



We Maximize Your **Value**

Leader of Piping Materials companies

– Namsung Precision Co., Ltd.



Namsung Precision Co.,Ltd.

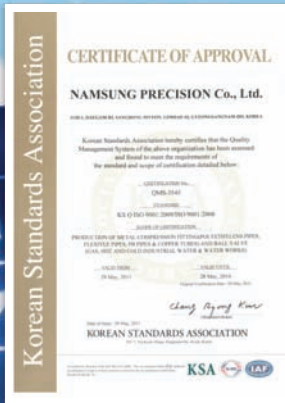
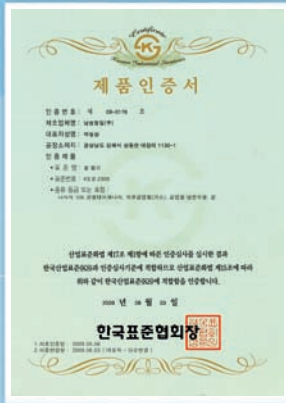


Namsung Precision Co.,Ltd.

Introduction

Namsung Precision Co.,Ltd established in 1970, is specialized to be one of the leading manufacturers of valves and fittings with annual sales exceeding USD \$40millions including export sales. World Joint Co.,Ltd, one of ours listing shares on KOSDAQ(international stock market), aims to make safer products and expand the brand name and our products into the worldwide market. To fulfill this goal, it has also adopted the JUST-IN-TIME production system to improve its efficiency. To become first class, Namsung Precision Co.,Ltd keeps developing a customer's requirements with each other. New product, checking the product quality and researching

Certificate of Approval



● A Corporate History

- 1970.01. Established Namsung Company
- 1985.04. Incorporated into Namsung Precision Co.,Ltd
- 1986.05. Acquired K-Mark on X-L pipe joint and flare pipe joint (KS B1545, KS B1546)
- 1989.02. Set up an affiliated R&D Center
- 1990.02. Designated as the Best Small Business
- 1991.12. Designated as Technology Advancement Company
- 1992.10. Accredited as drinking water pipe material maker
- 1994.01. Awarded 1Million Dollars Export Trophy
- 1994.12. Adopted as the best material by Korea National Housing Corporation
- 1996.11. Acquired KT (KoreaGoodTechnology) Mark
- 1998.01. Acquired ISO9002 Certification
- 1998.05. Acquired Venture Business Certification
- 2002.06. Acquired K-Mark on Ball Valve (KS B2308)
- 2003.02. Renewed KS A9001:2001 Certification
- 2003.04. Enrolled water meter work-related business
- 2004.04. Patented Utility Model on Ball Valve Grip
- 2003.05. Acquired K-Mark on Copper Alloy Soldering Pipe Joint (KS B6029)
- 2003.12. Acquired RussiaGOST-RCertification
- 2005.12. Acquired K-Mark on Gas Valve
- 2006.02. Acquired CSA Certification on Ball Valve
- 2011.12. Acquired hygiene safety for X-L pipe fittings
- 2011.12. Acquired hygiene safety for Brass fittings.

● Company's significant

- Developed METAPOL, X-L Joint firstly in Korea
- Acquired KS Mark on METAPOL, X-L Joint firstly in Korea
- Started automation firstly in the same line of business
- Entered Chinese market firstly in the same line of business
- Entered Vietnamese market firstly in the same line of business
- Achieved the maximum production and sales in the same line of business
- Managed by a single representative director for 40 years

● Production Items

- Polyethylene pipe joint (X-L)
- 2Ball valve (Safety ball valve), Header valve(PP-C), Butterfly valve, Butterfly socket
- Flexible Tube Joint
- Composite pipe(METAPOL, MEPOL, UNI) joint
- Stainless heating water Distributor
- PB pipe joint
- Copper alloy soldering pipe joint
- Stainless ball valve
- Various types of hot forged products

Certification & KS Mark

KS B 1546 Polyethylene pipe joint (X-L) KS Mark No. 4535

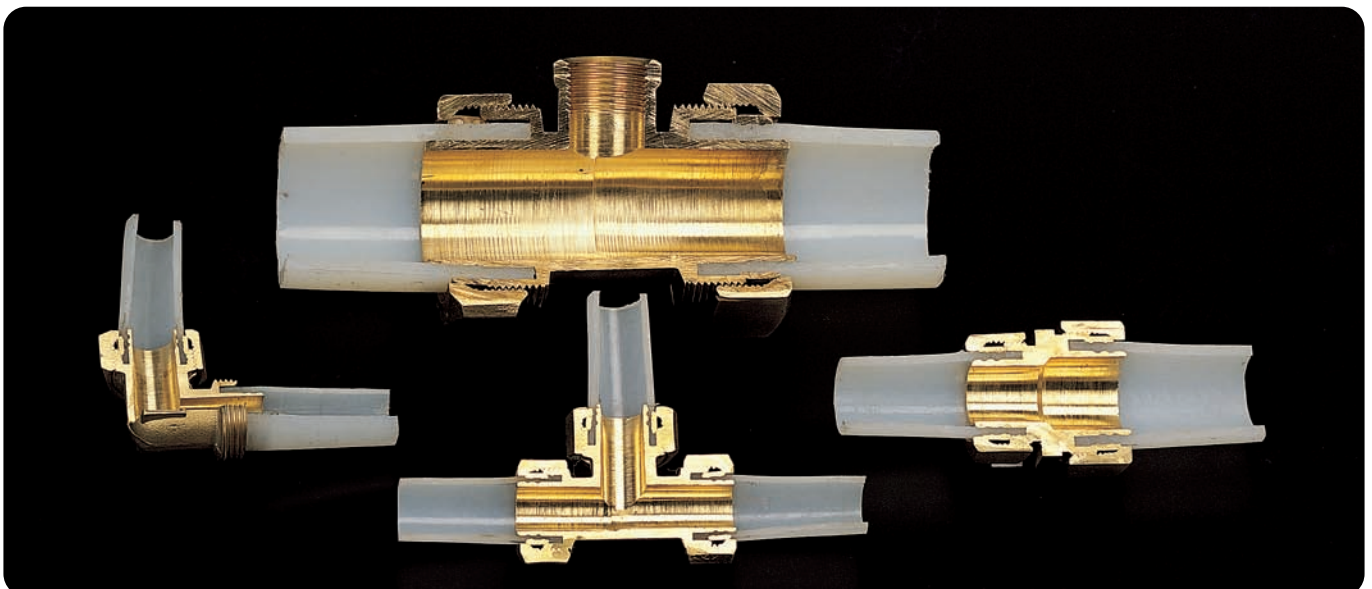
Acquired hygiene Safety KC Mark

KS Q ISO 9001:2009/ISO 9001:2008

Polyethylene Pipe Fittings (X-L)

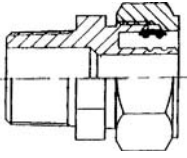


Installation View



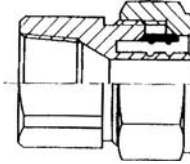
Sectional View of the Polyethylene Pipe Fittings (X-L)

Valve Socket X-L



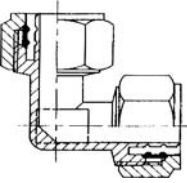
X-L Pipe(Inside Diameter)	PT Screw
V/S 12	1/2"
V/S 15	1/2", 3/4"
V/S 20	3/4"
V/S 25	1"
V/S 30	1 1/4"
V/S 40	1 1/2"

Valve Socket(F)



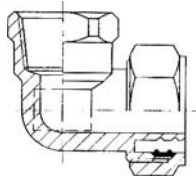
X-L Pipe(Inside Diameter)	PT Screw
V/S(F) 12	1/2"
V/S(F) 15	1/2", 3/4"
V/S(F) 20	3/4"
V/S(F) 25	1"
V/S(F) 30	1 1/4"
V/S(F) 40	1 1/2"

Valve Elbow



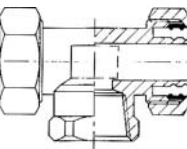
X-L Pipe(Inside Diameter)
V/E 12
V/E 15
V/E 20
V/E 25
V/E 30
V/E 40

Elbow Socket



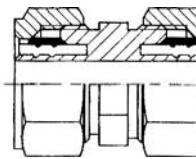
X-L Pipe(Inside Diameter)	PT Screw
E/S 12	1/2"
E/S 15	1/2"
E/S 20	1/2", 3/4"
E/S 25	1/2", 3/4", 1"
E/S 30	1 1/4"
E/S 40	1 1/2"

Tee Socket



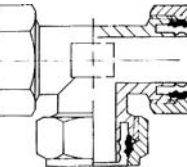
X-L Pipe(Inside Diameter)	PT Screw
T/S 12	1/2"
T/S 15	1/2"
T/S 20	1/2", 3/4"
T/S 25	1/2", 3/4", 1"
T/S 30	1/2", 3/4", 1", 1 1/4"
T/S 40	1/2", 3/4", 1", 1 1/4", 1 1/2"

Coupling



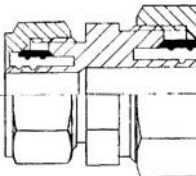
X-L Pipe(Inside Diameter)
C/P 12
C/P 15
C/P 20
C/P 25
C/P 30
C/P 40

3-Tee



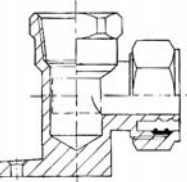
X-L Pipe(Inside Diameter)
3T 12
3T 15
3T 20*15, 3T 20
3T 25*15, 3T 25*20, 3T 25
3T 30
3T 40

Reducing Coupling



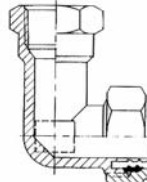
X-L Pipe(Inside Diameter)
C/P 15*12
C/P 20*15
C/P 25*15, C/P 25*20
C/P 30*15, C/P 30*20, C/P 30*25
C/P 40*15, C/P 40*20, C/P 40*25, C/P 40*30

Elbow Socket



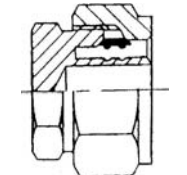
X-L Pipe(Inside Diameter)	PT Screw
E/S(W) 15	1/2"

Long Socket



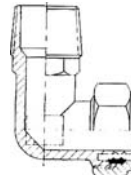
X-L Pipe(Inside Diameter)	PT Screw
L/S 15	1/2"
L/S 20	3/4"

Cap



X-L Pipe(Inside Diameter)
CAP 15
CAP 20

Long Socket(M)



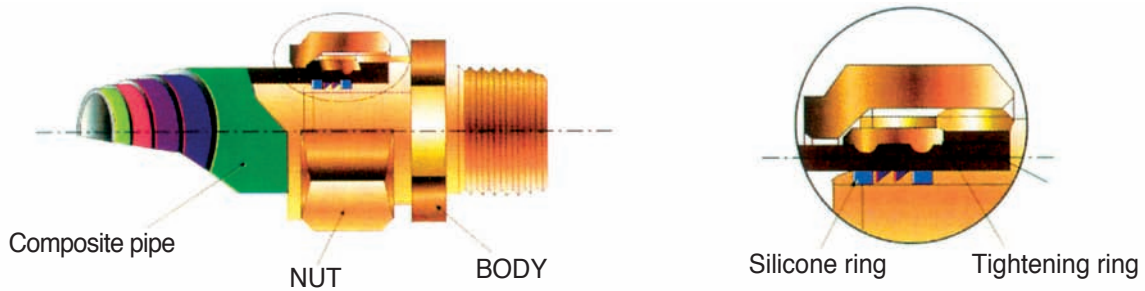
X-L Pipe(Inside Diameter)	PT Screw
L/S(M) 15	1/2"
L/S(M) 20	3/4"
L/S(M) 25	1"



Composite Pressure Pipe Fittings

The composite pressure pipe fittings have an excellent hygienic quality and rigidity, which are suitable for water supply pipes, heating/cooling plumbing, hot water boilers and chemical pipelines.

● Structure of a Composite Pressure Pipe Fitting (KS B 1546)



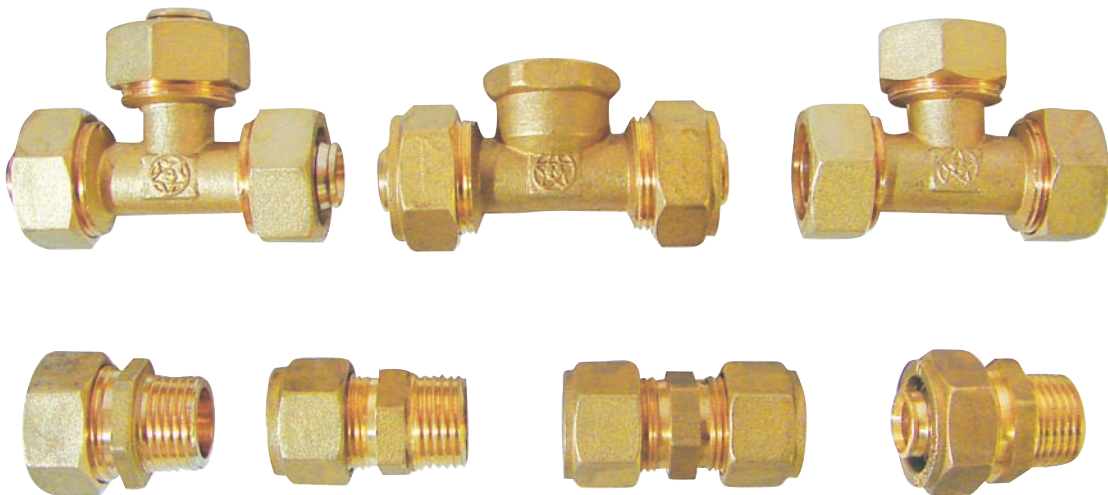
※ The use of silicone material prevents any possible risk of water/hot water leakage 100%

● Layers of the Composite Pipe



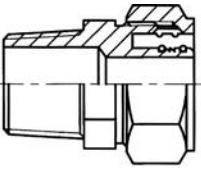
- ① Polyethylene layer
- ② Achesive layer
- ③ Aluminum layer
- ④ Achesive layer
- ⑤ (Cross-linked) Polyethylene layer

● Type



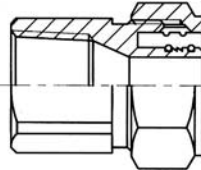
Sectional View of the Composite Pipe Fittings (KS B 1546)

Male Socket



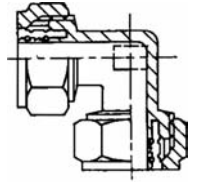
External Diameter (Composite Pipe) Metapole Pipe	PT Screw
SM 16	1/2"
SM 20	1/2", 3/4"
SM 26	1/2", 3/4", 1"
SM 32	1"
SM 40	1 1/4"

Female Socket



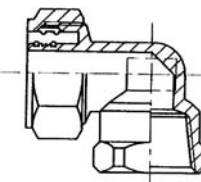
External Diameter (Composite Pipe) Metapole Pipe	PT Screw
SF 16	1/2"
SF 20	1/2", 3/4"
SF 26	1/2", 3/4", 1"
SF 32	1"
SF 40	1 1/4"

Elbow



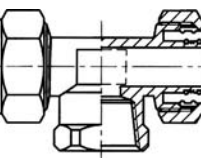
External Diameter (Composite Pipe) Metapole Pipe
LL 16
LL 20
LL 26
LL 32
LL 40

Female Elbow



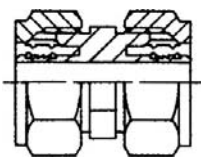
External Diameter (Composite Pipe) Metapole Pipe	PT Screw
EF 16	1/2"
EF 20	1/2", 1/2"(W)
EF 26	1/2", 3/4", 1"
EF 32	1"
EF 40	1 1/4"

Female Tee



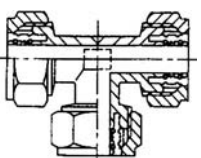
External Diameter (Composite Pipe) Metapole Pipe	PT Screw
TF 16	1/2"
TF 20	1/2", 3/4"
TF 26	1/2", 3/4", 1"
TF 32	1"
TF 40	1 1/4"

Union



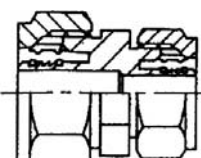
External Diameter (Composite Pipe) Metapole Pipe
SU 16
SU 20
SU 26
SU 32
SU 40

Tee



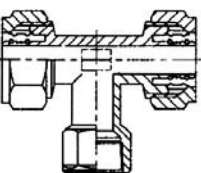
External Diameter (Composite Pipe) Metapole Pipe
TT 16
TT 20
TT 26
TT 32
TT 40
TR 1620, TR 2016
TR 2616, TR 2620
TR 3220, TR 3226
TR 4026, TR 4032
TN 2620

Reducer



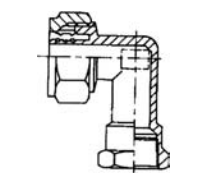
External Diameter (Composite Pipe) Metapole Pipe
SR 2016
SR 2620
SR 3220, SR 3226
SR 4020, SR 4026, SR 4032

Long Tee



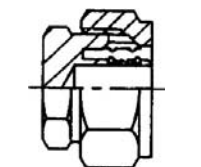
External Diameter (Composite Pipe) Metapole Pipe	PT Screw
TFL 16	1/2"
TFL 20	1/2"

Long Elbow(Female)



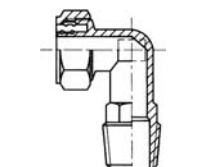
External Diameter (Composite Pipe) Metapole Pipe	PT Screw
LFL 16	1/2"
LFL 20	1/2"

Cap



External Diameter (Composite Pipe) Metapole Pipe
CAP 16
CAP 20
CAP 26

Long Elbow(Male)



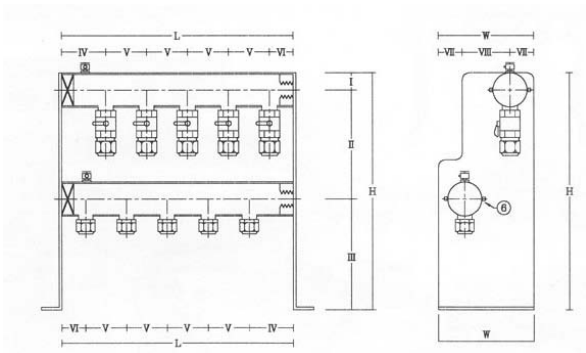
External Diameter (Composite Pipe) Metapole Pipe	PT Screw
LML 16	1/2"
LML 20	1/2"
LML 26	3/4"

Stainless Steel Heating Water Distributor

Type



Dimension



Features

1. This Product can be used semi permanently and Anti-corrosion cause it made of stainless steel.
2. Pipe connect parts are extremely strong due to all parts are welded.
3. It is lighter, cheaper than a bronze cast one.
4. Product makes a good showing.

Application Oil, Gas

Operating Pressure Under 0.7Mpa

Section	H	L	W	I	II	III	IV	V	VI	VII	VIII
2P	400	160	140	25	160	315	65	60	35	40	60
3P	400	220	140	25	160	315	65	60	35	40	60
4P	400	280	140	25	160	315	65	60	35	40	60
5P	400	340	140	25	160	315	65	60	35	40	60
6P	400	400	140	25	160	315	65	60	35	40	60
7P	400	460	140	25	160	315	65	60	35	40	60
8P	400	520	140	25	160	315	65	60	35	40	60
9P	400	580	140	25	160	315	65	60	35	40	60
10P	400	640	140	25	160	315	65	60	35	40	60

※ Pipe size : $\Phi 20$, $\Phi 25$, Valve & Fitting size 15mm.

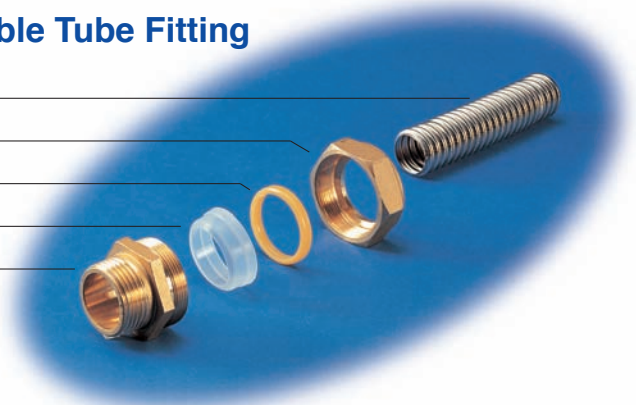
Stainless Steel Flexible Tube fittings

Type



Structure of a Stainless Steel Flexible Tube Fitting

- ① STS Flexible Tube
- ② Socket Nut
- ③ Stop Ring
- ④ Packing
- ⑤ Valve Socket



Valve Socket

Valve Socket	PT Screw
V/S 15	1/2"
V/S 20	3/4"
V/S 25	1"
V/S 30	1 1/4"

Elbow Socket

Elbow Socket	PT Screw
E/S 15	1/2", 1/2"(W)
E/S 20	3/4"
E/S 25	1"
E/S 30	1 1/4"

Valve Socket(F)

Valve Socket(F)	PT Screw
V/S(F) 15	1/2"
V/S(F) 20	3/4"
V/S(F) 25	1"
V/S(F) 30	1 1/4"

Tee Socket

Tee Socket	PT Screw
T/S 15	1/2"
T/S 20	3/4"
T/S 25	1"
T/S 30	1 1/4"

Coupling

Coupling
C/P 15
C/P 20*15, C/P 20
C/P 25*15, C/P 25*20, C/P 25

3-Tee

3-Tee
3T 15
35 20*15*20, 3T 20
3T 25*15*25, 3T 25*20*25, 3T 25

Other Fittings

Fittings for Copper Pipe



Bushing(M*F)
1/2"*1/2", 3/4"*1/2", 1"*3/4"



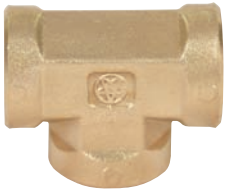
Long Bushing(M*F)
1/2"*1/2"



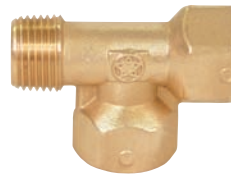
Nipple(M*M)
1/2"*1/2"
3/4"*3/4"



Female Elbow
F*F 1/2"*1/2"
M*F 1/2"*1/2"



Female Tee
F*F*F 1/2"*1/2"*1/2"



Male Tee
M*F*F 1/2"*1/2"*1/2"

Flare Fittings



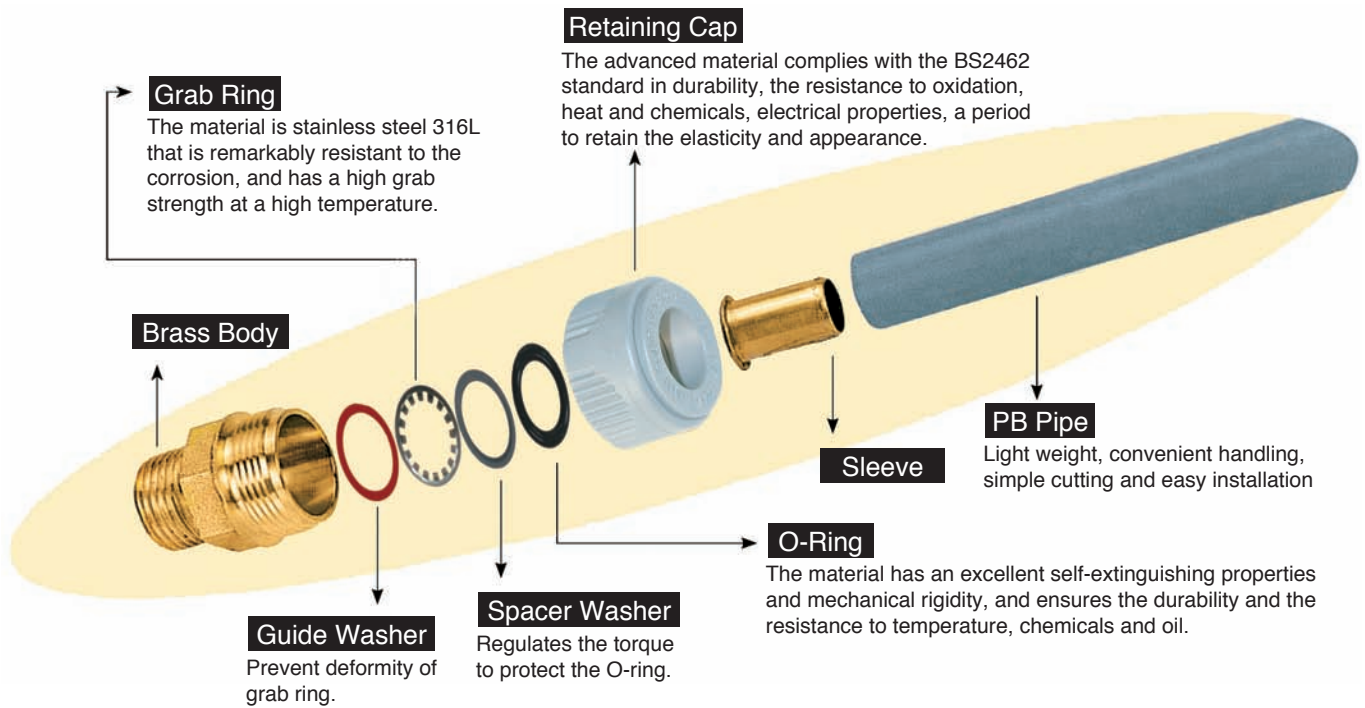
Nipple Size	Screw
1/4"	7/16-20 UNF
3/8"	5/8-18 UNF
1/2"	3/4-16 UNF
5/8"	7/8-14 UNF
3/4"	17/16-14 UNF











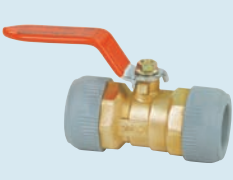

Nut Size	Screw
1/4"	7/16-20 UNF
3/8"	5/8-18 UNF
1/2"	3/4-16 UNF
5/8"	7/8-14 UNF
3/4"	17/16-14 UNF




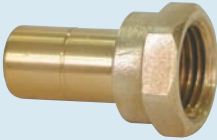









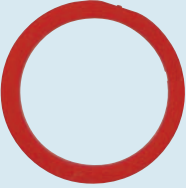



PB Parts and Fittings



PB Parts and Fittings

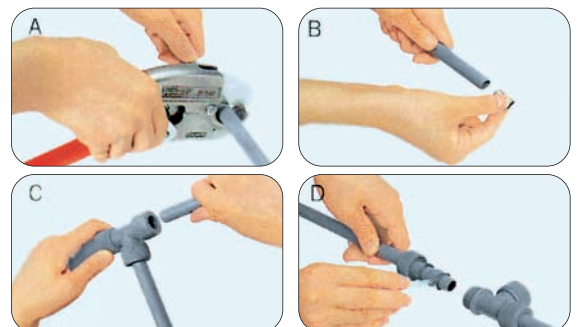
				
MVS	FVS	Elbow for Water Supply	Elbow for Water Supply(M)	Elbow for Water Supply (3P Rear)
15×1/2 20×3/4 20×1/2 22×3/4 22×1/2 25×1 25×3/4 28×1 28×3/4 35×1 1/4	15×1/2 20×3/4 20×1/2 22×3/4 22×1/2 25×1 25×1/2 28×1 28×3/4 35×1 1/4	15×1/2 20×1/2	15×1/2 20×3/4 28×1	15×1/2
				
Long Elbow for Water	Supply Tee for Water Supply	Long Tee for Water Supply	Dual Ball Valve	F Ball Valve
15×1/2 20×1/2	15×1/2 20×1/2	15×1/2 20×1/2	15mm 22mm	15×1/2

PB Parts and Fittings

				
M Ball Valve	CF Adaptor	CM Adaptor	Socket	Elbow
15×1/2	15×1/2 20×3/4 20×1/2 22×3/4	15×1/2 20×3/4 20×1/2 22×3/4	20mm 15mm 25mm 22mm 35mm 28mm	20mm 15mm 25mm 22mm 35mm 28mm
				
Equal Tee	Air Chamber Cap	BRT	Reducer (Reducing Socket)	Straight Reducer
10mm 15mm 20mm 22mm 25mm 28mm 35mm	15mm 20mm 22mm	22×10 15×20 15×20 25×20 22×22 15×22 28×22 25×28 15×28 35×22 28×35 15×35 35×35 28×35	22×15 20×15 25×20	28×22 22×15 35×22 35×15 35×28
				
Support Sleeve	Guide Washer	Grab Ring	O-Ring	Washer
20mm 15mm 25mm 22mm 35mm 28mm	20mm 15mm 25mm 22mm 35mm 28mm 15mm	22mm 15mm 25mm 22mm 28mm	20mm 15mm 25mm 22mm 35mm 28mm 15mm	20mm 15mm 25mm 22mm 35mm 28mm 15mm

Installation of the PB Pipe

- Cut a Pipe.
Cut a pipe at a right angle with a pipe cutter.
- Insert a support sleeve into the pipe.
Remove the debris from the cutting plane to insert a support sleeve into the pipe.
- Insert the pipe into a fitting.
Use the lubricant oil to horizontally insert the pipe into a fitting.
- Reinstallation.
Unscrew the retaining cap to completely disconnect the pipe and fittings, and reassemble a grab ring, washer and O-ring in order. The used grab ring must be replaced with a new one.



Application

Reduce and maintain pressure of water



NRV-1

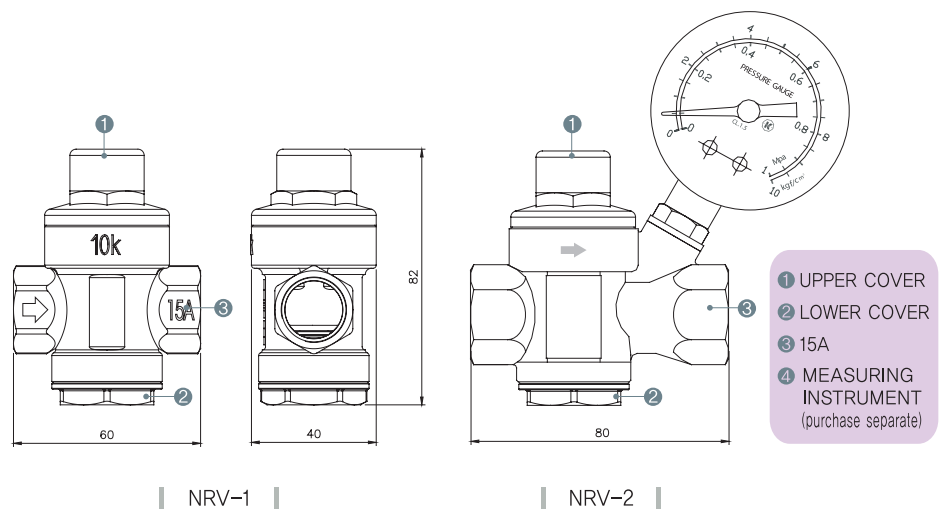


NRV-2

Reducing Valve

Features

- 1 It use for gas & oil boiler, heat exchanger, electric water-heater. Also it helps securing the satability and improve efficiency of machine.
- 2 This product can reduce pressure for individual house holders. Especially it can control water pressure from tall building's water tank.
- 3 This product gives high performance for reduce water pressure and You can adjust the pressure by your selves.
- 4 There is 12A measuring instrument at output area so it's possible to see and check the pressure.
- 5 Verticalty, horizontality installation is possible and tactial quiet due to it is specially designed.



NRV-1

NRV-2

MODEL	NRV-1	NRV-2
Size(mm)	15A, 20A Union	15A, 20A Union
Use pressure(kgf/cm ²)	Under 10	
Available range(kgf/cm ²)	0.5~8	
Use temperature(°C)	5~60°C	
Flow rate(L/min)	1kgf/cm ² , Over 15L/min	
Applied fluid	Water	
Pressure test	3 Minute at 17.5kgf/cm ² of water pressure. (KS B6153 reduce pressure valve)	

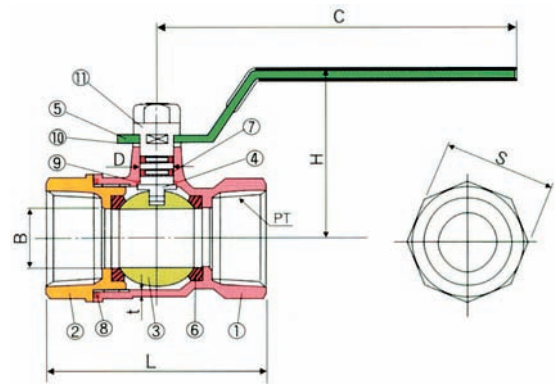
Brass Ball Valves

10kgf/cm³ Forged brass Ball Valve (KS B 2308)

 Korean Standar (KS) Approved Product

Specification

Working Pressure	Max Pressure	Size	Max Temperature	Thread spec
0.98MPa(10kgf/cm ²)	1.37MPa(14kgf/cm ²)	8A~100A	below 80°C	KS B 0222



Part Description

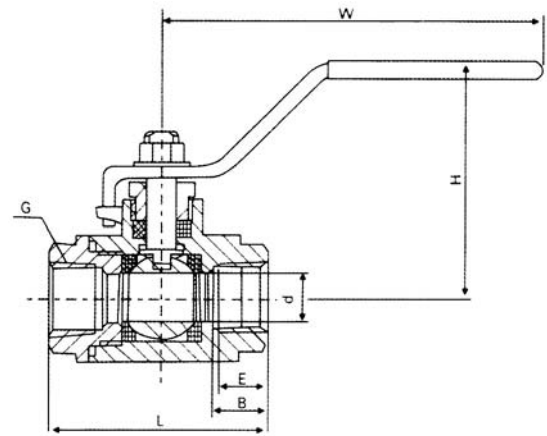
NO	Parts Name	Material Spec	NO	Parts Name	Material Spec
1	Body	C3771 BD-F / YBSC3	7	O-Ring	NBR
2	Cap	C3771 BD-F	8	Seal Ring	NBR
3	Ball	C3604 BD-F / C3771 BD-F	9	Back Packing	PTFE
4	Stem	C3604 BD	10	Handle Parking	PTFE
5	Handle	SS 330	11	Flange Nut	SWRM 8
6	Seat ring	PTFE			

Dimension

Model NO	L	H	S	t(Min.)	D(Min.)	B
8A	42.8	33.5	18	2	7	8
10A	44.5	33.5	20	2.3	7	8
15A	52.7	43.5	26	2.8	8	10
20A	54	46	31	2.3	9	15
25A	64.5	56.5	38	2.3	11	20
32A	78	61.5	47	2.8	11	25
40A	84.5	68.5	54	3.3	13	32
50A	98	74.5	67	4.3	15	40
65A	129	87	84	3.5	18	50
80A	146	100	99	4.4	18	65
100A	192	106	122	4.5	18	80



Stainless Steel Ball Valves



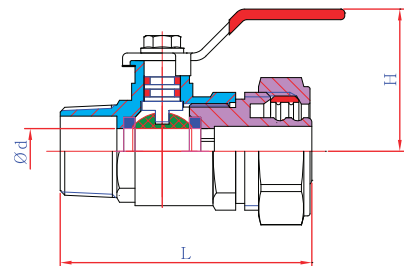
NO	Parts Name	Material Spec
1	Body	CF8
2	Cap	CF8
3	Ball	SS304
4	Seat	RPTFE
5	Stem	SS304
6	Handle	SS304
7	Packing	PTFE
8	Gasket	PTFE
9	Nut	SS304
10	Handle Cover	PLASTIC
11	Washer	SS304

DN	Size	Φd	L	H	W
8A	1/4"	8	55	42	95
10A	3/8"	10	55	42	95
15A	1/2"	15	62	51	108
20A	3/4"	20	75	58	115
25A	1"	25	85	77	135
32A	1-1/4"	32	102	83	150
40A	1-1/2"	38	108	97	175
50A	2"	50	124	106	190
65A	2-1/2"	65	163	122	220
80A	3"	80	185	133	250
100A	4"	100	225	162	320



Male Screw Lever Handle (KS Head Valves)

0.98MPa(10kgf/cm³) Forged Brass Valve

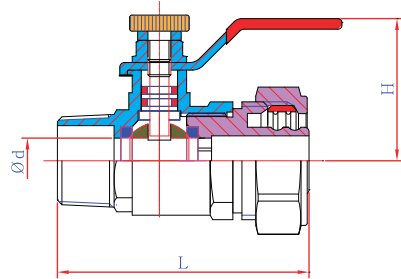


Size	Φd	L	t	H
15A	10	62.5	2.3	37.5

Connection Type :
Out-Polyethylene Pipe Fitting

Male Screw Lever Handle (KS Head Valves)

0.98MPa(10kgf/cm³) Forged Brass Valve

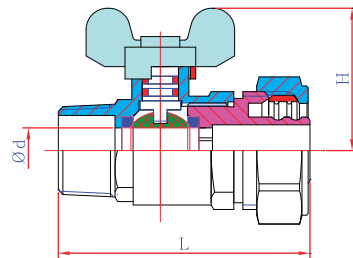


Size	Ød	L	t	H
15A	10	62.5	2.3	37.5

Connection Type : Polyethylene Pipe

Male Screw Butterfly Handle (KS Head Valves)

0.98MPa(10kgf/cm³) Forged Brass Valve



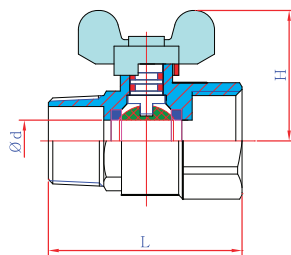
Size	Ød	L	t	H
12A	10	62.5	2.3	37.5
15A	10	62.5	2.3	37.5

Connection Type : Polyethylene Pipe

Other Valves 1

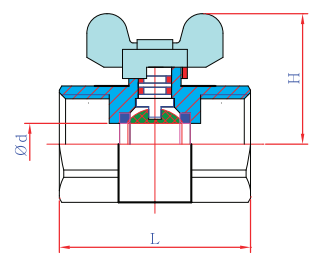
0.98MPa(10kgf/cm³) Forged Brass Valve

Nipple Valve



Size	Ød	L	t	H
15A	10	53	2	31.4

Socket Valve

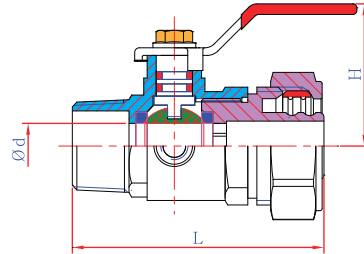


Size	Ød	L	t	H
15A	10	46	2	31.4



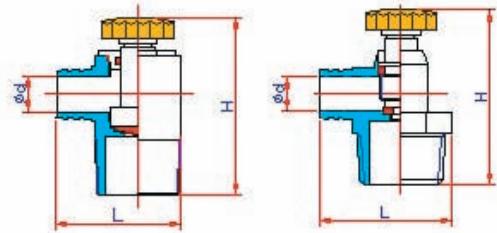
Other Valves 2

● Drain Header Valve



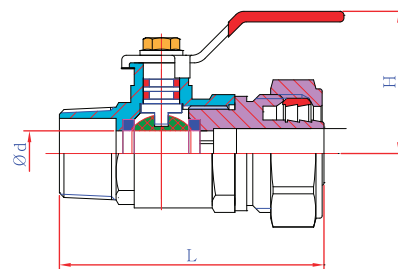
Size	ϕd	L	t	H
12A	10	58.5	2	31.4
15A	10	57	2	31.4

● Drain Air Valve



Size	ϕd	L	H
15A(S)	8	31.5	40
15A(L)	8	31.4	414

● PPC Header Valve

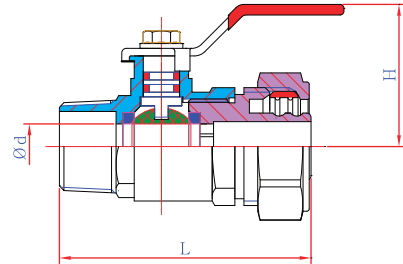


Size	ϕd	L	t	H
15A	14.5	70	2.3	37

Other Valves 3

0.98MPa(10kgf/cm³) Forged Brass Valve

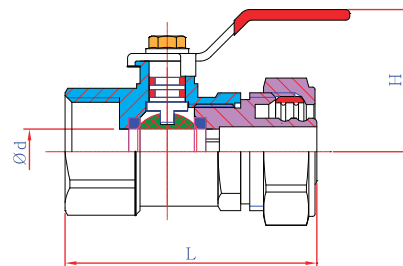
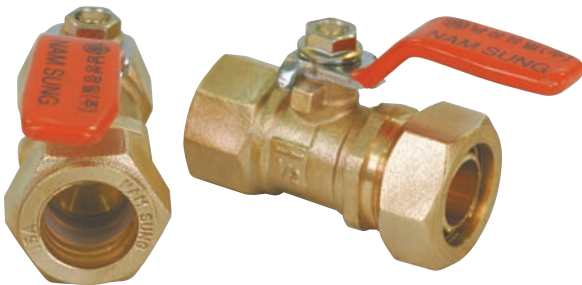
Header Valve(M)



Size	Ød	L	t	H
12A	10	58.5	2	31.4
15A	10	57	2	31.4

Connection Type : Polyethylene Pipe
Handle Type : Butterfly & Lever Handle

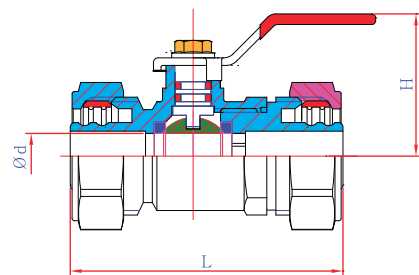
F Header Valve(X-L, Flexible Pipe)



Size	Ød	L	t	H
15A	10	56.5	2	31.4

Connection Type : Polyethylene, Flexible Pipe
Handle Type : Lever Handle

Coupling Valve



Size	Ød	L	t	H
15A(S)	10	60.15	2.2	31.4
15A(L)	10.5	72	3.2	40
20A	14.5	73	2.4	40

Connection Type : Polyethylene, Composite Pressure Pipe



Various Types of hot forged products





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※ This catalogue was published in April 2012, and the specification of the products is subject to change without prior notice for better quality.