2
	M-1-1802	H18*1/2
	M-1-1803	H20*1/2
	M-1-1804	H20*3/4
	M-1-1808	H20*1
	M-1-1805	H25*1/2
	M-1-1806	H25*3/4
	M-1-1809	H25*1
	M-1-1807	H32*1
	M-1-1801	H40*1 1/2
	M-1-1802	H50*2
	M-1-1803	H63*2 1/2
	M-1-0422	H16*1/2"F
	M-1-0423	H20*1/2"F
	M-1-0424	H20*3/4"F
	M-1-0425	H25*3/4"F
	M-1-0426	H32*1"F

Female Union

PRESS FITTINGS(WITHOUT O-RING)



- The products are suitable for connecting parts of fluid pipes. The operating temperature is -20℃ to 110℃ and the operating pressure is $\leq 2.5\text{MPa}$.
- **Operating Mediums:** Water, unsaturated vapor, compressed air, oil & grease, weak acid, weak alkali and appropriate refrigerants, which should have weak corrosively for brass.
- **Applicable Pipes:** Aluminum plastic composite pipes, PE-X pipes, PE-RT pipes, PB pipes, Steel plastic composite pipes, etc.
- The standard socket size is suitable for the aluminum plastic composite pipe. If use for other type of pipes, the socket size should match with the pipe wall thickness and the seal ring material should be replaced so that it can be compatible with the medium.

MINGSHI PRESS FITTINGS(WITHOUT O-RING)

Product	Model No.	Spec.
 Female Swivel Nut	M-13-0101	16x1,8-1/2"
	M-13-0102	32x2,9-1"
 Female Swivel Nut	M-13-0201	25x2,3 - 16x1,8
	M-13-0202	32x2,9 - 25x2,3
 Coupling Threaded Male	M-13-0301	32-1"
 Tee Threaded Female	M-13-0401	16-1/2"-16
	M-13-0402	20-1/2"-20
	M-13-0403	25-3/4"-25
 Backplate Elbow	M-13-0501	16x1,8-1/2"
 Equal Tee	M-13-0601	32x2,9
 Straight Coupling	M-13-0701	32x2,9
 Reduced Tee	M-13-0801	20-16-16
	M-13-0802	25-16-25
	M-13-0803	25-32-25
 90° Elbow Equal	M-13-0901	20x1,9
	M-13-0902	32x2,9

COMPRESSION FITTINGS



- The products are suitable for connecting parts of fluid ducts. The operating temperature is -20°C to 110°C and the operating pressure is $\leq 2.5\text{MPa}$.
- **Operating Mediums:** Water, unsaturated vapor, compressed air, oil & grease, weak acid, weak alkali and appropriate refrigerants, which should have weak corrosivity for brass.
- **Applicable Pipes:** Aluminum plastic composite pipes, PE-X pipes, PE-RT pipes, PB pipes, etc.
- The standard socket size is suitable for the aluminum plastic composite pipe. If use for other type of pipes, the socket size should match with the pipe wall thickness and the seal ring material should be replaced so that it can be compatible with the medium.



Product	Model No.	Spec.
 Equal Straight	M-2-0101	S1216
	M-2-0102	S1418
	M-2-0103	S1620
	M-2-0104	S2025(26)
	M-2-0105	S2632
 Reduced Straight	M-2-0201	S18*16
	M-2-0202	S20*16
	M-2-0203	S20*18
	M-2-0204	S25(26)*16
	M-2-0205	S25(26)*18
	M-2-0206	S25(26)*20
	M-2-0207	S32*16
	M-2-0208	S32*18
	M-2-0209	S32*20
	M-2-0210	S32*25(26)
 Male Straight	M-2-0301	S16*1/2"M
	M-2-0302	S16*3/4"M
	M-2-0303	S18*1/2"M
	M-2-0304	S18*3/4"M
	M-2-0307	S20*1/2"M
	M-2-0308	S20*3/4"M
	M-2-0309	S20*1"M
	M-2-0310	S25(26)*1/2"M
	M-2-0311	S25(26)*3/4"M
	M-2-0312	S25(26)*1"M
	M-2-0313	S32*1/2"M
	M-2-0314	S32*3/4"M
	M-2-0315	S32*1"M
	M-2-0316	S32*1 1/4"M
 Female Straight	M-2-0401	S16*1/2"F
	M-2-0402	S16*3/4"F
	M-2-0403	S18*1/2"F
	M-2-0404	S18*3/4"F
	M-2-0405	S20*1/2"F
	M-2-0406	S20*3/4"F
	M-2-0407	S20*1"F
	M-2-0408	S25(26)*1/2"F
	M-2-0409	S25(26)*3/4"F
	M-2-0410	S25(26)*1"F
	M-2-0413	S32*1"F

Product	Model No.	Spec.
 Elbow	M-2-0501	L1216
	M-2-0502	L1418
	M-2-0503	L1620
	M-2-0504	L2025(26)
	M-2-0505	L2632
 Reduced Elbow	M-2-0603	L20*16
	M-2-0604	L20*18
	M-2-0605	L25(26)*16
	M-2-0606	L25(26)*20
	M-2-0607	L32*16
	M-2-0609	L32*20
 Male Elbow	M-2-0701	L16*1/2"M
	M-2-0700	L16*3/4"M
	M-2-0702	L18*1/2"M
	M-2-0703	L18*3/4"M
	M-2-0704	L20*1/2"M
	M-2-0705	L20*3/4"M
	M-2-0706	L25(26)*1/2"M
	M-2-0707	L25(26)*3/4"M
	M-2-0708	L25(26)*1"M
 Female Elbow	M-2-0709	L32*1"M
	M-2-0801	L16*1/2"F
	M-2-0802	L16*3/4"F
	M-2-0803	L18*1/2"F
	M-2-0804	L18*3/4"F
	M-2-0805	L20*1/2"F
	M-2-0806	L20*3/4"F
	M-2-0807	L25(26)*1/2"F
	M-2-0808	L25(26)*3/4"F
	M-2-0809	L25(26)*1"F
	M-2-0810	L32*1/2"F
	M-2-0811	L32*3/4"F
	M-2-0812	L32*1"F

Product	Model No.	Spec.
 Wall Plated Elbow	M-2-0901	L16*1/2"F(A)
	M-2-0902	L18*1/2"F(A)
	M-2-0903	L20*1/2"F(A)
	M-2-0904	L20*3/4"F(A)
 Wall Plated Angle	M-2-0906	L16*1/2F(A)*16
	M-2-0908	L20*1/2F(A)*20
 Tee	M-2-1001	T1216
	M-2-1002	T1418
	M-2-1003	T1620
	M-2-1004	T2025(26)
	M-2-1005	T2632
 Cross	M-2-2001	X1216
	M-2-2002	X1418
	M-2-2003	X1620
 Unequal Tee	M-2-1102	T16*20*16
	M-2-1103	T16*25(26)*16
	M-2-1107	T20*16*20
	M-2-1108	T20*18*20
	M-2-1109	T20*25(26)*20
	M-2-1111	T25(26)*16*25(26)
	M-2-1112	T25(26)*18*25(26)
	M-2-1113	T25(26)*20*25(26)
	M-2-1114	T25(26)*32*25(26)
	M-2-1115	T32*16*32
	M-2-1116	T32*18*32
	M-2-1117	T32*20*32
	M-2-1118	T32*25(26)*32
	M-2-1119	T20*16*16
	M-2-1120	T20*20*16
	M-2-1121	T25(26)*20*20
	M-2-1122	T25(26)*20*16
	M-2-1123	T25(26)*25(26)*16
	M-2-1125	T25(26)*25(26)*20
	M-2-1126	T32*20*25(26)

Product	Model No.	Spec.
 Male Tee	M-2-1901	T16*1/2"M*16
	M-2-1902	T20*1/2"M*20
	M-2-1903	T20*3/4"M*20
	M-2-1904	T25(26)*3/4"M*25(26)
	M-2-1905	T25(26)*1"M*25(27)
	M-2-1906	T32*1"M*32
 Female Tee	M-2-1201	T16*1/2"F*16
	M-2-1202	T18*1/2"F*18
	M-2-1203	T18*3/4""18
	M-2-1204	T20*1/2"F*20
	M-2-1205	T20*3/4"F*20
	M-2-1206	T25(26)*1/2"F*25(26)
	M-2-1207	T25(26)*3/4"F*25(26)
	M-2-1208	T25(26)*1"F*25(26)
	M-2-1209	T32*3/4"F*32
	M-2-1210	T32*1"F*32
 Cap	M-2-1801	D1216
	M-2-1802	D1418
	M-2-1803	D1620
	M-2-1804	D2025(26)
	M-2-1805	D2632

THREAD FITTINGS



- The products are suitable for connecting parts of fluid ducts. The operating temperature is -20℃ to 110℃ and the operating pressure is $\leq 2.5\text{MPa}$.
- **Operating Mediums:** Water, unsaturated vapor, compressed air, oil & grease, weak acid, weak alkali and appropriate refrigerants, which should have weak corrosivity for brass.
- **Applicable Pipes:** Aluminum plastic composite pipes, PE-X pipes, PE-RT pipes, PB pipes, etc.
- The standard socket size is suitable for the aluminum plastic composite pipe. If use for other type of pipes, the socket size should match with the pipe wall thickness and the seal ring material should be replaced so that it can be compatible with the medium.



Product	Model No.	Spec.
 Double Male Straight	M-2-1401	ZG1/2M
	M-2-1402	ZG3/4M
	M-2-1403	ZG1M
	M-2-1404	ZG3/4M*1/2M
 Double Female Straight	M-2-1501	ZG1/2F
	M-2-1502	ZG3/4F
	M-2-1503	ZG1F
 Double Female Elbow	M-2-1601	L1/2F
	M-2-1602	L3/4F
	M-2-1603	L1F
 Female Tee	M-2-1701	T1/2F
	M-2-1702	T3/4F
	M-2-1703	T1F
 Female Tee	M-3-1010	T1/2
	M-3-1011	T3/4
	M-3-1012	T1
	M-3-1013	T1 1/4
	M-3-1014	T1 1/2
	M-3-1015	T2
 Male and Female Straight	M-3-2010	1/2*10mm
	M-3-2011	1/2*15mm
	M-3-2012	1/2*20mm
	M-3-2013	1/2*25mm
	M-3-2014	1/2*30mm
	M-3-2015	1/2*40mm
	M-3-2016	1/2*50mm

Product	Model No.	Spec.
 Reduced Female Straight	M-3-3010	S1/2F*3/8F
	M-3-3011	S3/4F*1/2F
	M-3-3012	S1F*1/2F
	M-3-3013	S1F*3/4F
	M-3-3014	S1 1/4F*1/2F
	M-3-3015	S1 1/4F*3/4F
	M-3-3016	S1F*1 1/4F
	M-3-3017	S1 1/2F*1F
	M-3-3018	S1 1/2F*1 1/4F
	M-3-3019	S2F*1F
	M-3-3020	S2F*1 1/4F
	M-3-3021	S2F*1 1/2F
 Female Straight	M-3-4010	S1/2F
	M-3-4011	S3/4F
	M-3-4012	S1F
	M-3-4013	S1 1/4F
	M-3-4014	S1 1/2F
	M-3-4015	S2F
 Double Male Straight	M-3-6010	S3/8M*1/4M
	M-3-6011	S1/2M*3/8M
	M-3-6012	S1/2M*1/4M
	M-3-6013	S1/2M*3/4M
	M-3-6014	S1/2M*1M
	M-3-6015	S3/4M*S1M
	M-3-6016	S1/2M*1 1/4M
	M-3-6017	S1/2M*1 1/2M
	M-3-6018	S3/4M*1 1/4M
	M-3-6019	S1M*1 1/4M
	M-3-6020	S1 1/2M*3/4M
	M-3-6021	S1M*S1 1/2M
	M-3-6022	S1 1/2M*1 1/4M
	M-3-6023	S2M*1/2M
	M-3-6024	S2M*3/4M
	M-3-6025	S2M*1M
	M-3-6026	S2M*1 1/4M
	M-3-6027	S2M*1 1/2M

Product	Model No.	Spec.
 Union	M-3-5010	1/2
	M-3-5011	3/4
	M-3-5012	1
	M-3-5013	1 1/4
	M-3-5014	1 1/2
	M-3-5015	2

 Male and Female Straight	M-3-7010	S3/8M*1/4F
	M-3-7011	S1/2M*1/4F
	M-3-7012	S1/2M*3/8F
	M-3-7013	S3/4M*1/2F
	M-3-7014	S1M*1/2F
	M-3-7015	S1M*3/4F
	M-3-7016	S1 1/4M*1/2F
	M-3-7017	S1 1/4M*3/4F
	M-3-7018	S1 1/4M*1F
	M-3-7019	S1 1/2M*1/2F
	M-3-7020	S1 1/2M*3/4F
	M-3-7021	S1 1/2M*1F
	M-3-7022	S1 1/2M*1 1/4F
	M-3-7023	S2M*1/2F
	M-3-7024	S2M*3/4F
	M-3-7025	S2M*1F
	M-3-7026	S2M*1 1/4F
	M-3-7027	S2M*1 1/2F

 Male Straight	M-3-8010	S1/2M
	M-3-8011	S3/4M
	M-3-8012	S1M
	M-3-8013	S1 1/4M
	M-3-8014	S1 1/2M
	M-3-8015	S2M

 Male Cap	M-3-9010	1/2
	M-3-9011	3/4
	M-3-9012	1
	M-3-9013	1 1/4
	M-3-9014	1 1/2
	M-3-9015	2

Product	Model No.	Spec.
 Female Cap	M-3-1000	1/2F
	M-3-1001	3/4
	M-3-1002	1F
	M-3-1003	1 1/4F
	M-3-1004	1 1/2F
	M-3-1005	2F

 Male and Female Straight	M-3-1101	S3/8F*1/4M
	M-3-1102	S1/2F*1/4M
	M-3-1103	S1/2F*3/8M
	M-3-1104	S3/4F*1/2M
	M-3-1105	S1F*1/2M
	M-3-1106	S1F*3/4M
	M-3-1107	S1 1/4F*1/2M
	M-3-1108	S1 1/4F*3/4M
	M-3-1109	S1 1/4F*1M

 Female Elbow	M-3-1201	1/2F
	M-3-1202	3/4F
	M-3-1203	1F
	M-3-1204	1 1/4F
	M-3-1205	1 1/2F
	M-3-1206	2F

 Male Tee	M-3-1501	T1/2M*1/2M*1/2M
	M-3-1502	T3/4M*1/2M*3/4M
	M-3-1503	T1/2M*1/2M*1/2M
	M-3-1504	T3/4M*3/4M*3/4M
	M-3-1505	T1M*1M*1M

 Male and Female Elbow	M-3-1602	L1/2M*1/2F
	M-3-1603	L3/4M*1/2 F
	M-3-1604	L1M*1 F
	M-3-1605	L1 1/4M*1 1/4F
	M-3-1606	L1 1/2M*1 1/2F
	M-3-1607	L2M*2F

Product	Model No.	Spec.
 Wall Plated Angle Tee	M-5-2010	16*1/2F*16*M10
	M-5-2011	20*1/2F*20*M10
	M-5-2012	16*1/2F*20*M10
	M-5-2020	L1/2*1/2F*1/2*M10
 Tee	M-5-2110	H16*1/2F*16*M10
	M-5-2111	20*1/2F*20*M10
	M-5-2112	16*1/2F*20*M10
	M-5-2120	1/2*1/2F*1/2*M10
 Union	M-3-1701	H16*1/2F
	M-3-1702	H16*3/4F
	M-3-1703	H20*1/2F
	M-3-1704	H20*3/4F
	M-3-1705	H25*3/4F
	M-3-1706	H25*1F
 Male Elbow	M-3-1801	L1/2M*1/2M
	M-3-1802	L3/4M*3/4M
	M-3-1803	L1M*1M
 Male and Female Elbow	M-3-1901	1/2
	M-3-1902	3/4
	M-3-1903	1
	M-3-1904	1 1/4

Product	Model No.	Spec.
 Male Tee	M-5-5010	T1*M*3/4*M*1*M
	M-5-5011	T3/4*M*1/2*M*3/4*M
	M-5-5012	T1/2M**1/2M*1/2M
	M-5-5013	T3/4*3/4M*3/4M
	M-5-5014	T1M*1M*1M
 Male and Female Elbow	M-5-5110	L1/2F*1/2M
	M-5-5111	L1/2F*3/4M
	M-5-5112	L1/2F*1M
	M-5-5113	L3/4F*3/4M
	M-5-5114	L3/4F*1M
	M-5-5115	L1F*1M

PP-R FITTINGS



- The fittings are suitable for connecting parts of PP-R pipes. The operating temperature is 0°C to 90°C. The operating pressure is ≤ 2.5 MPa.
- **Applicable Mediums:** Cold and hot water
- **Applicable Pipes:** S5/S4/S3.2/S2.5 series of PP-R pipes and PPR-AL-PPR pipes

Product	Model No.	Spec.
 Straight	M-8-0101	S20
	M-8-0102	S25
	M-8-0103	S32
	M-8-0104	S40
	M-8-0105	S50
	M-8-0106	S63
	M-8-0107	S75
	M-8-0108	S90
	M-8-0109	S110
	M-8-0110	S160
 Reduced Straight	M-8-0201	S25*20
	M-8-0202	S32*20
	M-8-0203	S32*25
	M-8-0204	S40*20
	M-8-0205	S40*25
	M-8-0206	S40*32
	M-8-0207	S50*20
	M-8-0208	S50*25
	M-8-0209	S50*32
	M-8-0210	S50*40
	M-8-0215	S63*20
	M-8-0211	S63*25
	M-8-0212	S63*32
	M-8-0213	S63*40
	M-8-0214	S63*50
	M-8-0216	S75*40
	M-8-0217	S75*50
	M-8-0218	S75*63
	M-8-0219	S90*32
	M-8-0230	S90*40
	M-8-0220	S90*50
	M-8-0221	S90*63
	M-8-0222	S90*75
	M-8-0231	S110*25
	M-8-0223	S110*40
	M-8-0224	S110*50
	M-8-0225	S110*63
	M-8-0226	S110*75
	M-8-0227	S110*90
	M-8-0228	S160*90
	M-8-0229	S160*110

Product	Model No.	Spec.
 Female Straight	M-8-0301	S20*1/2"F
	M-8-0308	S20*3/4"F
	M-8-0302	S25*1/2"F
	M-8-0303	S25*3/4"F
	M-8-0309	S32*1/2"F
	M-8-0310	S32*3/4"F
	M-8-0304	S32*1"F
	M-8-0305	S40*1.1/4"F
 Male Straight	M-8-0401	S20*1/2"M
	M-8-0408	S20*3/4"M
	M-8-0402	S25*1/2"M
	M-8-0403	S25*3/4"M
	M-8-0410	S32*1/2"M
	M-8-0411	S32*3/4"M
	M-8-0404	S32*1"M
	M-8-0405	S40*1.1/4"M
 Elbow	M-8-0406	S50*1.1/2"M
	M-8-0409	S63*1.1/2"M
	M-8-0407	S63*2"M
	M-8-0413	S75*2.1/2"M
	M-8-0501	L20
	M-8-0502	L25
	M-8-0503	L32
	M-8-0504	L40
 Elbow	M-8-0505	L50
	M-8-0506	L63
	M-8-0507	L75
	M-8-0508	L90
	M-8-0509	L110
	M-8-0510	L160

Product	Model No.	Spec.
 Female Elbow	M-8-0601	L20*1/2"F
	M-8-0605	L20*3/4"F
	M-8-0602	L25*1/2"F
	M-8-0603	L25*3/4"F
	M-8-0606	L32*1/2"F
	M-8-0607	L32*3/4"F
	M-8-0604	L32*1"F
	M-8-0608	L40*1.1/4"F
 Male Elbow	M-8-0609	L50*1"F
	M-8-0610	L50*1.1/2"F
	M-8-0611	L63*2"F
 Tee	M-8-0701	L20*1/2"M
	M-8-0702	L25*1/2"M
	M-8-0703	L25*3/4"M
	M-8-0706	L32*1/2"M
	M-8-0707	L32*3/4"M
	M-8-0704	L32*1"M
	M-8-0705	L50*1.1/2"M
	M-8-0706	L63*2"M
 Tee	M-8-0801	T20
	M-8-0802	T25
	M-8-0803	T32
	M-8-0804	T40
	M-8-0805	T50
	M-8-0806	T63
	M-8-0807	T75
	M-8-0808	T90
 Female Tee	M-8-0809	T110
	M-8-0810	T160
 Female Tee	M-8-0901	T20*1/2"F
	M-8-0911	T20*3/4"F
	M-8-0902	T25*1/2"F
	M-8-0903	T25*3/4"F
	M-8-0905	T32*1/2"F
	M-8-0906	T32*3/4"F
	M-8-0907	T32*1"F
	M-8-0908	T40*1"F
 Female Tee	M-8-0909	T50*3/4"F
	M-8-0910	T50*1"F
 Female Tee		

Product	Model No.	Spec.
	M-8-1001	T25*20*25
	M-8-1002	T32*20*32
	M-8-1003	T32*25*32
	M-8-1004	T40*20*40
	M-8-1005	T40*25*40
	M-8-1006	T40*32*40
	M-8-1007	T50*20*50
	M-8-1008	T50*25*50
	M-8-1009	T50*32*50
	M-8-1010	T50*40*50
	M-8-1015	T63*20*63
	M-8-1011	T63*25*63
	M-8-1012	T63*32*63
	M-8-1013	T63*40*63
	M-8-1014	T63*50*63
	M-8-1015	T75*20*75
	M-8-1016	T75*25*75
	M-8-1017	T75*32*75
	M-8-1018	T75*40*75
	M-8-1019	T75*50*75
	M-8-1020	T75*63*75
	M-8-1021	T90*25*90
	M-8-1022	T90*32*90
	M-8-1023	T90*40*90
	M-8-1024	T90*50*90
	M-8-1025	T90*63*90
	M-8-1026	T90*75*90
	M-8-1027	T110*20*110
	M-8-1028	T110*25*110
	M-8-1029	T110*32*110
	M-8-1030	T110*40*110
	M-8-1031	T110*50*110
	M-8-1032	T110*63*110
	M-8-1033	T110*75*110
	M-8-1034	T110*90*110
	M-8-1035	T160*90*160
	M-8-1036	T160*110*160

Reduced Tee

Product	Model No.	Spec.
	M-8-1101	D20
	M-8-1102	D25
	M-8-1103	D32
	M-8-1104	D40
	M-8-1105	D50
	M-8-1106	D63
	M-8-1107	D75
	M-8-1108	D90
	M-8-1109	D110
	M-8-1201	L20
	M-8-1202	L25
	M-8-1203	L32
	M-8-1204	L40
	M-8-1205	L50
	M-8-1206	L63
	M-8-1207	L75
	M-8-1208	L90
	M-8-1209	L110
	M-8-1301	H20*1/2"M
	M-8-1302	H25*3/4"M
	M-8-1303	H32*1"M
	M-8-1304	H40*1 1/4"M
	M-8-1305	H50*1 1/4"M
	M-8-1306	H50*1 1/2"M
	M-8-1307	H63*2"M
	M-8-1401	D20
	M-8-1402	D25
	M-8-1403	D32
	M-8-1404	D40
	M-8-1405	D50
	M-8-1406	D63
	M-8-1407	D75
	M-8-1408	D90
	M-8-1409	D110

Valves

Elbow

Male Union

Cap

Product	Model No.	Spec.
 Male Tee	M-8-1501	T20*1/2"M
	M-8-1507	T20*3/4"M
	M-8-1502	T25*1/2"M
	M-8-1503	T25*3/4"M
	M-8-1504	T32*1/2"M
	M-8-1505	T32*3/4"M
	M-8-1506	T32*1"M
 Reduced Elbow	M-8-1601	L25*20
	M-8-1604	L32*20
	M-8-1602	L32*25
	M-8-1605	L40*20
	M-8-1603	L40*32
	M-8-1607	L50*25
	M-8-1608	L63*32
	M-8-1609	L63*50
 Wall Plated Elbow	M-8-1701	L20*1/2"F(A)
	M-8-1702	L25*1/2"F(A)
 Bridge	M-8-1701	D20
	M-8-1702	D25
	M-8-1703	D32
 Bridge	M-8-1703	D20
	M-8-1704	D25
	M-8-1705	D32
	M-8-1706	D20
	M-8-1707	D25
	M-8-1708	D32

Product	Model No.	Spec.
 Pipe Plug	M-8-1901	D1/2"M
	M-8-1902	D3/4"M
 Female Union	M-8-2001	H20*1/2"F
	M-8-2002	H25*3/4"F
	M-8-2003	H32*1"F
	M-8-2004	H40*1 1/4"F
	M-8-2005	H50*1 1/4"F
	M-8-2006	H50*1 1/2"F
	M-8-2007	H63*2"F
 Valve	M-8-2101	Q20
	M-8-2102	Q25
	M-8-2103	Q32
	M-8-2104	Q40
	M-8-2105	Q50
	M-8-2106	Q63
 Flange	M-8-1801	D50
	M-8-1802	D63
	M-8-1803	D75
	M-8-1804	D90
	M-8-1805	D110
	M-8-1806	D160

Product	Model No.	Spec.
 Valve	M-8-2201	Q20
	M-8-2202	Q25
	M-8-2203	Q32
	M-8-2204	Q40

 Union	M-8-2301	20
	M-8-2302	25
	M-8-2303	32
	M-8-2304	40

 Clamp	M-8-2401	20
	M-8-2402	25
	M-8-2403	32
	M-8-2404	40

 Clamp	M-8-2501	20
	M-8-2502	25
	M-8-2503	32
	M-8-2504	40

PE-X FITTINGS



- The fittings are suitable for connecting parts of PE-X pipes. The operating temperature is -20℃ to 95℃. The operating pressure is ≤ 1.0MPa.
- **Applicable Mediums:** Cold & hot water, or fluids which are not corrosive to brass.
- **Applicable Pipes:** PE-Xa, PE-Xb, PE-Xc
- The pipe insertion part size and sleeve size should be determined according to the wall thickness of the S6/S5/S4/S3.2 pipe series.

Product	Model No.	Spec.
 Compression Sleeve	M-11-0001	16mm
	M-11-0002	20mm
	M-11-0003	25mm
	M-11-0004	32mm
 Straight Connector	M-11-0101	16mm
	M-11-0103	20mm
	M-11-0104	25mm
	M-11-0105	32mm
 Reduced Connector	M-11-0202	20mm*16mm
	M-11-0204	25mm*16mm
	M-11-0206	25mm*20mm
	M-11-0210	32mm*25mm
 Female Straight Connector	M-11-0401	16*1/2"F
	M-11-0402	16 * 3/4"F
	M-11-0405	20*1/2"F
	M-11-0406	20 * 3/4"F
	M-11-0407	20 * 1"F
	M-11-0408	25 * 3/4"F
	M-11-0409	25 * 1"F
	M-11-0410	32 * 3/4"F
	M-11-0411	32* 1"F

Product	Model No.	Spec.
 Male Straight Connector	M-11-0301	16*1/2"M
	M-11-0302	16 * 3/4"M
	M-11-0307	20*1/2"M
	M-11-0308	20 * 3/4"M
	M-11-0309	20 * 1"M
	M-11-0311	25 * 3/4"M
	M-11-0312	25 * 1"M
	M-11-0313	32 * 3/4"M
	M-11-0314	32* 1"M
 Equal Elbow	M-11-0501	16mm
	M-11-0502	20mm
	M-11-0504	25mm
	M-11-0505	32mm
 Male Elbow	M-11-0701	16*1/2"M
	M-11-0702	16*3/4"M
	M-11-0704	20*1/2"M
	M-11-0705	20*3/4"M
	M-11-0707	25 * 3/4"M
	M-11-0708	25 * 1"M
	M-11-0709	32 * 3/4"M
	M-11-0710	32* 1"M
 Female Elbow	M-11-0801	16 * 1/2F"
	M-11-0802	16*3/4"F
	M-11-0805	20*1/2"F
	M-11-0806	20 * 3/4"F
	M-11-0808	25* 3/4"F
	M-11-0809	25* 1"F
	M-11-0810	32 * 3/4"F
	M-11-0811	32* 1"F

Product	Model No.	Spec.
 BP Elbow	M-11-1011	16"1/2"-65
	M-11-1012	16"1/2"-90
	M-11-1013	16"1/2"-95
	M-11-1014	16"1/2"-150
	M-11-1015	16"1/2"-200
	M-11-1016	20"3/4"-150
	M-11-1018	20" * 1/2 - 200
	M-11-1019	20" * 3/4 - 200

 Equal Tee	M-11-1101	16mm
	M-11-1103	20mm
	M-11-1104	25mm
	M-11-1105	32mm

 Reduced Tee	M-11-1207	20mm*16mm*20mm
	M-11-1213	25mm*20mm*25mm
	M-11-1218	20mm*16mm*16mm
	M-11-1219	20mm*20mm*16mm
	M-11-1220	25mm*25mm*16mm
	M-11-1221	25mm*25mm*20mm
	M-11-1223	25mm*20mm*20mm
	M-11-1224	25mm*20mm*16mm
	M-11-1225	25mm*16mm*20mm
	M-11-1240	32mm*32mm*25mm
	M-11-1241	32mm*25mm*25mm
	M-11-1242	25mm*16mm*16mm

Product	Model No.	Spec.
 Female Lugged Elbow	M-11-0901	16" * 1/2F"
	M-11-0902	16" * 3/4F"
	M-11-0904	20" * 1/2F"
	M-11-0905	20" * 3/4F"

 Stopper	M-11-1301	16
	M-11-1302	20
	M-11-1303	25
	M-11-1304	32

 Bath/laundry Breech Right Angle	M-11-1501	L16"5/8F(a)-200

 Braizing Tail(internal)	M-11-1601	16mm
	M-11-1602	20mm
	M-11-1603	25mm
	M-11-1604	32mm

 Braizing Tail(external)	M-11-1701	16mm
	M-11-1702	20mm
	M-11-1703	25mm
	M-11-1704	32mm

Product	Model No.	Spec.
 Shower Breech Right Angle	M-11-1502	L16*5/8F(a)-153
	M-11-1503	L16*5/8F(a)-200

 Shower Breech All Right Angle	M-11-1504	L16*5/8F(a)-200

SLIDING FITTINGS



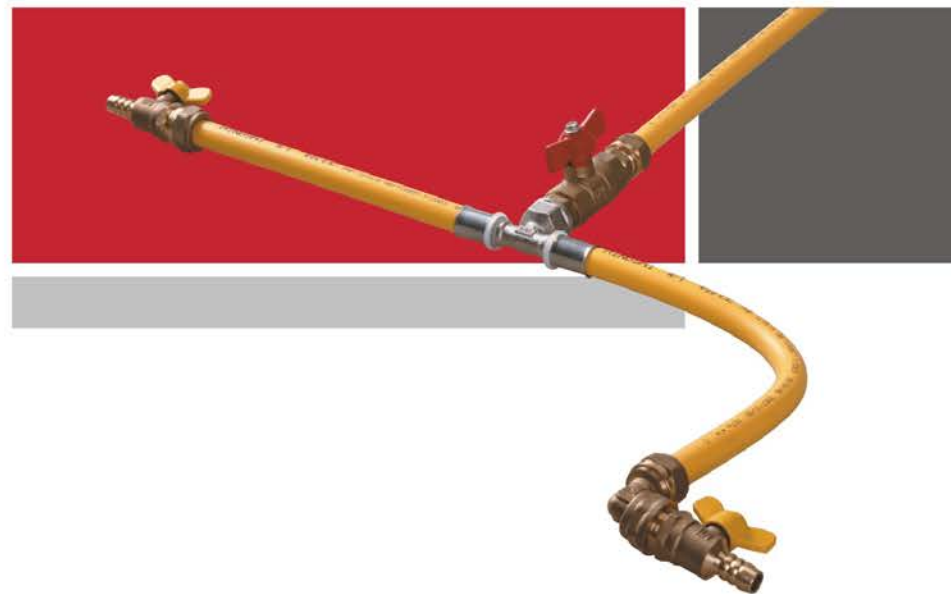
- The fittings are suitable for connecting parts of PE-X pipes. The operating temperature is -20℃ to 95℃. The operating pressure is ≤ 1.0 MPa.
- **Applicable Mediums:** Cold & hot water, or fluids which are not corrosive to brass.
- **Applicable Pipes:** PE-Xa, PE-Xb, PE-Xc
- The pipe insertion part size and sleeve size should be determined according to the wall thickness of the S6/S5/S4/S3.2 pipe series.

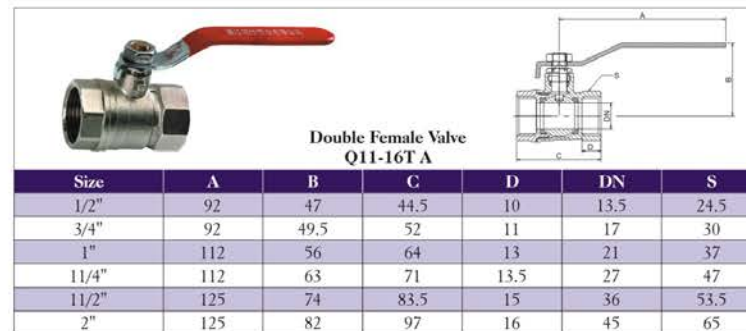
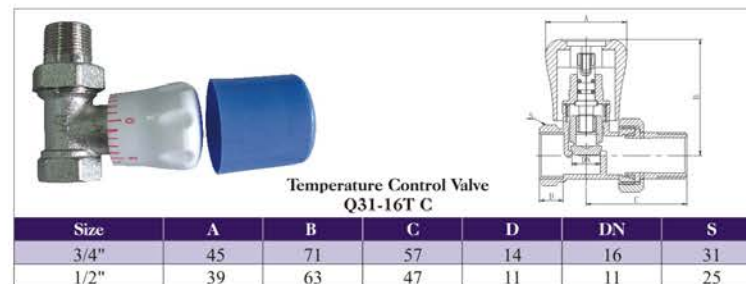
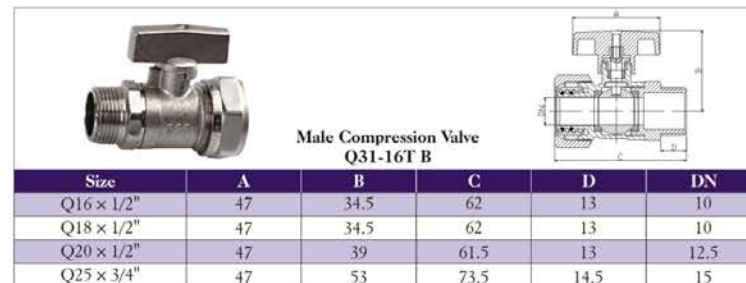
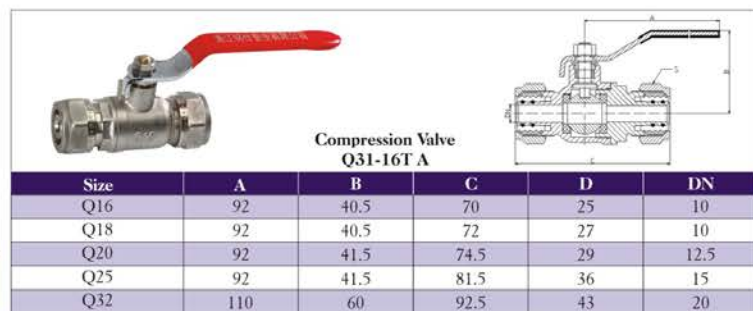
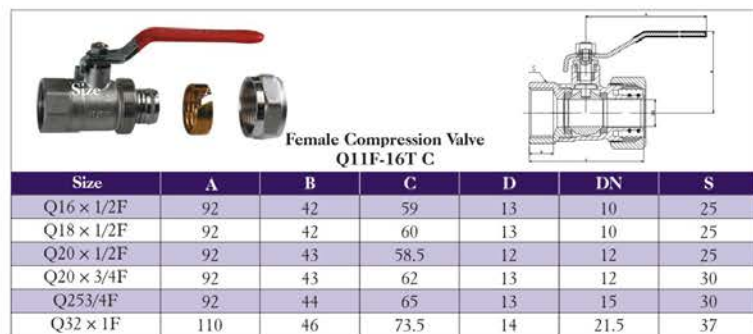
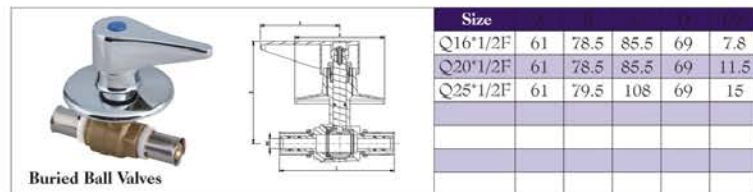
Product	Model No.	Spec.
	M-12-0001	Ø16x1,8
	M-12-0002	Ø20x1,9
	M-12-0003	Ø25x2,3
	M-12-0101	Ø16X1,8-½"
	M-12-0102	Ø16X1,8-¾"
	M-12-0103	Ø20X1,9-½"
	M-12-0104	Ø20X1,9-¾"
	M-12-0105	Ø16X1,8-3/8"
	M-12-0106	Ø25X2,3-½"
	M-12-0107	Ø25X2,3-1"
	M-12-0201	Ø20x1,9-Ø16X1,8
	M-12-0301	Ø16X1,8-½"
	M-12-0301	Ø20X1,9-½"

Product	Model No.	Spec.
	M-12-0401	Ø16x1,8-Ø14
	M-12-0402	Ø16x1,8-Ø16
	M-12-0403	Ø20x1,9-Ø18
	M-12-0501	Ø16x1,8-½"
	M-12-0502	Ø16x1,8-¾"
	M-12-0503	Ø20x1,9-½"
	M-12-0504	Ø20x1,9-¾"
	M-12-0505	Ø25x2,3-¾"
	M-12-0506	Ø16x1,8-3/8"
	M-12-0507	Ø25x2,3-1"
	M-12-0508	Ø32x2,9-1"
	M-12-0601	Ø16X1,8-Ø20X1,9-Ø16X1,8
	M-12-0602	Ø20X1,9-Ø16X1,8-Ø20X1,9
	M-12-0603	Ø20X1,9-Ø16X1,8-Ø16X1,8
	M-12-0604	Ø20X1,9-Ø20X1,9-Ø16X1,8
	M-12-0701	Ø16x1,8
	M-12-0702	Ø20X1,9
	M-12-0703	Ø25X2,3
	M-12-0801	Ø16x1,8
	M-12-0802	Ø20x1,9
	M-12-0803	Ø25x2,3

Product	Model No.	Spec.
 Straight Coupling	M-12-0901	Ø16x1,8
	M-12-0902	Ø20X1,9
	M-12-0903	Ø25X2,3
 90° elbow thread F	M-12-1001	Ø16X1,8-3/8"
	M-12-1002	Ø16X1,8-1/2"
	M-12-1003	Ø20X1,9-1/2"
 90° elbow thread M	M-12-1101	Ø16X1,8-1/2"
	M-12-1102	Ø20X1,9-1/2"
 90° elbow swivel nut	M-12-1201	Ø16X1,8-1/2"
	M-12-1202	Ø20X1,9-1/2"
	M-12-1203	Ø25X2,3-3/4"
 Female coupling	M-12-1301	Ø16X1,8-1/2"
	M-12-1302	Ø20X1,9-1/2"
	M-12-1303	Ø20X1,9-3/4"
	M-12-1304	Ø16X1,8-3/8"
	M-12-1305	Ø25X2,3-3/4"

BALL VALVE SERIES

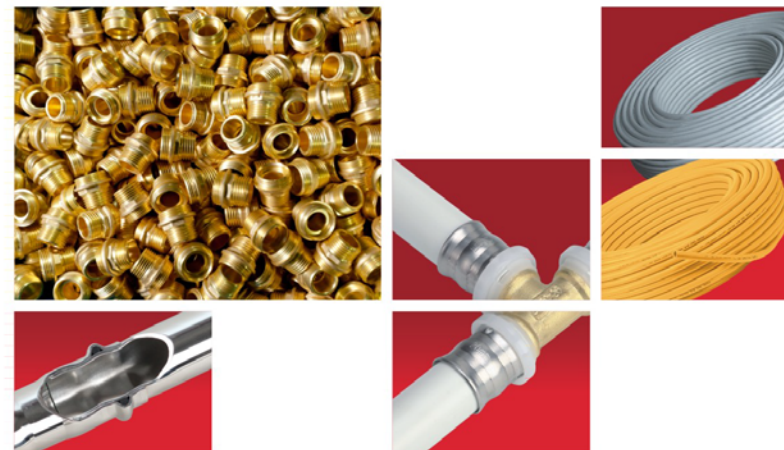






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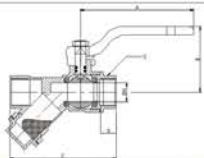


PRODUCT CATALOGUE

PIPES&FITTINGS / VALVES / STAINLESS STEEL PIPES & FITTINGS



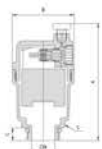
Filtering Valve
Q11-16T C



Size	A	B	C	D	DN	S
3/4"	84	46	94	12	19	30.5
1"	92	62	115	15	23	37



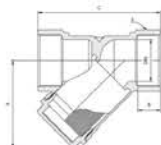
Automatic Exhausting Valve
Q11-16T D



Size	A	B	C	D	DN	S
1/2"	74	9.5	8		15	25



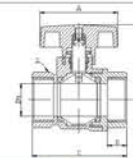
Filter
Q11-16T E



Size	A	B	C	D	DN	S
1/2"	42	11	55		15	25
3/4"	49	12.5	69		20	31
1"	53	15	78.5		25	37



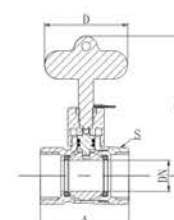
Double Female Valve
Q11F-20T A



Size	A	B	C	D	DN	S
1/2"	47	46	51	12.5	13.5	25
3/4"	47	48	58	13.5	19	30
1"	47	63	71.5	17.5	24	38



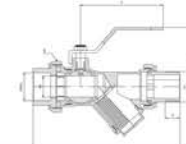
Lockable Ball Valve
Q11F-20T B



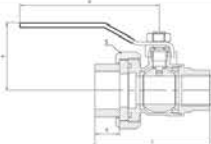
Size	A	B	D	DN	S
3/4"	58	93	58	19	30
1"	60	95	58	21.5	37
1 1/4"	71	97	78	27	47



PP-R Filtering Valve
Q21-16T C

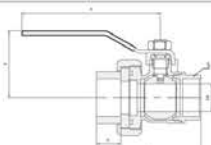


Size	A	B	C	D	DN	S
PPR32*H1M	103	62	166	15	23	55

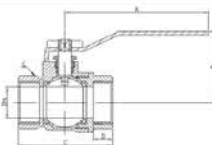
**PP-R Female Valve
Q21-16T D**

Size	A	B	C	D	DN	S
PPr20*1/2M	92	43	76.5	15	15	40
PPr25*3/4M	92	52	84.5	17	19	45
PPr25*1M	92	52	85	17	19	45
PPr32*1M	109	64	93.5	19.5	23	55

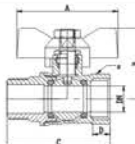
**PP-R Male Valve
Q21-16T E**

Size	A	B	C	D	DN	S
PPr20*1/2F	92	43	68.5	15	15	40
PPr25*3/4F	92	52	75	17	19	45
PPr32*1F	109	64	85.5	19.5	23	55

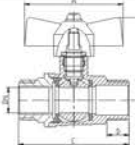
**Double Female Valve
Q11F-20T C**

Size	A	B	C	D	DN	S
1/2"	92	46	51	12.5	13.5	25
3/4"	92	48	58	13.5	19	30
1"	109	63	71.5	17.5	24	38

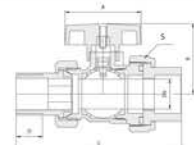
**Male and Female Valve
Q21-16T A**

Size	A	B	C	D	DN	S
1/2"	52	39	53	10	13.5	24.5
3/4"	52	41	60	11	17	30
1"	62	49	73	13	21	37

**Double Male Valve
Q21-16T B**

Size	A	B	C	D	DN
Q1/2"M x 1/2"M	53.5	39.5	61	12	13.5
Q1/2"M x 3/4"M	53.5	39.5	62	12	13.5

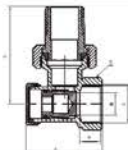



**PP-R Double Union Valve
Q21-16T F**

Size	A	B	C	D	DN	S
PPr20*1/2M	47	44.5	87.5	13	14	40
PPr25*3/4M	47	48	102.5	15	19	45
PPr32*1M	47	51	117	15	23	55



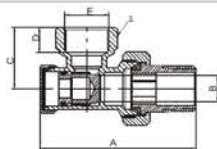
Return Lock-off Valve (Angle I)
J32W-16T A



Size	A	B	C	D	E	S
15	41.5	11	12	1/2	51	25
20	52	14	16	3/4	60	31



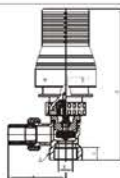
Return Lock-off Valve (Angle II)
J32W-16T B



Size	A	B	C	D	E	S
15	68	12	28.5	11	1/2	25
20	81	16	35	14	3/4	31



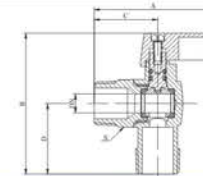
Automatic Temperature Control Valve (Angle)
J34X-16T A



Size	A	B	C	D	S
15	52	12	11	124	25
20	56.5	16	15	132	31



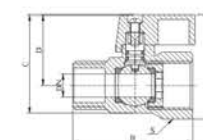
Angle Type Valve
Q11-16F



Size	A	B	C	D	DN	S
1/2"	58.5	67	31.5	34	9	22



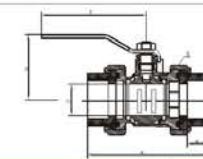
Male and Female Valve
Q11FM-16T



Size	A	B	C	D	DN	S
1/2"	45	52	42.5	30.5	10	26



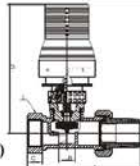
PP-R Union Valve
Q61F-16T



Size	A	B	C	D	E	S
Q20	89	15	15	43	92	40
Q25	98.5	17	19	52	92	45
Q32	115.5	19.5	23	64	109	55
Q40	127	22	32	74.5	109	67
Q50	149.5	25	40	85	128	84



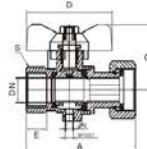
Automatic Temp Control Valve (Straight)
J31X-16T B



Size	A	B	C	D	S
15	82	12	11	108	25
20	86.5	16	15	113	31



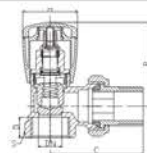
Temperature Union Valve
Q31F-16T



Size	A	B	C	D	DN	S
Q1/2"x3/4F	65	39.5	53.5	12.5	13.5	25
Q3/4"x1F	72	43.5	53.5	13	19	31
Q1"x1F	84	50	63	15	23	37



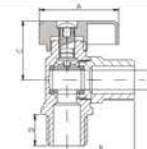
Angle Temperature Valve
J34W-16T



Size	A	B	C	D	DN	S
1/2"	46	60	63	11	11	25
3/4"	45	62	66	13	16	31



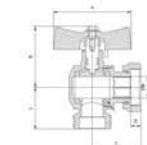
Temperature Valve
Q24-16T



Size	A	B	C	D	DN
1/2"x1/2"	38	41.5	37	13	10
1/2"x3/4"	38	41.5	37	13	10



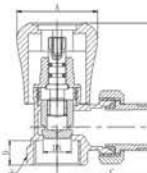
Male and Female Union Valve
Q21FM-16T



Size	A	B	C	D	DN	L
1/2"	54	40	33	8	15	29
3/4"	54	40	33	8	15	29



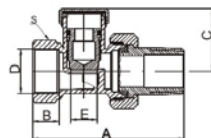
Angle Temperature Control Valve
T31-16T



Size	A	B	C	D	DN	S
3/4"	45	65	62	14	16	31
1/2"	39	55	49	11	11	25



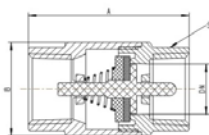
Return Lock-off Valve (Straight)
J31W-16T



Size	A	B	C	D	E	S
15	65.5	12	26	1/2	12	25
20	79	14	34	3/4	16	31



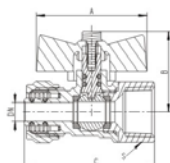
Check Valve



Size	A	B	C	D	E	S	DN
1/2F	28.5						



Female Compression Ball Valves



Size	A	B	C	D	E	S
Q16*1/2F	50	34.5	56	8	25	
Q18*1/2F	50	36	59	9.5	25	
Q20*1/2F	50	37	59	11.5	25	
Q25*1/2F	50	38	64	15	25	

Gas Ball Valve Series

Mingshi "QF-Q" Series Gas Ball Valves are suitable for switch control in the gas pipelines whose operating mediums are LPG, LNG and so on.



QF-Q11F (16T)
(Gas Ball Valve) №MSQF030

Product No.	QF-Q11F (16T)
PN	1.6MPa(200psi)
DN	13.5-45mm
Export Connection Type	1/2、3/4、1、1.1/2、2" F
Pressure Test Standard	ISO5208
Suitable Medium	CNG、gas
Surface Processing	Shot blasting or pickling
Body Material	HPh59-1
Working Temperature	-30℃ ~ 120℃
Specifications	DN15 ~ DN50



QF-Q11F (25T)
(Gas Ball Valve) №MSQF031

Product No.	QF-Q11F (25T)
PN	2.5MPa
DN	19-45mm
Export Connection Type	1/2、3/4、1、1.1/2、2" F
Pressure Test Standard	ISO5208
Suitable Medium	CNG、Gas
Surface Processing	Shot blasting or pickling
Body Material	HPh59-1
Working Temperature	-30℃ ~ 120℃
Specifications	DN20 ~ DN50

	Product No.	QF-Q19 (16M)
	PN	1.6MPa(200psi)
	DN	≥ Φ8mm
	Export Connection Type	Direct
	Inlet Connecting Thread	1/2NPT
	Suitable Medium	CNG, gas
	Surface Processing	Shot blasting or pickling
	Body Material	HPb59-1
	Working Temperature	-30℃ ~ 120℃
	Specifications	1/2"
QF-Q19 (16M) (Gas Ball Valve) NoMSQF032		

	Product No.	QF-Q19 (16F)
	PN	1.6MPa(200psi)
	DN	≥ Φ8mm
	Export Connection Type	Direct
	Inlet Connecting Thread	1/2NPT
	Suitable Medium	CNG, gas
	Surface Processing	Shot blasting or pickling
	Body Material	HPb59-1
	Working Temperature	-30℃ ~ 120℃
	Specifications	1/2"
QF-Q19 (16F) (Gas Ball Valve) NoMSQF033		

	1/4"(PN40)	PN	4.0MPa
	3/8"(PN40)	DN	8~10
		Export Connection Type	1/4", 3/8" BSP or NPT
		Pressure Test Standard	ISO5208
		Suitable Medium	CNG gas
		Surface Processing	Customized
		Body Material	HPb59-1
		Working Temperature	-20℃ ~ 60℃
		Specifications	1/4"~3/8"
Double female Ball Valves			

	DN15(PN16)	PN	1.6MPa
	DN20(PN16)	DN	15~20
		Export Connection Type	1/2", 3/4" BSP or NPT
		Pressure Test Standard	ISO5208
		Suitable Medium	CNG gas
		Surface Processing	Customized
		Body Material	HPb59-1
		Working Temperature	-20℃ ~ 60℃
		Specifications	1/2"~3/4"
Double female Ball Valves			

	DN25(PN25)	PN	2.5MPa
	DN32(PN25)	DN	25~50
	DN40(PN25)	Export Connection Type	1", 1 1/4", 1 1/2", 2" BSP or NPT
	DN50(PN25)	Pressure Test Standard	ISO5208
		Suitable Medium	CNG gas
		Surface Processing	Customized
		Body Material	HPb59-1
		Working Temperature	-20℃ ~ 60℃
		Specifications	1"~2"
Double female Ball Valves			

	Product No.	QF-Q19 (16T)
	PN	1.6MPa(200psi)
	DN	≥ Φ8mm
	Export Connection Type	Direct
	Pressure Test Standard	ISO5208
	Suitable Medium	CNG, gas
	Surface Processing	Shot blasting or pickling
	Body Material	HPb59-1
	Working Temperature	-30℃ ~ 120℃
	Specifications	1/2"
QF-Q19 (16T) (Gas Ball Valve) NoMSQF029		



Union-Press Ball Valves

20mmX 3/4 F	PN	1050KPa
25mmX 3/4 F	Export Connection Type	Press Connection
	Inlet Connecting Thread	3/4BSP
	Pressure Test Standard	ISO5208
	Suitable Medium	CNG gas
	Surface Processing	Customized
	Body Material	HPh59-1
	Working Temperature	-20℃~60℃
	Specifications	20~25



Press Ball Valves

DN16	PN	4.0MPa
DN20	Export Connection Type	Press Connection
DN25	Pressure Test Standard	ISO5208
	Suitable Medium	CNG gas
	Surface Processing	Customized
	Body Material	HPh59-1
	Working Temperature	-20℃~60℃
	Specifications	16~25



Magnetic Lock Female Ball Valves

1/2"	PN	1.6MPa
3/4"	DN	15~20
	Export Connection Type	1/2", 3/4" BSP or NPT
	Pressure Test Standard	ISO5208
	Suitable Medium	CNG gas
	Surface Processing	Customized
	Body Material	HPh59-1
	Working Temperature	-20℃~60℃
	Specifications	1/2"~3/4"



Magnetic Lock Female Ball Valves

1"	PN	2.5MPa
1 1/4"	DN	25~32
	Export Connection Type	1", 1 1/4" BSP or NPT
	Pressure Test Standard	ISO5208
	Suitable Medium	CNG gas
	Surface Processing	Customized
	Body Material	HPh59-1
	Working Temperature	-20℃~60℃
	Specifications	1"~1 1/4"

GAS CYLINDER VALVES



The gas cylinder valve product, specially used for gas cylinders, is the collective name for various valves carrying out the switch & flow control for gas cylinders, referring to liquefied petroleum gas cylinder valves, dissolved acetylene cylinder valves, oxygen cylinder valves, argon cylinder valves, liquid chlorine cylinder valves, liquid ammonia cylinder valves, industrial non-refillable cylinder valves, compressed natural gas cylinder valves for vehicles, liquefied petroleum gas steel cylinder integrated valves for motor vehicles, refillable refrigerant cylinder valves, etc.



LPG Cylinder Valve Series

Mingshi "YSF/YSQ/YJF" Series LPG Cylinder Valves are suitable for switching gas flow on the cylinders whose operating medium is Liquefied Petroleum Gas (LPG) with operating pressure $\leq 2.5\text{MPa}$ and environmental temperature of -40°C to 60°C .



YSQ-1
LPG Cylinder valve

Product Type	YSQ-1
Gas Service	Liquefied Petroleum Gas
Working Pressure	2.5MPa
Orifice Diameter	$\geq \phi 7\text{mm}$
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	M22*1.5LH
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	345



YSQ-1A
LPG Cylinder valve

Product Type	YSQ-1A
Gas Service	Liquefied Petroleum Gas
Working Pressure	2.5MPa
Orifice Diameter	$\geq \phi 5\text{mm}$
Body Material	Brass
Inlet Thread	PZ19.2/W19.8/17E
Outlet Thread	M22*1.5LH
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	255



YSQ-1B
LPG Cylinder valve

Product Type	YSQ-1B
Gas Service	Liquefied Petroleum Gas
Working Pressure	2.5MPa
Orifice Diameter	$\geq \phi 7\text{mm}$
Body Material	Brass
Inlet Thread	ZM26*2
Outlet Thread	W20-14LH
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	205



YSQ-3
LPG Cylinder valve

Product Type	YSQ-3
Gas Service	Liquefied Petroleum Gas
Working Pressure	2.5MPa
Orifice Diameter	$\geq \phi 7\text{mm}$
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	M22*1.5LH
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	340



YSQ-3A
LPG Cylinder valve

Product Type	YSQ-3A
Gas Service	Liquefied Petroleum Gas
Working Pressure	2.5MPa
Orifice Diameter	$\geq \phi 5\text{mm}$
Body Material	Brass
Inlet Thread	PZ19.2/W19.8/17E
Outlet Thread	M22*1.5LH
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	250



YSQ-4
LPG Cylinder valve

Product Type	YSQ-4
Gas Service	Liquefied Petroleum Gas
Working Pressure	1.7MPa
Orifice Diameter	$\geq \phi 7\text{mm}$
Body Material	Brass
Inlet Thread	3/4-14NGT
Outlet Thread	Optional PZ27.8/W28.8/25E CGA510
Pressure of Safety Device	2.86~3.12MPa(5m3/min)
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	360



YSQ-6
LPG Cylinder valve

Product Type	YSQ-6
Gas Service	Liquefied Petroleum Gas
Working Pressure	1.7MPa
Orifice Diameter	≥ø7mm
Body Material	Brass
Inlet Thread	3/4-14NGT
Outlet Thread	CGA510
Pressure of Safety Device	2.86~3.12MPa (10m3/min)
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+60℃
Design Weight (g/pcs)	370



YSQ-1E
LPG Cylinder valve

Product Type	YSQ-1E
Gas Service	Liquefied Petroleum Gas
Working Pressure	2.5MPa
Orifice Diameter	≥ø7mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E (optional PZ19.2/W19.8/17E)
Outlet Thread	W21.8"1/14-LH
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+60℃
Design Weight (g/pcs)	245



YSQ-8
LPG Cylinder valve

Product Type	YSQ-8
Gas Service	Liquefied Petroleum Gas
Working Pressure	2.5MPa
Orifice Diameter	≥ø7mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	W21.8"1/14-LH
Pressure of Safety Device	2.86~3.12MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+60℃
Design Weight (g/pcs)	310



YSQ-8A
LPG Cylinder valve

Product Type	YSQ-8A
Gas Service	Liquefied Petroleum Gas
Working Pressure	2.5MPa
Orifice Diameter	≥ø7mm
Body Material	Brass
Inlet Thread	PZ19.2/W19.8/17E
Outlet Thread	W21.8"1/14-LH
Pressure of Safety Device	2.86~3.12MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+60℃
Design Weight (g/pcs)	245



YSF-4D
LPG Cylinder valve

Product Type	YSF-4D
Gas Service	Liquefied Petroleum Gas
Working Pressure	1.7MPa
Orifice Diameter	≥ø6.5mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E (Optional 3/4NGT, 1"BS341)
Outlet Thread	Ø20mm (optional Ø21mm, Ø22mm)
Pressure of Safety Device	2.8~3.1MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+60℃
Design Weight (g/pcs)	220



YSF-4E
LPG Cylinder valve

Product Type	YSF-4E
Gas Service	Liquefied Petroleum Gas
Working Pressure	1.7MPa
Orifice Diameter	≥ø6.5mm
Body Material	Brass
Inlet Thread	3/4NGT
Outlet Thread	Ø27mm
Pressure of Safety Device	2.8~3.1MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+60℃
Design Weight (g/pcs)	240

 YSF-4H LPG Cylinder valve	Product Type	YSF-4H
	Gas Service	Liquefied Petroleum Gas
	Working Pressure	1.7MPa
	Orifice Diameter	≥φ6.5mm
	Body Material	Brass
	Inlet Thread	3/4NGT
	Outlet Thread	Ø19mm
	Pressure of Safety Device	2.86~3.12MPa
	Surface Treatment	Shot Blasting or Pickling
	Working Temperature	-40℃~+60℃
	Design Weight (g/pcs)	220
 YSF-8A LPG Cylinder valve	Product Type	YSF-8A
	Gas Service	Liquefied Petroleum Gas
	Working Pressure	1.7MPa
	Orifice Diameter	≥φ6mm
	Body Material	Brass
	Inlet Thread	PZ27.8/W28.8/25E (Optional 3/4NGT, 1"BS341)
	Outlet Thread	Ø20mm (optional Ø21mm, Ø22mm)
	Surface Treatment	Shot Blasting or Pickling
	Working Temperature	-40℃~+60℃
	Design Weight (g/pcs)	220
 YSQ-1D LPG Cylinder valve	Product Type	YSF-1D
	Gas Service	Liquefied Petroleum Gas
	Working Pressure	2.7MPa
	Orifice Diameter	≥φ2.5mm
	Body Material	Brass
	Inlet Thread	1/2-14NGT
	Outlet Thread	G3/8
	Surface Treatment	Shot Blasting or Pickling
	Safety Device	Manual Relief Device
	Working Temperature	-40℃~+60℃
	Design Weight (g/pcs)	200
 YSF-4T LPG Cylinder valve	Product Type	YSF-4T
	Gas Service	Liquefied Petroleum Gas
	Working Pressure	1.8MPa
	Orifice Diameter	≥φ8mm
	Body Material	Brass
	Inlet Thread	M22*1.25
	Outlet Thread	M16*1.5
	Surface Treatment	Shot Blasting or Pickling
	Working Temperature	-40℃~+60℃
	Design Weight (g/pcs)	52

CNG Cylinder Valve Series for Vehicles

Mingshi "CTF" Series Compressed Natural Gas Cylinder Valves for Vehicles are suitable for switching gas flow on the cylinders whose operating medium is Compressed Natural Gas (CNG) with the operating pressure ≤ 20MPa.

 CTF-1 CNG Cylinder Valve for Vehicle	Product Type	CTF-1
	Gas Service	Compressed Nature Gas for Vehicle
	Working Pressure	20MPa
	Orifice Diameter	≥φ5mm
	Body Material	Brass
	Inlet Thread	PZ27.8/W28.8/25E (Optional 1"1/8UNF, 1"BS341; 3/4NGT)
	Outlet Internal Thread	1/4NPT (Optional M12*1)
	Outlet External Thread	G1/2
	Pressure of Safety Device/ Temperature of Safety Device	30~33MPa/ 110℃±5℃
	Surface Treatment	Shot Blasting or Pickling
	Working Temperature	-40℃~+85℃
	Design Weight (g/pcs)	580
	Optional	With Excess flow Limiter
 New CTF-1A CNG Cylinder Valve for Vehicle	Product Type	CTF-1A
	Gas Service	Compressed Nature Gas for Vehicle
	Working Pressure	20MPa
	Orifice Diameter	≥φ5mm
	Body Material	Brass
	Inlet Thread	PZ27.8/W28.8/25E (Optional 1"1/8UNF, 1"BS341; 3/4NGT)
	Outlet Internal Thread	1/4NPT (Optional M12*1)
	Outlet External Thread	G1/2
	Pressure of Safety Device/ Temperature of Safety Device	30~33MPa/ 110℃±5℃
	Surface Treatment	Shot Blasting or Pickling
	Working Temperature	-40℃~+85℃
	Design Weight (g/pcs)	565
	Optional	With Excess Flow Limiter



QF-5T
CNG Cylinder Valve for Vehicle

Product Type	QF-5T
Gas Service	Compressed Nature Gas for Vehicle
Working Pressure	20MPa
Orifice Diameter	≥ø4mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	W21.8"1/14-LH
Pressure of Safety Device/ Temperature of Safety Device	30~33MPa/ 110°C±5°C
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40°C~+85°C
Design Weight (g/pcs)	560
Optional	With Excess flow Limiter



CTF-X1
CNG Cylinder Valve for Vehicle

Product Type	CTF-X1
Gas Service	Compressed Nature Gas for Vehicle
Working Pressure	20MPa
Orifice Diameter	≥ø7mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E (Optional 1"1/8UNF; 1"BS341; 3/4NGT)
Outlet Internal Thread	M12"1 (Optional 1/4NPT)
Outlet External Thread	G1/2
Pressure of Safety Device/ Temperature of Safety Device	30~33MPa/ 110°C±5°C
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40°C~+85°C
Design Weight (g/pcs)	485
Optional	With Excess Flow Limiter



New QF-T3H
CNG Filling Valve for Vehicle

Product Type	QF-T3H
Gas Service	Compressed Nature Gas for Vehicle
Working Pressure	20MPa
Orifice Diameter	≥ø5mm
Body Material	Brass
Inlet Connection	Ø12mm
Outlet Connection	2-Ø6mm
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40°C~+85°C
Design Weight (g/pcs)	360



CTF-3
CNG Cylinder Valve for Vehicle

Product Type	CTF-3
Gas Service	Compressed Nature Gas for Vehicle
Working Pressure	20MPa
Orifice Diameter	≥ø7mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E (Optional 1"1/8UNF; 1"BS341; 3/4NGT)
Outlet Internal Thread	M12"1 (Optional 1/4NPT)
Pressure of Safety Device/ Temperature of Safety Device	30+3MPa/ 110°C±5°C
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40°C~+85°C
Design Weight (g/pcs)	425
Optional	With Excess flow Limiter



QF-8T
CNG Cylinder Valve for Vehicle

Product Type	QF-8T
Gas Service	Compressed Nature Gas for Vehicle
Working Pressure	20MPa
Orifice Diameter	≥ø5mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E (Optional 1"1/8UNF; 1"BS341; 3/4NGT)
Outlet Internal Thread	M12"1 (Optional 1/4NPT)
Outlet External Connection With Venting system	Smooth Ø30mm
Pressure of Safety Device/ Temperature of Safety Device	30+3MPa/ 110°C±5°C
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40°C~+85°C
Design Weight (g/pcs)	660
Optional	With Excess Flow Limiter

Industrial Gas Cylinder Valve Series

Mingshi "QF" Series Oxygen Cylinder Valves are suitable for switching gas flow on the cylinders whose operating mediums are oxygen, nitrogen, air and other high-purity gases with the operating pressure $\leq 15\text{MPa}$ to 30MPa.



QF-2
Oxygen Cylinder Valve

Product Type	QF-2
Gas Service	Oxygen, Air, Nitrogen
Working Pressure	15MPa
Orifice Diameter	$\phi 4\text{mm}$
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G5/8
Pressure of Safety Device	20.25~22.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	580



QF-2A
Carbon Dioxide Cylinder Valve

Product Type	QF-2A
Gas Service	Carbon Dioxide
Working Pressure	15MPa
Orifice Diameter	$\geq \phi 7\text{mm}$
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G5/8
Pressure of Safety Device	20.25~22.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	540



QF-2C
Oxygen Cylinder Valve

Product Type	QF-2C
Gas Service	Oxygen, Air, Nitrogen
Working Pressure	15MPa
Orifice Diameter	$\phi 4\text{mm}$
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G5/8
Pressure of Safety Device	Without
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	520



QF-2D
Oxygen Cylinder Valve

Product Type	QF-2D
Gas Service	Oxygen, Air, Nitrogen
Working Pressure	15MPa
Orifice Diameter	$\phi 4\text{mm}$
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G5/8
Pressure of Safety Device	20.25~22.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	410



QF-5
Oxygen Cylinder Valve

Product Type	QF-5
Gas Service	Oxygen, Air, Nitrogen
Working Pressure	20MPa
Orifice Diameter	$\phi 4\text{mm}$
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G5/8
Pressure of Safety Device	27~30MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	520



QF-5D
Oxygen Cylinder Valve

Product Type	QF-5D
Gas Service	Oxygen, Air, Nitrogen
Working Pressure	20MPa
Orifice Diameter	$\phi 4\text{mm}$
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G5/8
Pressure of Safety Device	27~30MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Design Weight (g/pcs)	410



QF-2G1
Oxygen Cylinder Valve

Product Type	QF-2G1
Gas Service	Oxygen, Air, Nitrogen
Working Pressure	15MPa
Orifice Diameter	ø4mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G5/8(Internal Thread)
Pressure of Safety Device	20.25~22.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+60℃
Design Weight (g/pcs)	610



QF-8A
Oxygen Cylinder Valve

Product Type	QF-8A
Gas Service	Oxygen, Air, Nitrogen
Working Pressure	15MPa
Orifice Diameter	ø4mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	W21.8-14
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+60℃
Design Weight (g/pcs)	490



PX-32
Argon Cylinder Valve

Product Type	PX-32
Gas Service	Argon
Working Pressure	15MPa
Orifice Diameter	ø4mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G5/8
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+60℃
Design Weight (g/pcs)	430



QF-13
Propane Cylinder Valve

Product Type	QF-13
Gas Service	Propane
Working Pressure	2MPa
Orifice Diameter	≥ø6mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G3/4
Pressure of Safety Device	Without
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+120℃
Design Weight (g/pcs)	500

Refrigerants Cylinder Valves

Mingshi "QF" Series Refrigerants Cylinder Valves are suitable for switch control the flow of refrigerants including R410,R406, R134a, R404, R507, R22, R12 and their mixed medium, whose nominal working pressure is < 3.2 MPa, and the environment temperature is -20℃ to +65℃.



QF-13
Refrigerant Cylinder Valve

Product Type	QF-13
Gas Service	Refrigerant
Working Pressure	2MPa
Orifice Diameter	≥ø6mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G3/4
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+120℃
Design Weight (g/pcs)	500



QF-13B
Refrigerant Cylinder Valve

Product Type	QF-13B
Gas Service	Refrigerant
Working Pressure	3.2MPa
Orifice Diameter	Q4mm/ ø6mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	W26-16/W20-14
Temperature of Safety Device	100℃±5℃
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-20℃~+65℃
Design Weight (g/pcs)	900



QF-13D
Refrigerant Cylinder Valve

Product Type	QF-13D
Gas Service	Refrigerant
Working Pressure	3.2MPa
Orifice Diameter	≥ø6mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G5/8
Pressure of Safety Device	3.9~4.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-20℃~+65℃
Design Weight (g/pcs)	920



QF-13E
Refrigerant Cylinder Valve

Product Type	QF-13E
Gas Service	Refrigerant
Working Pressure	3.2MPa
Orifice Diameter	ø5mm
Body Material	Brass
Inlet Thread	PZ19.2/W19.8/17E
Outlet Thread	7/16-20UNF
Pressure of Safety Device	3.9~4.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-20℃~+65℃
Design Weight (g/pcs)	212



QF-13Y
Refrigerant Cylinder Valve

Product Type	QF-13Y
Gas Service	Refrigerant
Working Pressure	3.2MPa
Orifice Diameter	Q4mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	7/16-20UNF
Pressure of Safety Device	3.9~4.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-20℃~+65℃
Design Weight (g/pcs)	388



QF-13YA
Refrigerant Cylinder Valve

Product Type	QF-13YA
Gas Service	Refrigerant
Working Pressure	3.2MPa
Orifice Diameter	Q4mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	7/16-20UNF
Pressure of Safety Device	3.9~4.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-20℃~+65℃
Design Weight (g/pcs)	410



QF-13YB
Refrigerant Cylinder Valve

Product Type	QF-13YB
Gas Service	Refrigerant
Working Pressure	3.2MPa
Orifice Diameter	Ø4mm
Body Material	Brass
Inlet Thread	3/4-14NPT
Outlet Thread	7/16-20UNF
Pressure of Safety Device	3.9~4.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-20℃~+65℃
Design Weight (g/pcs)	390



QF-10
Liquid Chlorine Cylinder Valve

Product Type	QF-10
Gas Service	Liquid Chlorine
Working Pressure	2MPa
Orifice Diameter	≥ø6mm
Body Material	ZcuAL10-Fe3
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G3/4
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-40℃~+120℃
Design Weight (g/pcs)	500



QF-310
Refrigerant Cylinder Valve

Product Type	QF-310
Gas Service	Refrigerant
Working Pressure	3.2MPa
Orifice Diameter	Ø8mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	G3/4
Pressure of Safety Device	3.9~4.5MPa
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-20℃~+65℃
Design Weight (g/pcs)	405



QF-13C
Refrigerant Cylinder Valve

Product Type	QF-13C
Gas Service	Refrigerant
Working Pressure	3.2MPa
Orifice Diameter	Ø8mm
Body Material	Brass
Inlet Thread	3/4NGT
Outlet Thread	CGA660
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-20℃~+65℃
Design Weight (g/pcs)	460



QF-13YK
Refrigerant Cylinder Valve

Product Type	QF-13YK
Gas Service	Refrigerant
Working Pressure	3.2MPa
Orifice Diameter	Ø4mm
Body Material	Brass
Inlet Thread	PZ27.8/W28.8/25E
Outlet Thread	7/16-20UNF
Surface Treatment	Shot Blasting or Pickling
Working Temperature	-20℃~+65℃
Design Weight (g/pcs)	380



MANIFOLDS



M93 Automatic Compartment Control Type Manifold



Technical Index

- Caliber: D25
- Nominal Pressure: PN10
- Applicable Medium: Water, Air
- Operating Voltage: AC24, 110V, 230V
- Power Consumption: 5W
- Room Temperature Control Range: 5-35°C (± 2)
- Whole-Valve Opening Time: 3-5min

Product Features

The product adopts the automatic + manual + energy conservation + weekly program control. Water distributor and water collector are equipped with automatic exhaust valves and drain ball valves. Filter ball valves are installed on water distributor and temperature measurement loose joint ball valves are mounted on water collector. Every branch (area) is furnished with the temperature controller and electrical actuator. Different temperatures can be set. When the room temperature reaches the set temperature, the electrical actuator will be closed. When the room temperature is lower than the set temperature, the electrical actuator will be opened.

- High-density forging brass;
- The branch joint can use the compression simple joint, compression union Φ16 or Φ20;
- 2-12 branches can be available;
- The water collector can be equipped with the temperature measurement union ball valve, which is convenient to read the outlet temperature.

Compression Simple Joint (20)		Compression Union (16)		Compression Union (20)	
Model	Spec.	Model	Spec.	Model	Spec.
M-7-2402	ZFa1F×S20-2	M-7-2502	ZFa1F×H16-2	M-7-2602	ZFa1F×H20-2
M-7-2403	ZFa1F×S20-3	M-7-2503	ZFa1F×H16-3	M-7-2603	ZFa1F×H20-3
M-7-2404	ZFa1F×S20-4	M-7-2504	ZFa1F×H16-4	M-7-2604	ZFa1F×H20-4
M-7-2405	ZFa1F×S20-5	M-7-2505	ZFa1F×H16-5	M-7-2605	ZFa1F×H20-5
M-7-2406	ZFa1F×S20-6	M-7-2506	ZFa1F×H16-6	M-7-2606	ZFa1F×H20-6
M-7-2407	ZFa1F×S20-7	M-7-2507	ZFa1F×H16-7	M-7-2607	ZFa1F×H20-7
M-7-2408	ZFa1F×S20-8	M-7-2508	ZFa1F×H16-8	M-7-2608	ZFa1F×H20-8
M-7-2409	ZFa1F×S20-9	M-7-2509	ZFa1F×H16-9	M-7-2609	ZFa1F×H20-9
M-7-2410	ZFa1F×S20-10	M-7-2510	ZFa1F×H16-10	M-7-2610	ZFa1F×H20-10
M-7-2411	ZFa1F×S20-11	M-7-2511	ZFa1F×H16-11	M-7-2611	ZFa1F×H20-11
M-7-2412	ZFa1F×S20-12	M-7-2512	ZFa1F×H16-12	M-7-2612	ZFa1F×H20-12

Product	Code	Diameter
	Spec.	Spec.
	ZFa1F×QH16-2	ZFa1F×QH20-2
	ZFa1F×QH16-3	ZFa1F×QH20-3
	ZFa1F×QH16-4	ZFa1F×QH20-4
	ZFa1F×QH16-5	ZFa1F×QH20-5
	ZFa1F×QH16-6	ZFa1F×QH20-6
	ZFa1F×QH16-7	ZFa1F×QH20-7
	ZFa1F×QH16-8	ZFa1F×QH20-8
	ZFa1F×QH16-9	ZFa1F×QH20-9
	ZFa1F×QH16-10	ZFa1F×QH20-10
	ZFa1F×QH16-11	ZFa1F×QH20-11
	ZFa1F×QH16-12	ZFa1F×QH20-12

M97

	Stainless steel Manifold-2(Q20B)
	Stainless steel Manifold-3(Q20B)
	Stainless steel Manifold-4(Q20B)
	Stainless steel Manifold-5(Q20B)
	Stainless steel Manifold-6(Q20B)
	Stainless steel Manifold-7(Q20B)
	Stainless steel Manifold-8(Q20B)
	Stainless steel Manifold-9(Q20B)
	Stainless steel Manifold-10(Q20B)
	Stainless steel Manifold-11(Q20B)
	Stainless steel Manifold-12(Q20B)

M101

	Stainless steel Manifold-2-F
	Stainless steel Manifold-3-F
	Stainless steel Manifold-4-F
	Stainless steel Manifold-5-F
	Stainless steel Manifold-6-F
	Stainless steel Manifold-7-F
	Stainless steel Manifold-8-F
	Stainless steel Manifold-9-F
	Stainless steel Manifold-10-F
	Stainless steel Manifold-11-F
	Stainless steel Manifold-12-F

M102

	Stainless steel Manifold-2-M
	Stainless steel Manifold-3-M
	Stainless steel Manifold-4-M
	Stainless steel Manifold-5-M
	Stainless steel Manifold-6-M
	Stainless steel Manifold-7-M
	Stainless steel Manifold-8-M
	Stainless steel Manifold-9-M
	Stainless steel Manifold-10-M
	Stainless steel Manifold-11-M
	Stainless steel Manifold-12-M

M103

Product	Code	Diameter
	Spec.	Spec.
	ZFa1F×QH20-2	ZFa1F×QH25-2
	ZFa1F×QH20-3	ZFa1F×QH25-3
	ZFa1F×QH20-4	ZFa1F×QH25-4
	ZFa1F×QH20-5	ZFa1F×QH25-5
	ZFa1F×QH20-6	ZFa1F×QH25-6
	ZFa1F×QH20-7	ZFa1F×QH25-7
	ZFa1F×QH20-8	ZFa1F×QH25-8
	ZFa1F×QH20-9	ZFa1F×QH25-9
	ZFa1F×QH20-10	ZFa1F×QH25-10
	ZFa1F×QH20-11	ZFa1F×QH25-11
	ZFa1F×QH20-12	ZFa1F×QH25-12

M98

	Spec.	Spec.
	ZFa1F×Q16-2	ZFa1F×Q20-2
	ZFa1F×Q16-3	ZFa1F×Q20-3
	ZFa1F×Q16-4	ZFa1F×Q20-4
	ZFa1F×Q16-5	ZFa1F×Q20-5
	ZFa1F×Q16-6	ZFa1F×Q20-6
	ZFa1F×Q16-7	ZFa1F×Q20-7
	ZFa1F×Q16-8	ZFa1F×Q20-8

M99

	Spec.	Spec.
	ZFa1F×S16-2	ZFa1F×S20-2
	ZFa1F×S16-3	ZFa1F×S20-3
	ZFa1F×S16-4	ZFa1F×S20-4
	ZFa1F×S16-5	ZFa1F×S20-5
	ZFa1F×S16-6	ZFa1F×S20-6
	ZFa1F×S16-7	ZFa1F×S20-7
	ZFa1F×S16-8	ZFa1F×S20-8

M100

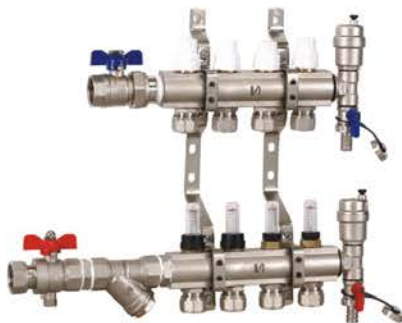
	Spec.	Spec.
	Manifold-2	MF3/4-BM1/2
	Manifold-3	MF3/4-BM1/2
	Manifold-4	MF3/4-BM1/2

M104

	Spec.	Spec.
	Manifold-2	MF3/4-BM1/2
	Manifold-3	MF3/4-BM1/2
	Manifold-4	MF3/4-BM1/2

M105

M94 Economic Manual Compartment Control Type Manifold



Technical Index

- Caliber: D25
- Nominal Pressure: PN10
- Applicable Medium: Water, Air
- Medium Temperature: 1-110°C (Not more than 35°C)
- Room Temperature Control Range: 5-35°C (± 2)

Product Features

Energy conservation and environment protection water distributor and water collector are equipped with automatic exhaust valves and drain ball valves. On the inlet and outlet positions, the devices can be connected to many kinds of products like filter ball valves, locking side-filter ball valves and ball valves. The upper rod is furnished with the manual adjusting handle to adjust the flow rate and indoor temperature. The lower rod is equipped with the water flow regulator to observe the inflow rate and adjust the flow rate so as to reduce the cost and ensure the comfortable indoor environment.

- High-density forging brass;
- The branch joint can use the compression simple joint, compression union $\Phi 16$ or $\Phi 20$;
- 2-12 branches can be available;
- The water collector can be equipped with the temperature measurement union ball valve, which is convenient to read the outlet temperature.

Compression Simple Joint (20)		Compression Union (16)		Compression Union (20)	
Model	Spec.	Model	Spec.	Model	Spec.
M-7-2702	ZFa1F×S20-2	M-7-2802	ZFa1F×H16-2	M-7-2902	ZFa1F×H20-2
M-7-2703	ZFa1F×S20-3	M-7-2803	ZFa1F×H16-3	M-7-2903	ZFa1F×H20-3
M-7-2704	ZFa1F×S20-4	M-7-2804	ZFa1F×H16-4	M-7-2904	ZFa1F×H20-4
M-7-2705	ZFa1F×S20-5	M-7-2805	ZFa1F×H16-5	M-7-2905	ZFa1F×H20-5
M-7-2706	ZFa1F×S20-6	M-7-2806	ZFa1F×H16-6	M-7-2906	ZFa1F×H20-6
M-7-2707	ZFa1F×S20-7	M-7-2807	ZFa1F×H16-7	M-7-2907	ZFa1F×H20-7
M-7-2708	ZFa1F×S20-8	M-7-2808	ZFa1F×H16-8	M-7-2908	ZFa1F×H20-8
M-7-2709	ZFa1F×S20-9	M-7-2809	ZFa1F×H16-9	M-7-2909	ZFa1F×H20-9
M-7-2710	ZFa1F×S20-10	M-7-2810	ZFa1F×H16-10	M-7-2910	ZFa1F×H20-10
M-7-2711	ZFa1F×S20-11	M-7-2811	ZFa1F×H16-11	M-7-2911	ZFa1F×H20-11
M-7-2712	ZFa1F×S20-12	M-7-2812	ZFa1F×H16-12	M-7-2912	ZFa1F×H20-12

Product	Code	Diameter
 M91	Spec.	
	ZFa1F×Q20-2	
	ZFa1F×Q20-3	
	ZFa1F×Q20-4	
	ZFa1F×Q20-5	
	ZFa1F×Q20-6	
	ZFa1F×Q20-7	
	ZFa1F×Q20-8	
	ZFa1F×Q20-9	
	ZFa1F×Q20-10	
	ZFa1F×Q20-11	
	ZFa1F×Q20-12	
 M92	Spec.	
	ZFa1F×Q20-2	
	ZFa1F×Q20-3	
	ZFa1F×Q20-4	
	ZFa1F×Q20-5	
	ZFa1F×Q20-6	
	ZFa1F×Q20-7	
	ZFa1F×Q20-8	
	ZFa1F×Q20-9	
	ZFa1F×Q20-10	
	ZFa1F×Q20-11	
	ZFa1F×Q20-12	
 M96	Spec.	Spec.
	ZFa1F×QH16-2	ZFa1F×QH20-2
	ZFa1F×QH16-3	ZFa1F×QH20-3
	ZFa1F×QH16-4	ZFa1F×QH20-4
	ZFa1F×QH16-5	ZFa1F×QH20-5
	ZFa1F×QH16-6	ZFa1F×QH20-6
 M95	Spec.	Spec.
	ZFa1F×Q20-2	ZFa1F×H20-2
	ZFa1F×Q20-3	ZFa1F×H20-3
	ZFa1F×Q20-4	ZFa1F×H20-4
	ZFa1F×Q20-5	ZFa1F×H20-5
	ZFa1F×Q20-6	ZFa1F×H20-6
	ZFa1F×Q20-7	ZFa1F×H20-7
	ZFa1F×Q20-8	ZFa1F×H20-8
	ZFa1F×Q20-9	ZFa1F×H20-9
	ZFa1F×Q20-10	ZFa1F×H20-10
	ZFa1F×Q20-11	ZFa1F×H20-11
	ZFa1F×Q20-12	ZFa1F×H20-12

TOOLS



TOOLS

Product	Model No.	Spec.
 Joining Tool	31101	
	31102	
 Expander	31201	
	31202	

Product	Model No.	Spec.
 Handy Clamp	30101	16
	30102	18
	30103	20
	30104	16-32

 Hand Clamp	30301	MS-1620A

 Hand Clamp	30302	MS-1620B

 Hand Clamp	30303	MS-1632A

Product	Model No.	Spec.
 Hand Clamp	30304	MS-1632AF

 Hand Clamp	30305	MS-1632B

 Hand Clamp	30306	MS-1632BF

Product	Model No.	Spec.
 Manual Hydraulic Clamp	30201	16-32 (Ⅱ型)
 Manual Hydraulic Clamp	30202	16-63 (Ⅰ型)
 Fusion Machine	31101	20-63
	31102	75-110
 Fusion Machine	31201	20-63
 Inner Spring	30701	16
	30702	18
	30703	20
	30704	25
	30705	32

Product	Model No.	Spec.
 Outer Spring	30801	16
	30802	18
	30803	20
	30804	25
	30805	32
 Pipe Cutter	30301	16-63
 Pipe Shear	30901	16-32
 Pipe Shear	31001	16-32
 Shears	31301	
	31302	

Product	Model No.	Spec.
 Reamer	30401	16
	30402	18
	30403	20
	30404	25
	30405	32
 Reamer	30501	16
	30502	18
	30503	20
	30504	25
	30505	32
	30506	40
	30507	50
	30508	63
 Plastic Reamer	31401	16-20
	31402	20-32
 Rounding Tool	30601	16-32

STAINLESS STEEL PIPE & FITTING

(BS EN 10312:2002)



Stainless Steel Material List										
CHINA (GB)	JAPAN (JIS)	GERMANY (DIN)	AMERICA (ASTM)	CHEMICAL COMPOSITION %						
				C	Si	Mn	P (max)	S (max)	Ni	Cr
06Cr19Ni10	SUS 304	X5CrNi18-10	ASTM 304	≤0.08	≤0.75	≤2.00	0.04	0.03	8.00~11.00	18.00~20.00
022Cr19Ni10	SUS 304L	X2CrNi18-10	ASTM 304L	≤0.035	≤0.75	≤2.00	0.04	0.03	8.00~13.00	18.00~20.00
06Cr17Ni12Mo2	SUS 316	X5CrNiMo17-12-2	ASTM 316	≤0.08	≤0.75	≤2.00	0.04	0.03	11.00~14.00	16.00~18.00
022Cr17Ni12Mo2	SUS 316L	X2CrNiMo17-12-2	ASTM 316L	≤0.035	≤0.75	≤2.00	0.04	0.03	10.00~15.00	16.00~18.00

Carbon Steel Material List									
CHINA (GB)	JAPAN (JIS)	GERMANY (DIN)	AMERICA (ASTM)	CHEMICAL COMPOSITION %					
				Type of Decaridation	C	Si	Mn	P (max)	S (max)
Q195	S\$330	\$185	1010	F,Z	0.12	0.30	0.50	0.035	0.040
Q215A	S\$330	US134-2	1017	F,Z	0.15	0.35	1.20	0.045	0.050
Q235A	S\$400	S235JR	1020	F,Z	0.22	0.35	1.40	0.045	0.050

The Specification of Pipe					
BS EN 10312:2002					
Nominal Size (mm)	OD	Tolerance on D	Wall	Tolerance on D	
10	12	±0.10	1.0	±0.10	
12	15	±0.10	1.0	±0.10	
15	18	±0.10	1.0	±0.10	
20	22	±0.11	1.2	±0.10	
25	28	±0.14	1.2	±0.10	
32	35	±0.18	1.5	±0.10	
40	42	±0.21	1.5	±0.10	
50	54	±0.32	1.5	±0.10	
65	76.1	±0.38	2.0	±0.15	
80	88.9	±0.44	2.0	±0.15	
100	108.0	±0.54	2.0	±0.15	

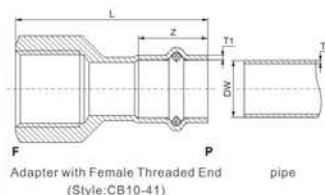
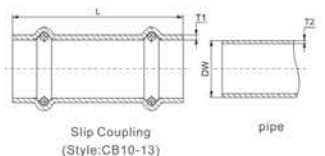
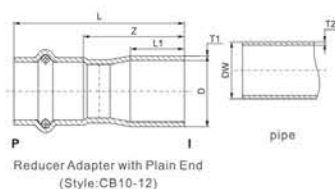
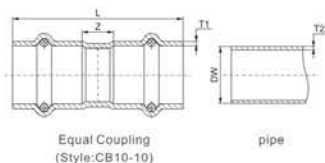


STAINLESS STEEL FITTING [V-TYPE]



(BS EN 10312:2002)

STAINLESS STEEL FITTING



Note: Thread can be F(BSP) or F(NPT) (F:female)

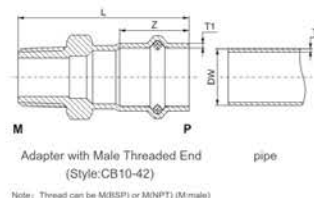
Equal Coupling(Style:CB10-10)				
Nominal Size (mm)	T1 (mm)	DW (mm)	T2 (mm)	
10	1.2	12	1.0	
12	1.2	15	1.0	
15	1.2	18	1.0	
20	1.5	22	1.2	
25	1.5	28	1.2	
32	1.5	35	1.5	
40	2.0	42	1.5	
50	2.0	54	1.5	
65	2.5	76.1	2.0	
80	2.5	88.9	2.0	
100	2.5	108	2.0	

Reducer Adapter with Plain End(Style:CB10-12)				
Nominal Size (mm)	D (mm)	T1 (mm)	T2 (mm)	
12×10	15	1.2	1.0	
15×12	18	1.2	1.0	
20×15	22	1.5	1.0	
25×15	28	1.5	1.0	
25×20	28	1.5	1.2	
32×20	35	1.5	1.2	
32×25	35	1.5	1.2	
40×20	42	2.0	1.2	
40×25	42	2.0	1.2	
40×32	42	2.0	1.5	
50×25	54	2.0	1.5	
50×32	54	2.0	1.5	
50×40	54	2.0	1.5	

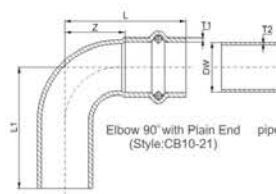
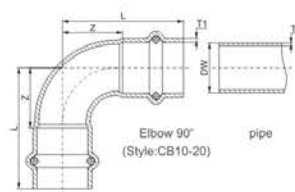
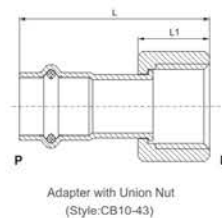
Slip Coupling(Style:CB10-13)				
Nominal Size (mm)	T1 (mm)	DW (mm)	T2 (mm)	
10	1.2	12	1.0	
12	1.2	15	1.0	
15	1.2	18	1.0	
20	1.5	22	1.2	
25	1.5	28	1.2	
32	1.5	35	1.5	
40	2.0	42	1.5	
50	2.0	54	1.5	

Adapter with Female Threaded End(Style:CB10-41)				
Nominal Size (mm) P×F	T1 (mm)	DW (mm)	T2 (mm)	
10×1/2	1.2	12	1.0	
12×1/2	1.2	15	1.0	
15×1/2	1.2	18	1.0	
15×3/4	1.2	18	1.0	
20×1/2	1.5	22	1.2	
20×3/4	1.5	22	1.2	
25×1	1.5	28	1.5	
32×1 1/4	1.5	35	1.5	
40×1 1/2	2.0	42	1.5	
50×2	2.0	54	1.5	

STAINLESS STEEL FITTING



Note: Thread can be M(BSP) or M(NPT) (M:male)

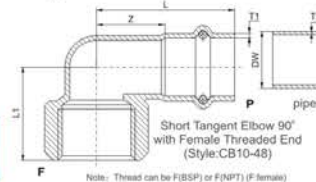
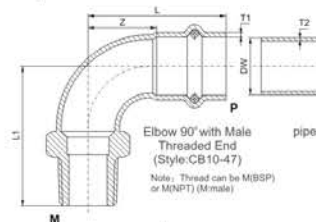
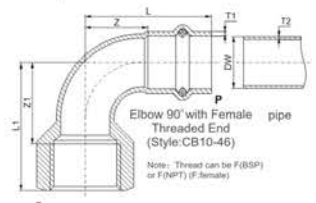
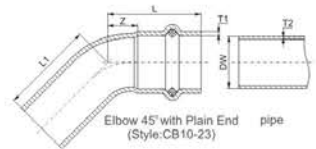
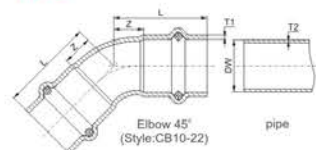


Adapter with Male Threaded End(Style:CB10-42)				
Nominal Size (mm) P×M	T1 (mm)	DW (mm)	T2 (mm)	
10×1/2	1.2	12	1.0	
12×1/2	1.2	15	1.0	
15×1/2	1.2	18	1.0	
15×3/4	1.2	18	1.0	
20×1/2	1.5	22	1.2	
20×3/4	1.5	22	1.2	
25×1	1.5	28	1.5	
32×1 1/4	1.5	35	1.5	
40×1 1/2	2.0	42	1.5	
50×2	2.0	54	1.5	

Adapter with Union Nut(Style:CB10-43)				
Nominal Size (mm) P×N	T1 (mm)			
10×1/2	1.2			
12×1/2	1.2			
15×1/2	1.2			
15×3/4	1.2			
20×1/2	1.5			
20×3/4	1.5			
20×1	1.5			
25×1	1.5			
32×1 1/4	1.5			
40×1 1/2	2.0			
50×2	2.0			

Elbow 90°(Style:CB10-20)				
Nominal Size (mm)	T1 (mm)	DW (mm)	T2 (mm)	
10	1.2	12	1.0	
12	1.2	15	1.0	
15	1.2	18	1.0	
20	1.5	22	1.2	
25	1.5	28	1.2	
32	1.5	35	1.5	
40	2.0	42	1.5	
50	2.0	54	1.5	
65	2.5	76.1	2.0	
80	2.5	88.9	2.0	
100	2.5	108	2.0	

Elbow 90° with Plain End(Style:CB10-21)				
Nominal Size (mm)	T1 (mm)	DW (mm)	T2 (mm)	
10	1.2	12	1.0	
12	1.2	15	1.0	
15	1.2	18	1.0	
20	1.5	22	1.2	
25	1.5	28	1.2	
32	1.5	35	1.5	
40	2.0	42	1.5	
50	2.0	54	1.5	



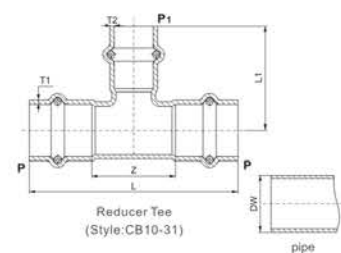
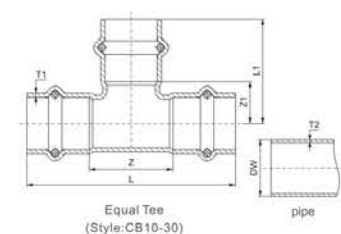
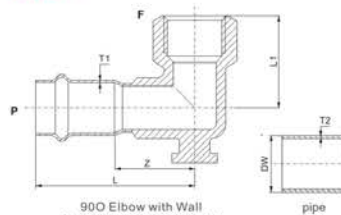
Elbow 45° (Style: CB10-22)				
Nominal Size (mm)	T1 (mm)	DW (mm)	T2 (mm)	
10	1.2	12	1.0	
12	1.2	15	1.0	
15	1.2	18	1.0	
20	1.5	22	1.2	
25	1.5	28	1.2	
32	1.5	35	1.5	
40	2.0	42	1.5	
50	2.0	54	1.5	
65	2.5	76.1	2.0	
80	2.5	88.9	2.0	
100	2.5	108	2.0	

Elbow 45° with Plain End (Style: CB10-23)				
Nominal Size (mm)	T1 (mm)	DW (mm)	T2 (mm)	
10	1.2	12	1.0	
12	1.2	15	1.0	
15	1.2	18	1.0	
20	1.5	22	1.2	
25	1.5	28	1.2	
32	1.5	35	1.5	
40	2.0	42	1.5	
50	2.0	54	1.5	

Elbow 90° with Female Threaded End (Style: CB10-46)				
Nominal Size (mm)	T1 (mm)	DW (mm)	T2 (mm)	
10 × 1/2	1.2	12	1.0	
12 × 1/2	1.2	15	1.0	
15 × 1/2	1.2	18	1.0	
15 × 3/4	1.2	18	1.0	
20 × 3/4	1.5	22	1.2	
25 × 1	1.5	28	1.2	
32 × 1 1/4	1.5	35	1.5	
40 × 1 1/2	2.0	42	1.5	
50 × 2	2.0	54	1.5	

Elbow 90° with Male Threaded End (Style: CB10-47)				
Nominal Size (mm)	T1 (mm)	DW (mm)	T2 (mm)	
10 × 1/2	1.2	12	1.0	
12 × 1/2	1.2	15	1.0	
15 × 1/2	1.2	18	1.0	
20 × 3/4	1.5	22	1.2	
25 × 1	1.5	28	1.2	
32 × 1 1/4	1.5	35	1.5	
40 × 1 1/2	2.0	42	1.5	
50 × 2	2.0	54	1.5	

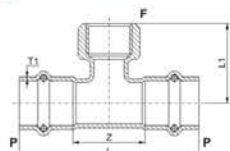
Short Tangent Elbow 90° with Male Threaded End (Style: CB10-48)				
Nominal Size (mm)	T1 (mm)	DW (mm)	T2 (mm)	
10 × 1/2	1.2	12		
12 × 1/2	1.2	15		
15 × 1/2	1.2	18		
20 × 1/2	1.5	22		
20 × 3/4	1.5	22		



90° Elbow with Wall Plate/Seat (Style: CB10-49)			
Nominal Size (mm)	T1 (mm)	DW (mm)	
10 × 1/2	1.2	12	
12 × 1/2	1.2	15	
15 × 1/2	1.2	18	
20 × 1/2	1.5	22	
25 × 3/4	1.5	28	

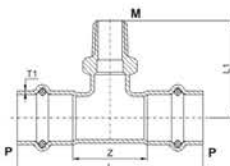
Equal Tee (Style: CB10-30)			
Nominal Size (mm)	T1 (mm)	DW (mm)	
10	1.2	12	
12	1.2	15	
15	1.2	18	
20	1.5	22	
25	1.5	28	
32	1.5	35	
40	2.0	42	
50	2.0	54	
65	2.5	76.1	
80	2.5	88.9	
100	2.5	108	

Reducer Tee (Style: CB10-31)			
Nominal Size (mm)	T1 (mm)	T2 (mm)	
12 × 10 × 12	1.2	1.2	
15 × 12 × 15	1.2	1.2	
20 × 12 × 20	1.5	1.2	
20 × 15 × 20	1.5	1.2	
25 × 12 × 25	1.5	1.2	
25 × 15 × 25	1.5	1.2	
25 × 20 × 25	1.5	1.5	
32 × 20 × 32	1.5	1.5	
32 × 25 × 32	2.0	1.5	
40 × 20 × 40	2.0	1.5	
40 × 25 × 40	2.0	1.5	
40 × 32 × 40	2.0	1.5	
50 × 20 × 50	2.0	1.5	
50 × 25 × 50	2.0	1.5	
50 × 32 × 50	2.0	1.5	
50 × 40 × 50	2.0	2.0	
65 × 20 × 65	2.5	1.5	
65 × 25 × 65	2.5	1.5	
65 × 32 × 65	2.5	1.5	
65 × 40 × 65	2.5	2.0	
65 × 50 × 65	2.5	2.0	
80 × 20 × 80	2.5	1.5	
80 × 25 × 80	2.5	1.5	
80 × 32 × 80	2.5	1.5	
80 × 40 × 80	2.5	2.0	
80 × 50 × 80	2.5	2.0	
80 × 65 × 80	2.5	2.5	
100 × 20 × 100	2.5	1.5	
100 × 25 × 100	2.5	1.5	
100 × 32 × 100	2.5	1.5	
100 × 40 × 100	2.5	2.0	
100 × 50 × 100	2.5	2.0	
100 × 65 × 100	2.5	2.5	
100 × 80 × 100	2.5	2.5	



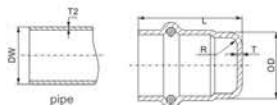
Tee with Female Threaded Branch
(Style: CB10-51)

Note: Thread can be F(BSP) or F(NPT) (F: Female)



Tee with Male Threaded Branch
(Style: CB10-52)

Note: Thread can be M(BSP) or M(NPT) (M: Male)



Cap (Style: CB10-59)

STAINLESS STEEL FITTING

Tee with Female Threaded Branch (Style: CB10-51)			
Nominal Size (mm) P × F × P	T1 (mm)	DW (mm)	
10 × 1/2 × 10	1.2	12	
12 × 1/2 × 12	1.2	15	
15 × 1/2 × 15	1.2	18	
20 × 1/2 × 20	1.5	22	
20 × 3/4 × 20	1.5	22	
25 × 1/2 × 25	1.5	28	
25 × 3/4 × 25	1.5	28	
25 × 1 × 25	1.5	28	
32 × 1/2 × 32	1.5	35	
32 × 1 1/4 × 32	1.5	35	
40 × 1 1/4 × 40	2.0	42	
50 × 1 1/2 × 50	2.0	54	
50 × 2 × 50	2.0	54	

Tee with Male Threaded Branch (Style: CB10-52)			
Nominal Size (mm) P × M × P	T1 (mm)	DW (mm)	
10 × 1/2 × 10	1.2	12	
12 × 1/2 × 12	1.2	15	
15 × 1/2 × 15	1.2	18	
20 × 1/2 × 20	1.5	22	
20 × 3/4 × 20	1.5	22	
25 × 1/2 × 25	1.5	28	
25 × 3/4 × 25	1.5	28	
25 × 1 × 25	1.5	28	
32 × 1/2 × 32	1.5	35	
32 × 1 1/4 × 32	1.5	35	
40 × 1 1/4 × 40	2.0	42	
50 × 1 1/2 × 50	2.0	54	
50 × 2 × 50	2.0	54	

Cap (Style: CB10-59)			
Nominal Size (mm)	R (mm)	T (mm)	DW (mm)
10	3	1.2	12
12	3	1.2	15
15	3	1.2	18
20	5	1.5	22
25	5	1.5	28
32	6	1.5	35
40	6	2.0	42
50	6	2.0	54

THE TOOL AND THE ACCESSORIES FOR THE PRESS FITTING



Battery Press Tool Pressing Jaw

Pipe Fitting Size	DN15-50
Jaw Specifications	DN15, DN20, DN25 DN32, DN40, DN50



Electric Hydraulic Press Tools



Big Clamp Seat Pressing Chain

Pipe Fitting Size	DN65-100
Big Clamp Seat	DN65-100
Chain Specifications	DN65, DN80, DN100
Oil Tubing Size	4M/6M



Pipe Cutting Knife Blade

Cutting Size	35S 6-35mm 65S 6-65mm
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Battery Press Tool



Pressing Chain



Pressing Chain

Pipe Fitting Size	DN15-50
Jaw Specifications	DN15, DN20, DN25 DN32, DN40, DN50



Manual Hydraulic Tool



Pressing Jaw Small Clamp Seat Oil Tubing

Pipe Fitting Size	DN15-25 DN32-50 DN15-50
Jaw Specifications	DN15, DN20, DN25 DN32, DN40, DN50
Small Clamp Seat	DN15-25
Middle Clamp Seat	DN32-50
Oil Tubing Size	4M/6M



1. Cut the tube



4. Clamp downright the fitting
with the tube by press tool



5. Check the finishing by
hexagon



2. Remove the burr for smoothing
the tube port edge



3. Mark the tube for checking the
fitting insertion depth size

