



NINGBO  MANUFACTORY

ADD : 208 LONG ZHEN RD. LONG SHAN INDUSTRIAL
DISTRICT, CIXI, ZHE JIANG 315311 CHINA
TEL : 86-574-5586 9957
FAX : 86-574-5586 9980
Http : //www.eff-fitting.com



NINGBO  MANUFACTORY

NINGBO  MANUFACTORY



PRODUCTION PROCESS	03
ABOUT US	04
GUARANTEE	05
MATERIAL	06
FULL PORT BALL VALVES	07
PEX BALL VALVES (F1870)	14
COLD EXPANSION PEX VALVES(F1960)	18
CHAIN BALL VALVES	22
SIDE PORT BALL VALVES	23
FLANGED BALL VALVES (SWIVEL)	25
FLANGED BALL VALVES (FIXED)	26
INTEGRAL 90° BALL VALVES	28
GAS BALL VALVES	34
1/4 TURN MINI BALL VALVES	37
1/4 TURN MINI BALL VALVES-STRAIGHT	38
1/4 TURN MINI BALL VALVES-ANGLED	39
1/4 TURN MINI BALL VALVES-TEE	40
1/4 TURN BALANCING VALVES	41
1/4 TURN LOOSE KEY W/SCREWDRIVER SLOT MINI BALL VALVES	42
1/4 TURN COLD EXPANSION MINI BALL VALVES	44
COLD EXPANSION MINI BALL VALVES	45
1/4 TURN HOSE BIBBS	46
PEX FITTINGS	50

COLD EXPANSION PEX FITTING (F1960)	62
PLASTIC FITTINGS	67
ACCESSORIES	69
STUB-OUT 90° ELBOWS	71
RETAIL PACKAGING	72

PRODUCTION PROCESS



Assembling



Ultrasonic Cleaning



Machining



Heat Treating



Forging



Quality Assurance

ABOUT US

Eastern Foundry and Fittings Inc. founded in 1995, specializes in the manufacture and distribution of low lead and lead free forged brass full port ball valves, quarter turn brass mini ball valves, brass PEX ball valves, cast brass drains, F1960 and F1807 brass and F1807 polyphenylsulfone pex fittings, and caters exclusively to private brand OEM's, to retail /wholesale distributors serving the residential, commercial, institutional, industrial plumbing and HVAC market segments,

All products are fully certified and carry all the relevant NSF, CSA, UL, FM and UPC approvals. Certification services are provided exclusively through NSF, CSA, UL and FM directly. Products meet all regional and national North American code requirements.

Over the 20 plus years the company has been in business the company has forged many long-term relationships with many very well-known private brand and distribution partners and has earned a solid reputation for consistently producing high quality and competitively priced products. And for it's ability to manufacture custom made products and bring innovative new solution based valve products to market.

The company maintains an ISO 9001:2000 certified manufacturing facility in Ningbo, China and currently has two distribution hubs to service the requirements of the North American market. The company employs over 200 people worldwide.

Manufacturing follows a stringent quality control program and performs rigorous testing throughout the manufacturing process, ensuring that all of our products are within specification offering trouble free service for the life of the product.





We have signed service contracts with XL Group Insurance to fully guarantee our products reliability.



Chemical composition table (lead brass)

Brass Material	Cu	Pb	Fe	Sn	Zn	Impurity			
C36000	60-63	2.5-3.7	0.35		Rem	0.5			
C36500	58-61	0.25-0.7	0.15	0.25	Rem	0.4			
C37000	58-62	0.8-1.5	0.15		Rem	0.4			
C37100	58-62	0.6-1.2	0.15		Rem	0.4			
C37700	58-61	1.5-2.5	0.3		Rem	0.5			
C37710	56.5-60.0	1.0-3.0	0.3		Rem	0.5			

Lead free brass

Brass Material	Cu	Pb	Fe	Ni+Co	Sn	Al	Zn	Sb	Si	S	P	Impurity
C84400	78-82	6.0-8.0	0.4	1	2.3-3.5	0.005	Rem	0.25	0.005	0.08	0.02	0.07

Brass Material	Cu	Pb	Fe	Sn	Zn	Impurity			
C46400	59-62	0.2	0.1	0.5-1.0	Rem	0.4			

Brass Material	Cu	Pb	Sn	As	Zn	Impurity			
C48600	59-62	1.0-2.5	0.3-1.5	0.02-0.25	Rem	0.4			

Brass Material	Cu	Pb	Fe	Ni	Sn	Al	Mn	As	Zn	Impurity
CW602N	61-63	1.7-2.8	0.1	0.3	0.1	0.05	0.1	0.02-0.15	Rem	0.2

Brass Material	Cu	Pb	Fe	Ni	Sn	Si	Mn	P	Zn	Impurity
C69300	73-77	0.09	0.1	0.1	0.2	2.7-3.4	0.1	0.04-0.15	Rem	0.5

Cu	Copper
Pb	Lead
Fe	Iron
Zn	Zinc
Ni	Nickel
Co	Cobalt
As	Arsenic

S	Sulfur
P	Phosphorus
Al	Aluminum
Si	Silicon
Sb	Antimony
Sn	Tin

FULL PORT BALL VALVES

Forged brass body full port
 Double Sealing Stem With O-Ring and Teflon
 Heavy duty rust resistant handle with grip
 Allows draining of the non-pressure side of the valve when close
 Thread ends conform to ANSI B1.20.1
 Solder ends conform to ANSI B16.18
 CRN Registered

CERTIFIED TO

- NSF/ANSI 372,
- AB 1953-2006
- FM 1140
- UL 842
- CGA 3.16-M88
- CGA CR91-002
- ASME B16.33
- ASME B16.38
- ASME B16.44
- ANSI Z21.15

1/4"-2": 600 PSI Non-Shock WOG, 175PSI
 2-1/2"-4": 400 PSI Non-Shock WOG
 temperature range:
 1/4"-2": -40°C to 65°C (-4°F to 149°F),
 2-1/2"-4": -20°C to 65°C (-4°F to 149°F)



Material List

NO.	Part Name	Material	QTY
1	Body	Brass	1
2	Sealing Washer	PTFE	2
3	Ball	Brass	1
4	O-Ring	NBR, EPDM	1
5	Packing Nut	Brass	1
6	Stem	Brass	1
7	Locking Nut	Stainless steel	1
8	Ball Packing	PTFE	1
9	Handle	Steel + PVC	1
10	Cap	Brass	1

FULL PORT BALL VALVES



EFFN



	EFFN-01LF	EFFN-02LF	EFFN-03LF
Structure	1/4"FPTxFPT	3/8"FPTxFPT	1/2"FPTxFPT
Port size	0.394	0.394	0.590
	EFFN-04LF	EFFN-05LF	EFFN-06LF
Structure	3/4"FPTxFPT	1"FPTxFPT	1-1/4"FPTxFPT
Port size	0.748	0.941	1.260
	EFFN-07LF	EFFN-08LF	EFFN-09LF
Structure	1-1/2"FPTxFPT	2"FPTxFPT	2-1/2"FPTxFPT
Port size	1.575	1.929	2.519
	EFFN-10LF	EFFN-11LF	
Structure	3"FPTxFPT	4"FPTxFPT	
Port size	2.874	3.819	



EFFDN



	EFFDN-01LF	EFFDN-02LF	EFFDN-03LF
Structure	1/2"FPTxFPT	3/4"FPTxFPT	1"FPTxFPT
Port size	0.590	0.748	0.941

FULL PORT BALL VALVES



EFFMN



	EFFMN-01LF	EFFMN-02LF	EFFMN-03LF
Structure	1/4"FPT×MPT	3/8"FPT×MPT	1/2"FPT×MPT
Port size	0,394	0,394	0,590
	EFFMN-04LF	EFFMN-05LF	EFFMN-06LF
Structure	3/4"FPT×MPT	1"FPT×MPT	1-1/4"FPT×MPT
Port size	0,748	0,941	1,260
	EFFMN-07LF	EFFMN-08LF	
Structure	1-1/2"FPT×MPT	2"FPT×MPT	
Port size	1,575	1,929	



EFFLMND



	EFFLMND-01LF	EFFLMND-02LF	EFFLMND-03LF
Structure	1/2"FPT×1/2"MPT	3/4"FPT×3/4"MPT	1"FPT×1"MPT
Port size	0,590	0,748	0,941



EFFCC



	EFFCC-01LF	EFFCC-02LF	EFFCC-03LF
Structure	1/2"Comp×Comp	3/4"Comp×Comp	1"Comp×Comp
Port size	0,590	0,748	0,941

FULL PORT BALL VALVES



EFFMM



	EFFMM-01LF	EFFMM-02LF	EFFMM-03LF
Structure	1/4"MPT×MPT	3/8"MPT×MPT	1/2"MPT×MPT
Port size	0,394	0,394	0,590
	EFFMM-04LF	EFFMM-05LF	EFFMM-06LF
Structure	3/4"MPT×MPT	1"MPT×MPT	1-1/4"MPT×MPT
Port size	0,748	0,941	1,260
	EFFMM-07LF	EFFMM-08LF	
Structure	1-1/2"MPT×MPT	2"MPT×MPT	
Port size	1,575	1,929	



EFFLMMD



	EFFLMMD-01LF	EFFLMMD-02LF	EFFLMMD-03LF
Structure	1/2"MPT×1/2"MPT	3/4"MPT×3/4"MPT	1"MPT×1"MPT
Port size	0,590	0,748	0,941

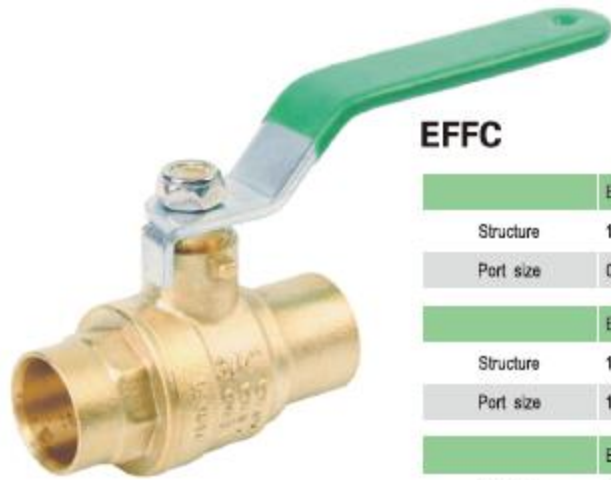


EFFCCD



	EFFCCD-01LF	EFFCCD-02LF	EFFCCD-03LF
Structure	1/2"Comp×Comp	3/4"Comp×Comp	1"Comp×Comp
Port size	0,590	0,748	0,941

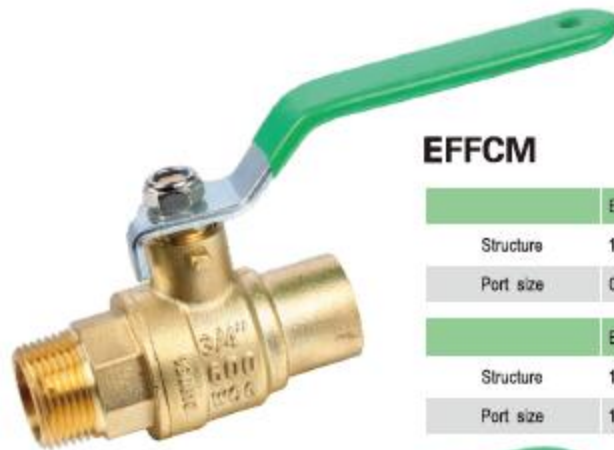
FULL PORT BALL VALVES



EFFC



	EFFC-01LF	EFFC-02LF	EFFC-03LF
Structure	1/2"Sweat×Sweat	3/4"Sweat×Sweat	1"Sweat×Sweat
Port size	0,590	0,748	0,941
	EFFC-04LF	EFFC-05LF	EFFC-06LF
Structure	1-1/4"Sweat×Sweat	1-1/2"Sweat×Sweat	2"Sweat×Sweat
Port size	1,260	1,575	1,929
	EFFC-07LF	EFFC-08LF	EFFC-09LF
Structure	2-1/2"Sweat×Sweat	3"Sweat×Sweat	4"Sweat×Sweat
Port size	2,519	2,874	3,819



EFFCM



	EFFCM-01LF	EFFCM-02LF	EFFCM-03LF
Structure	1/2"F.SwL×1/2"MPT	3/4"F.SwL×3/4"MPT	1"F.SwL×1"MPT
Port size	0,590	0,748	0,941
	EFFCM-04LF	EFFCM-05LF	EFFCM-06LF
Structure	1-1/4"F.SwL×1-1/4"MPT	1-1/2"F.SwL×1-1/2"MPT	2"F.SwL×2"MPT
Port size	1,260	1,575	1,929



EFFCN



	EFFCN-01LF	EFFCN-02LF	EFFCN-03LF
Structure	1/2"F.SwL×1/2"FPT	3/4"F.SwL×3/4"FPT	1"F.SwL×1"FPT
Port size	0,590	0,748	0,941
	EFFCN-04LF	EFFCN-05LF	EFFCN-06LF
Structure	1-1/4"F.SwL×1-1/4"FPT	1-1/2"F.SwL×1-1/2"FPT	2"F.SwL×2"FPT
Port size	1,260	1,575	1,929

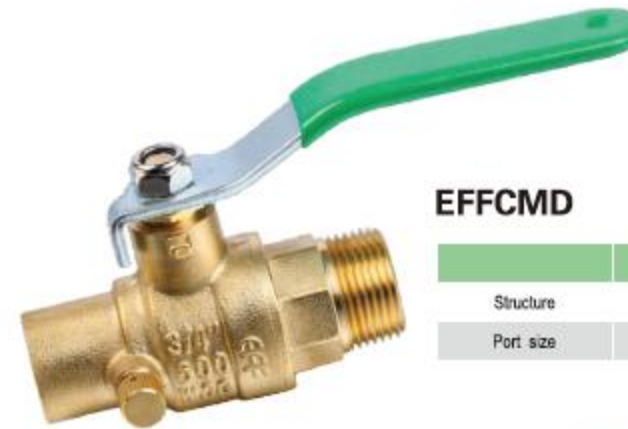
FULL PORT BALL VALVES



EFFDC



	EFFDC-01LF	EFFDC-02LF	EFFDC-03LF
Structure	1/2"Sweat×Sweat	3/4"Sweat×Sweat	1"Sweat×Sweat
Port size	0,590	0,748	0,941



EFFCMD



	EFFCMD-01LF	EFFCMD-02LF	EFFCMD-03LF
Structure	1/2"F.SwL×1/2"MPT	3/4"F.SwL×3/4"MPT	1"F.SwL×1"MPT
Port size	0,590	0,748	0,941



EFFCND



	EFFCND-01LF	EFFCND-02LF	EFFCND-03LF
Structure	1/2"F.SwL×1/2"FPT	3/4"F.SwL×3/4"FPT	1"F.SwL×1"FPT
Port size	0,590	0,748	0,941



- Forged brass body standard port for use in Pex piping system only for water
- Double Sealing Stem With O-Ring and Teflon
- Heavy duty rust resistant handle with grip
- PEX design to ASTM F-1807
- Solder ends conform to ANSI B16.18
- Thread ends conform to ANSI B1.20.1
- Pressure:
- 3/8"-1-1/4" 400 PSI Non-Shock WOG
- CERTIFIED TO
 - NSF/ANSI 372,
 - AB 1953-2006
 - ASTM F 1807
 - CSA B 137,5

PEX BALL VALVES (F1870)

BUTTERFLY HANDLE AVAILABLE



EFFPP

	EFFPP-01LF	EFFPP-02LF	EFFPP-03LF
Structure	1/2"PEX x PEX	3/4"PEX x PEX	1"PEX x PEX
Port size	0,350	0,530	0,748
	EFFPP-04LF		
Structure	1-1/4"PEX x PEX		
Port size	0,906		



EFFPPD

	EFFPPD-01LF	EFFPPD-02LF	EFFPPD-03LF
Structure	1/2"PEX x PEX	3/4"PEX x PEX	1"PEX x PEX
Port size	0,350	0,530	0,748
	EFFPPD-04LF		
Structure	1-1/4"PEX x PEX		
Port size	0,906		



PEX BALL VALVES (F1870)

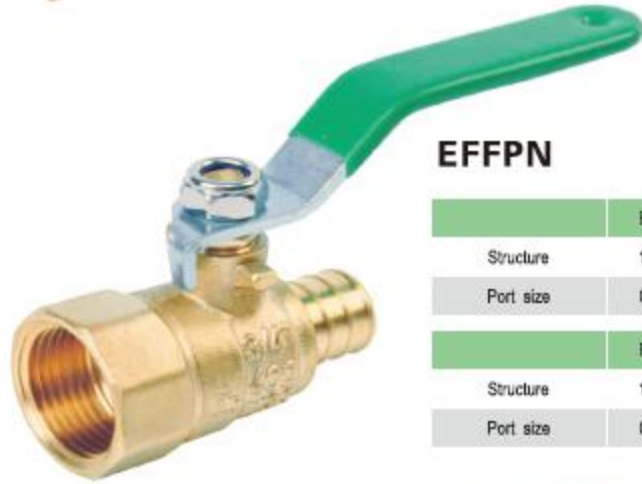
BUTTERFLY HANDLE AVAILABLE



EFFPC



	EFFPC-01LF	EFFPC-02LF	EFFPC-03LF
Structure	1/2"PEX x Sweat	3/4"PEX x Sweat	1"PEX x Sweat
Port size	0,350	0,530	0,748



EFFPN



	EFFPN-01LF	EFFPN-02LF	EFFPN-03LF
Structure	1/2"PEX x FPT	3/4"PEX x FPT	1"PEX x FPT
Port size	0,350	0,530	0,748

	EFFPN-04LF		
Structure	1-1/4"PEX x FPT		
Port size	0,906		



EFFPM

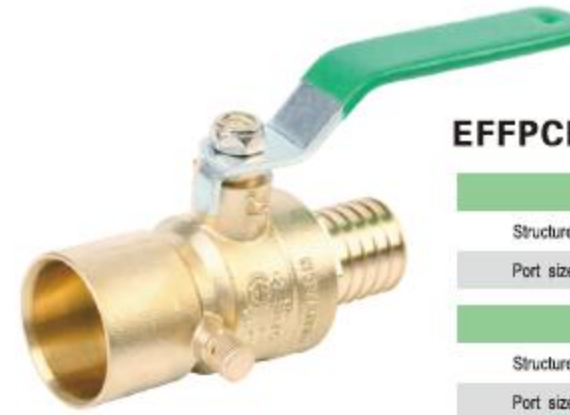


	EFFPM-01LF	EFFPM-02LF	EFFPM-03LF
Structure	1/2"PEX x MPT	3/4"PEX x MPT	1"PEX x MPT
Port size	0,350	0,530	0,748

	EFFPM-04LF		
Structure	1-1/4"PEX x MPT		
Port size	0,906		

PEX BALL VALVES (F1870)

BUTTERFLY HANDLE AVAILABLE

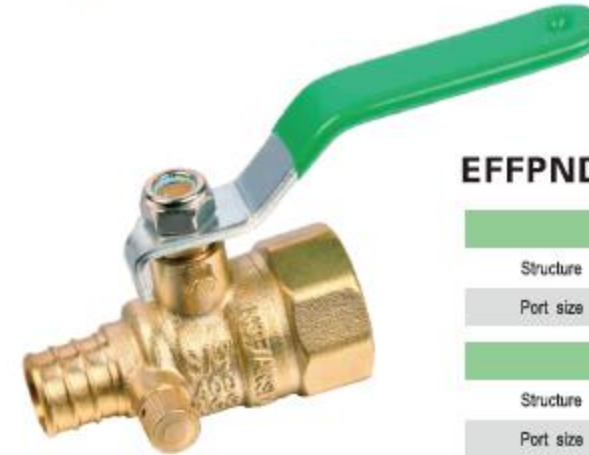


EFFPCD



	EFFPCD-01LF	EFFPCD-02LF	EFFPCD-03LF
Structure	1/2"Sweat x PEX	3/4"Sweat x PEX	1"Sweat x PEX
Port size	0,350	0,530	0,748

	EFFPCD-04LF		
Structure	1-1/4"Sweat x PEX		
Port size	0,906		

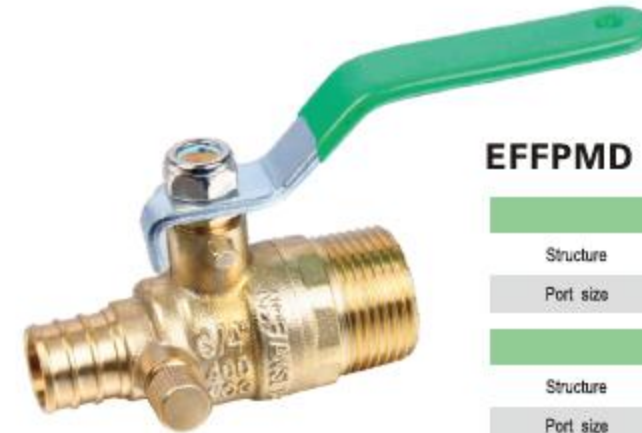


EFFPND



	EFFPND-01LF	EFFPND-02LF	EFFPND-03LF
Structure	1/2"PEX x 1/2"FPT	3/4"PEX x 3/4"FPT	1"PEX x 1"FPT
Port size	0,354	0,531	0,713

	EFFPND-04LF		
Structure	1-1/4"PEX x 1-1/4"FPT		
Port size	0,874		



EFFPMD



	EFFPMD-01LF	EFFPMD-02LF	EFFPMD-03LF
Structure	1/2"PEX x 1/2"MPT	3/4"PEX x 3/4"MPT	1"PEX x 1"MPT
Port size	0,354	0,531	0,713

	EFFPMD-04LF		
Structure	1-1/4"PEX x 1-1/4"MPT		
Port size	0,874		



- Forged Brass 2 pc Construction
- Cold Compression F1960 Connections
- Lead Free Stainless Steel Ball
- Blow-out Proof Triple Seal Stem & PTFE Seats & EPDM O-Rings
- Rust Resistant Handle
- Rated 400 psi W.O.G.
- CSA Certified Standard B125.3
- NSF/ANSI Standard 372 Certified
- Max Temp Rating: 300°F (150°C)

COLD EXPANSION PEX VALVES(F1960)

BUTTERFLY HANDLE AVAILABLE



EFFUU



	EFFUU-01LF	EFFUU-02LF
Structure	1/2"F1960 × 1/2"F1960	3/4"F1960 × 3/4"F1960
Port size	0,354	0,512
	EFFUU-03LF	EFFUU-04LF
Structure	1"F1960 × 1"F1960	1-1/4"F1960 × 1-1/4"F1960
Port size	0,748	0,972
	EFFUU-05LF	EFFUU-06LF
Structure	1-1/2"F1960 × 1-1/2"F1960	2"F1960 × 2"F1960
Port size	1,260	1,559
	EFFUU-07LF	EFFUU-08LF
Structure	2-1/2"F1960 × 2-1/2"F1960	3"F1960 × 3"F1960
Port size	1,949	2,461



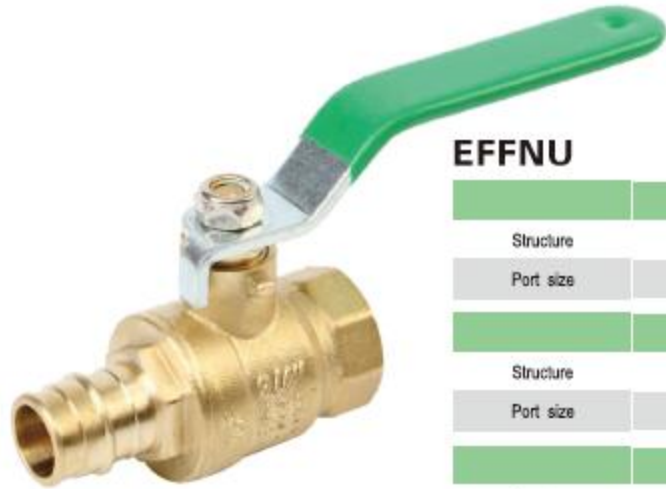
EFFUUD



	EFFUUD-01LF	EFFUUD-02LF
Structure	1/2"F1960 × 1/2"F1960	3/4"F1960 × 3/4"F1960
Port size	0,354	0,512
	EFFUUD-03LF	EFFUUD-04LF
Structure	1"F1960 × 1"F1960	1-1/4"F1960 × 1-1/4"F1960
Port size	0,748	0,972

COLD EXPANSION PEX VALVES(F1960)

BUTTERFLY HANDLE AVAILABLE



EFFNU



	EFFNU-01LF	EFFNU-02LF
Structure	1/2"FPT × 1/2"F1960	3/4"FPT × 3/4"F1960
Port size	0.590	0.748
	EFFNU-03LF	EFFNU-04LF
Structure	1"FPT × 1"F1960	1-1/4"FPT × 1-1/4"F1960
Port size	0.941	0.1,260
	EFFNU-05LF	EFFNU-06LF
Structure	1-1/2"FPT × 1-1/2"F1960	2"FPT × 2"F1960
Port size	1,575	1,929
	EFFNU-07LF	EFFNU-08LF
Structure	2-1/2"FPT × 2-1/2"F1960	3"FPT × 3"F1960
Port size	2,519	2,874



EFFNUD



	EFFNUD-01LF	EFFNUD-02LF
Structure	1/2"FPT × 1/2"F1960	3/4"FPT × 3/4"F1960
Port size	0,590	0,748
	EFFNUD-03LF	EFFNUD-04LF
Structure	1"FPT × 1"F1960	1-1/4"FPT × 1-1/4"F1960
Port size	0,941	0,1,260

COLD EXPANSION PEX VALVES(F1960)

BUTTERFLY HANDLE AVAILABLE



EFFCU



	EFFCU-01LF	EFFCU-02LF
Structure	1/2"F,SwL × 1/2"F1960	3/4"F,SwL × 3/4"F1960
Port size	0.590	0.748
	EFFCU-03LF	EFFCU-04LF
Structure	1"F,SwL × 1"F1960	1-1/4"F,SwL × 1-1/4"F1960
Port size	0.941	1.260
	EFFCU-05LF	EFFCU-06LF
Structure	1-1/2"F,SwL × 1-1/2"F1960	2"F,SwL × 2"F1960
Port size	1,575	1,929
	EFFCU-07LF	EFFCU-08LF
Structure	2-1/2"F,SwL × 2-1/2"F1960	3"F,SwL × 3"F1960
Port size	2,519	2,874



EFFCUD



	EFFCUD-01LF	EFFCUD-02LF
Structure	1/2"F,SwL × 1/2"F1960	3/4"F,SwL × 3/4"F1960
Port size	0,590	0,748
	EFFCUD-03LF	EFFCUD-04LF
Structure	1"F,SwL × 1"F1960	1-1/4"F,SwL × 1-1/4"F1960
Port size	0,941	1,20



- Forged brass 2pc Construction
- Blow-out Proof Triple Seal Stem, Dual PTFE Seats & EPDM O-Rings
- Rust Resistant Handle
- Lead Free Stainless Steel Ball
- 1/2"-2" rated 600 PSI W.O.G.
- NSF/ANSI 372 Certified

CHAIN BALL VALVES



EFFNCH



	EFFNCH-01LF	EFFNCH-02LF
Structure	1/2"FPT x 3/4"GHT	3/4"FPT x 3/4"GHT
Port size	0,590	0,748
	EFFNCH-03LF	
Structure	1"FPT x 3/4"GHT	
Port size	0,941	

EFFCCH



	EFFCCH-01LF	EFFCCH-02LF
Structure	1/2"SW x 3/4"GHT	3/4"SW x 3/4"GHT
Port size	0,590	0,748
	EFFCCH-03LF	
Structure	1"SW x 3/4"GHT	
Port size	0,941	

EFFMCH



	EFFMCH-01LF	EFFMCH-02LF
Structure	1/2"MPT x 3/4"GHT	3/4"MPT x 3/4"GHT
Port size	0,590	0,748
	EFFMCH-03LF	
Structure	1"MPT x 3/4"GHT	
Port size	0,941	

SIDE PORT BALL VALVES



EFFPV1X

	EFFPV-11LF	EFFPV-12LF	EFFPV-13LF
Structure	3/4" F.SwL x 3/4" MPT W / 1/2" FPT SIDE PORT	1" F.SwL x 1" MPT W / 1/2" FPT SIDE PORT	1-1/4" F.SwL x 1-1/4" MPT W / 1/2" FPT SIDE PORT
Port size	0,748	0,941	1,260
	EFFPV-14LF	EFFPV-15LF	
Structure	1-1/2" F.SwL x 1-1/2" MPT W / 1/2" FPT SIDE PORT	2" F.SwL x 2" MPT W / 1/2" FPT SIDE PORT	
Port size	1,575	1,929	



EFFPV2X

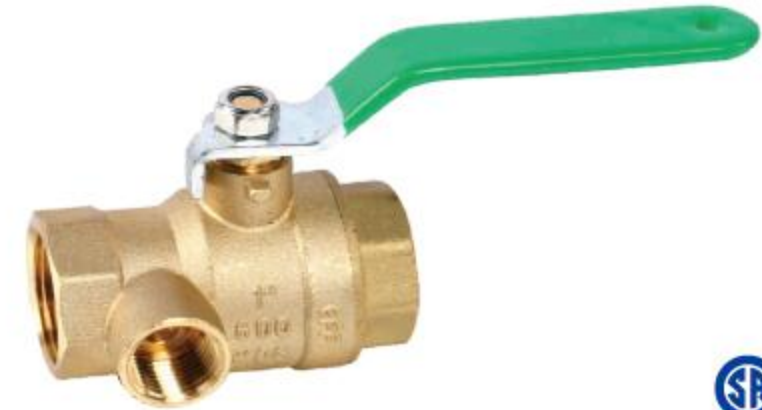
	EFFPV-21LF	EFFPV-22LF	EFFPV-23LF
Structure	3/4" F.SwL x 3/4" F.SwL W / 1/2" FPT SIDE PORT	1" F.SwL x 1" F.SwL W / 1/2" FPT SIDE PORT	1-1/4" F.SwL x 1-1/4" F.SwL W / 1/2" FPT SIDE PORT
Port size	0,748	0,941	1,260
	EFFPV-24LF	EFFPV-25LF	
Structure	1-1/2" F.SwL x 1-1/2" F.SwL W / 1/2" FPT SIDE PORT	2" F.SwL x 2" F.SwL W / 1/2" FPT SIDE PORT	
Port size	1,575	1,929	



EFFPV3X

	EFFPV-31LF	EFFPV-32LF	EFFPV-33LF
Structure	3/4" FPT x 3/4" MPT W / 1/2" FPT SIDE PORT	1" FPT x 1" MPT W / 1/2" FPT SIDE PORT	1-1/4" FPT x 1-1/4" MPT W / 1/2" FPT SIDE PORT
Port size	0,748	0,941	1,260
	EFFPV-34LF	EFFPV-35LF	
Structure	1-1/2" FPT x 1-1/2" MPT W / 1/2" FPT SIDE PORT	2" FPT x 2" MPT W / 1/2" FPT SIDE PORT	
Port size	1,575	1,929	

SIDE PORT BALL VALVES



EFFPV4X

	EFFPV-41LF	EFFPV-42LF	EFFPV-43LF
Structure	3/4" FPT x 3/4" FPT W / 1/2" FPT SIDE PORT	1" FPT x 1" FPT W / 1/2" FPT SIDE PORT	1-1/4" FPT x 1-1/4" FPT W / 1/2" FPT SIDE PORT
Port size	0,748	0,941	1,260
	EFFPV-44LF	EFFPV-45LF	
Structure	1-1/2" FPT x 1-1/2" FPT W / 1/2" FPT SIDE PORT	2" FPT x 2" FPT W / 1/2" FPT SIDE PORT	
Port size	1,575	1,929	



EFFPV5X

	EFFPV-51LF	EFFPV-52LF	EFFPV-53LF
Structure	3/4" F1960 x 3/4" F.SwL W / 1/2" FPT SIDE PORT	1" F1960 x 1" F.SwL W / 1/2" FPT SIDE PORT	1-1/4" F1960 x 1-1/4" F.SwL W / 1/2" FPT SIDE PORT
Port size	0,748	0,941	1,260
	EFFPV-54LF	EFFPV-55LF	
Structure	1-1/2" F1960 x 1-1/2" F.SwL W / 1/2" FPT SIDE PORT	2" F1960 x 2" F.SwL W / 1/2" FPT SIDE PORT	
Port size	1,575	1,929	

FLANGED BALL VALVES (SWIVEL)



EFFFLG1X

	EFFFLG-11LF	EFFFLG-12LF
Structure	1/2"FPT × FLA	3/4"FPT × FLA
Port size	0,590	0,748
	EFFFLG-13LF	EFFFLG-14LF
Structure	1"FPT × FLA	1-1/4"FPT × FLA
Port size	0,941	1,260



EFFFLG2X

	EFFFLG-21LF	EFFFLG-22LF
Structure	1/2"Sweat × FLA	3/4"Sweat × FLA
Port size	0,590	0,748
	EFFFLG-23LF	EFFFLG-24LF
Structure	1"Sweat × FLA	1-1/4"Sweat × FLA
Port size	0,984	1,260



EFFFLG3X

	EFFFLG-31LF	EFFFLG-32LF
Structure	1/2"FLG × 1/2"F.Swt.	3/4"FLG × 3/4"F.Swt.
Port size	0,590	0,748
	EFFFLG-33LF	EFFFLG-34LF
Structure	1"FLG × 1"F.Swt.	1-1/4"FLG × 1-1/4"F.Swt.
Port size	0,941	1,260

FLANGED BALL VALVES (FIXED)



EFFFLG5X

	EFFFLG-51LF	EFFFLG-52LF
Structure	1/2"FLG × 1/2"FPT	3/4"FLG × 3/4"FPT
Port size	0,590	0,748
	EFFFLG-53LF	EFFFLG-54LF
Structure	1"FLG × 1"FPT	1-1/4"FLG × 1-1/4"FPT
Port size	0,941	1,260
	EFFFLG-56LF	EFFFLG-56LF
Structure	1-1/2"FLG × 1-1/2"FPT	2"FLG × 2"FPT
Port size	1,575	1,929



EFFFLG6X

	EFFFLG-61LF	EFFFLG-62LF
Structure	1/2"FLG × 1/2"F.Swt.	3/4"FLG × 3/4"F.Swt.
Port size	0,590	0,748
	EFFFLG-63LF	EFFFLG-64LF
Structure	1"FLG × 1"F.Swt.	1-1/4"FLG × 1-1/4"F.Swt.
Port size	0,941	1,260
	EFFFLG-66LF	EFFFLG-66LF
Structure	1-1/2"FLG × 1-1/2"F.Swt.	2"FLG × 2"F.Swt.
Port size	1,575	1,929



- EFF's new patented angled ball valve is a revolutionary way to save both installation time and extra fittings, ultimately saving you both time and money.
- Designed for use on a variety of applications including Water Meters, Commercial Water Heaters/Boilers, Fan Coils, & Radiant Baseboard Systems.
- Lead Free forged brass construction
- Stainless Steel Ball Standard
- CSA B125.1-12, NSF-372-2010 Certified
- Rated 600 psi W.O.G.

INTEGRAL 90° BALL VALVES



MANIFOLD VALVES



	MVA10LF	MVA1002LF
Structure	1/2"F1960 x 1/2"F1960	3/4"F1960 x 3/4"F1960
Port size	0,354	0,512
	MVA1003LF	
Structure	1"F1960 x 1"F1960	
Port size	0,748	



EFFN (90° ELBOW)



	EFFN-21LF	EFFN-22LF
Structure	1/2"FPT x 1/2"FPT	3/4"FPT x 3/4"FPT
Port size	0,590	0,748
	EFFN-23LF	
Structure	1"FPT x 1"FPT	
Port size	0,941	



EFFDN (90° ELBOW)



	EFFDN-31LF	EFFDN-32LF
Structure	1/2"FPT x 1/2"FPT	3/4"FPT x 3/4"FPT
Port size	0,590	0,748
	EFFDN-33LF	
Structure	1"FPT x 1"FPT	
Port size	0,941	



EFFCN (90° ELBOW)



	EFFCN-21LF	EFFCN-22LF
Structure	1/2" F, SwL × 1/2" FPT	3/4" F, SwL × 3/4" FPT
Port size	0,590	0,748
	EFFCN-23LF	
Structure	1" F, SwL × 1" FPT	
Port size	0,941	



EFFPN (90° ELBOW)



	EFFPN-21LF	EFFPN-22LF
Structure	1/2" FPT × 1/2" PEX	3/4" FPT × 3/4" PEX
Port size	0,590	0,748
	EFFPN-23LF	
Structure	1" FPT × 1" PEX	
Port size	0,941	



EFFUN (90° ELBOW)



	EFFUN-21LF	EFFUN-22LF
Structure	1/2" FPT × 1/2" F1960	3/4" FPT × 3/4" F1960
Port size	0,590	0,748
	EFFUN-23LF	
Structure	1" FPT × 1" F1960	
Port size	0,941	



EFFCND (90° ELBOW)



	EFFCND-31LF	EFFCND-32LF
Structure	1/2" F, SwL × 1/2" FPT	3/4" F, SwL × 3/4" FPT
Port size	0,590	0,748
	EFFCND-33LF	
Structure	1" F, SwL × 1" FPT	
Port size	0,941	



EFFPND (90° ELBOW)



	EFFPND-31LF	EFFPND-32LF
Structure	1/2" FPT × 1/2" PEX	3/4" FPT × 3/4" PEX
Port size	0,590	0,748
	EFFPND-33LF	
Structure	1" FPT × 1" PEX	
Port size	0,941	



EFFUND (90° ELBOW)



	EFFUND-31LF	EFFUND-32LF
Structure	1/2" FPT × 1/2" F1960	3/4" FPT × 3/4" F1960
Port size	0,590	0,748
	EFFUND-33LF	
Structure	1" FPT × 1" F1960	
Port size	0,941	

INTEGRAL 90° BALL VALVES



EFFC (90° ELBOW)



	EFFC-21LF	EFFC-22LF
Structure	1/2"F,SwL × 1/2"F,SwL	3/4"F,SwL × 3/4"F,SwL
Port size	0,590	0,748
	EFFC-23LF	
Structure	1"F,SwL × 1"F,SwL	
Port size	0,941	



EFFPC (90° ELBOW)



	EFFPC-21LF	EFFPC-22LF
Structure	1/2"F,SwL × 1/2"PEX	3/4"F,SwL × 3/4"PEX
Port size	0,590	0,748
	EFFPC-23LF	
Structure	1"F,SwL × 1"PEX	
Port size	0,941	



EFFCU (90° ELBOW)



	EFFCU-21LF	EFFCU-22LF
Structure	1/2"F,SwL × 1/2"F1960	3/4"F,SwL × 3/4"F1960
Port size	0,590	0,748
	EFFCU-23LF	
Structure	1"F,SwL × 1"F1960	
Port size	0,941	

INTEGRAL 90° BALL VALVES



EFFDC (90° ELBOW)



	EFFDC-31LF	EFFDC-32LF
Structure	1/2"F,SwL × 1/2"F,SwL	3/4"F,SwL × 3/4"F,SwL
Port size	0,590	0,748
	EFFDC-33LF	
Structure	1"F,SwL × 1"F,SwL	
Port size	0,941	



EFFPCD (90° ELBOW)



	EFFPCD-31LF	EFFPCD-32LF
Structure	1/2"F,SwL × 1/2"PEX	3/4"F,SwL × 3/4"PEX
Port size	0,590	0,748
	EFFPCD-33LF	
Structure	1"F,SwL × 1"PEX	
Port size	0,941	



EFFCUD (90° ELBOW)



	EFFCUD-31LF	EFFCUD-32LF
Structure	1/2"F,SwL × 1/2"F1960	3/4"F,SwL × 3/4"F1960
Port size	0,590	0,748
	EFFCUD-33LF	
Structure	1"F,SwL × 1"F1960	
Port size	0,941	



Double Sealing Stem With O-Ring and Teflon
 Thread ends conform to ANSI B1.20.1 (NPT), ASME B1.1 (Flare Thread)
 The Drain Gas Ball Valve With 1/8" Tap
 Pressure
 125psig, 5 psig, 1/2 psig GBV, GBVD
 5psig, 2 psig, 1/2 psig, FIBV, FMBV, FFBV, FIBVD, FFBVD
 temperature range
 -40°C to 65°C (-4°F to 149°F), GBV, GBVD
 -20°C to 65°C (-4°F to 149°F), FIBV, FMBV, FFBV, FIBVD, FFBVD

GAS BALL VALVES

GBV HEX HEAD AVAILABLE



	GBV-038	GBV-01
Structure	3/8"FPT x 3/8"FPT	1/2"FPT x 1/2"FPT
Port size	0,394	0,394
	GBV-02	GBV-03
Structure	3/4"FPT x 3/4"FPT	1"FPT x 1"FPT
Port size	0,590	0,748



FIBV



	FIBV-01	FIBV-02
Structure	3/8"Flare x 3/8"FPT	3/8"Flare x 1/2"FPT
Port size	0,268	0,268
	FIBV-03	FIBV-04
Structure	1/2"Flare x 1/2"FPT	5/8"Flare x 1/2"FPT
Port size	0,378	0,590
	FIBV-05	
Structure	1/2"Flare x 3/4"FPT	
Port size	0,378	



GAS BALL VALVES



FFBV



	FFBV-01	FFBV-02
Structure	3/8"Flare × 3/8"Flare	1/2"Flare × 1/2"Flare
Port size	0,268	0,378
	FFBV-03	
Structure	5/8"Flare × 5/8"Flare	
Port size	0,590	



FMBV



	FMBV-01	FMBV-02
Structure	3/8"Flare × 1/2"MPT	1/2"Flare × 1/2"MPT
Port size	0,268	0,378



MIBV



	MIBV-01	MIBV-02
Structure	3/8"FPT × 3/8"MPT	1/2"FPT × 3/8"MPT
Port size	0,394	0,394
	MIBV-03	
Structure	1/2"FPT × 1/2"MPT	
Port size	0,394	

GAS BALL VALVES



FIBVD



	FIBVD-01	FIBVD-02
Structure	3/8"Flare × 1/8"FPT W/1/8"Port	3/8"Flare × 1/2"FPT W/1/8"Port
Port size	0,268	0,268
	FIBVD-03	FIBVD-04
Structure	1/2"Flare × 1/2"FPT W/1/8"Port	5/8"Flare × 1/2"FPT W/1/8"Port
Port size	0,378	0,590
	FIBVD-05	
Structure	5/8"Flare × 3/4"FPT W/1/8"Port	
Port size	0,590	



FFBVD



	FFBVD-01	FFBVD-02
Structure	3/8"FL × 3/8"FL W/1/8"Port	1/2"FL × 1/2"FL W/1/8"Port
Port size	0,268	0,378
	FFBVD-03	
Structure	5/8"FL × 5/8"FL W/1/8"Port	
Port size	0,590	



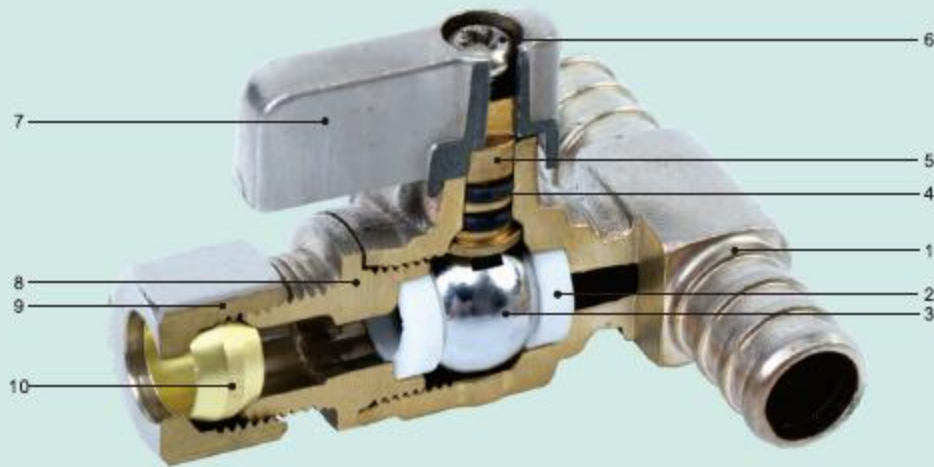
GBVD



	GBVD-01	GBVD-02
Structure	1/2"FPT × 1/2"FPT W/1/8"Port	3/4"FPT × 3/4"FPT W/1/8"Port
Port size	0,268	0,378

1/4 TURN MINI BALL VALVES

You can use them on both plumbing and HVAC applications
 Quarter turn operation
 Self lubricating Teflon seals
 Double "O" Ring for safety
 Available for copper, Iron, CPVC, PEX Tube
 Conform to ASME A112.18.1 CSA V125.1 NSF/ANSI 372



Material List

NO.	Part Name	Material	QTY
1	Body	Brass	1
2	Sealing Washer	PTFE	2
3	Ball	Brass	1
4	O-Ring	NBR, EPDM	1
5	Stem	Brass	1
6	Screw	Stainless steel	1
7	Handle	Zn-alloy	1
8	Cap	Brass	1
9	Nut Cap	Brass	1
10	Compression Ring	Brass	1

1/4 TURN MINI BALL VALVES-STRAIGHT



Item#	Description
EFF121-01-LF	1/2" Sweat x 1/2" Sweat x Straight Mini Ball Valve
EFF121-02-LF	1/2" Sweat x 1/4" OD Comp. Straight Mini Ball Valve
EFF121-03-LF	1/2" Sweat x 3/8" OD Comp. Straight Mini Ball Valve
EFF121-04-LF	1/2" Sweat x 5/8" OD Comp. Straight Mini Ball Valve
EFF121-05-LF	5/8" OD Comp. x 1/4" OD Comp. Straight Mini Ball Valve
EFF121-06-LF	5/8" OD Comp. x 3/8" OD Comp. Straight Mini Ball Valve
EFF121-07-LF	5/8" OD Comp. x 5/8" OD Comp. Straight Mini Ball Valve
EFF121-08-LF	1/2" PEX x 1/4" OD Comp. Straight Mini Ball Valve
EFF121-09-LF	1/2" PEX x 3/8" OD Comp. Straight Mini Ball Valve
EFF121-10-LF	1/2" PEX x 1/2" PEX Straight Mini Ball Valve
EFF121-11-LF	1/2" PEX x 1/2" Sweat Straight Mini Ball Valve
EFF121-12-LF	3/8" FPT x 3/8" OD Comp. Straight Mini Ball Valve
EFF121-13-LF	1/2" FPT x 3/8" OD Comp. Straight Mini Ball Valve
EFF121-14-LF	3/8" OD F. Comp. x 3/8" OD Comp. Straight Mini Ball Valve
EFF121-15-LF	1/4" OD Comp. x 1/4" OD Comp. Straight Mini Ball Valve
EFF121-16-LF	3/8" OD Comp. x 1/4" OD Comp. Straight Mini Ball Valve
EFF121-17-LF	3/8" OD Comp. x 3/8" OD Comp. Straight Mini Ball Valve
EFF121-24-LF	5/8" OD Comp. x 3/4" GHT Straight Mini Ball Valve
EFF121-25-LF	1/2" M. Sweat. x 3/4" GHT Straight Mini Ball Valve
EFF121-26-LF	3/4" GHT x 3/4" F. GHT Straight Mini Ball Valve
EFF121-29-LF	1/4" FPT x 3/8" F. Comp. Straight Ball Valve
EFF121-30S-LF	1/2" MPT x 3/4" GHT Straight Mini Ball Valve
EFF121-40S-LF	1/4" MPT x 3/4" GHT Straight Mini Ball Valve
EFF121-41-LF	3/4" F. Swt. x 3/4" GHT Straight Mini Ball Valve
EFF121-61-LF	1/2" PEX x 3/4" GHT Straight Mini Ball Valve
EFF121-62-LF	3/4" PEX x 3/4" GHT Straight Mini Ball Valve

1/4 TURN MINI BALL VALVES-ANGLED



Item#	Description
EFF122-01-LF	1/2"Sweat x 1/2"Sweat Angled Mini Ball Valve
EFF122-02-LF	1/2"Sweat x 1/4"OD Comp,Angled Mini Ball Valve
EFF122-03-LF	1/2"Sweat x 3/8"OD Comp,Angled Mini Ball Valve
EFF122-04-LF	1/2"Sweat x 5/8"OD Comp,Angled Mini Ball Valve
EFF122-05-LF	5/8"OD Comp. x 1/4"OD Comp. Angled Mini Ball Valve
EFF122-06-LF	5/8"OD Comp. x 3/8"OD Comp,Angled Mini Ball Valve
EFF122-07-LF	5/8"OD Comp. x 5/8"OD Comp,Angled Mini Ball Valve
EFF122-08-LF	1/2"PEX x 1/4"OD Comp,Angled Mini Ball Valve
EFF122-09-LF	1/2"PEX x 3/8"OD Comp,Angled Mini Ball Valve
EFF122-10-LF	1/2"PEX x 1/2"PEX Angled Mini Ball Valve
EFF122-11-LF	1/2"PEX x 1/2"Sweat Angled Mini Ball Valve
EFF122-12-LF	3/8"FPT x 3/8"OD Comp,Angled Mini Ball Valve
EFF122-13-LF	1/2"FPT x 3/8"OD Comp,Angled Mini Ball Valve
EFF122-14-LF	3/8"OD F Comp. x 3/8"OD Comp,Angled Mini Ball Valve
EFF122-15-LF	1/4"OD Comp. x 1/4"OD Comp,Angled Mini Ball Valve
EFF122-16-LF	3/8"OD Comp. x 1/4"OD Comp,Angled Mini Ball Valve
EFF122-17-LF	3/8"OD Comp. x 3/8"OD Comp,Angled Mini Ball Valve
EFF122-24-LF	5/8"OD Comp. x 3/4"GHT Angled Mini Ball Valve
EFF122-25-LF	1/2"M.Sweat x 3/4"GHT Angled Mini Ball Valve
EFF122-25F-LF	1/2"F,Sweat x 3/4"GHT Angled Mini Ball Valve
EFF122-26-LF	3/4"GHT x 3/4"F,GHT, Angled Mini Valve
EFF122-29-LF	3/4"GHT x 1/2"PEX(2"Long Shank) Angled Mini Ball Valve
EFF122-29S-LF	3/4"GHT x 1/2"PEX Angled Mini Ball Valve
EFF122-30-LF	3/4"GHT x 1/2"Dual(C or M)(2"Long Shank) Angled Mini Ball Valve
EFF122-30S-LF	3/4"GHT x 1/2"Dual(C or M) Angled Mini Ball Valve
EFF122-31-LF	1/4"OD Comp. x 1/2"Dual(C or M)(2"Long Shank) Angled Mini Ball Valve
EFF122-32-LF	1/2"OD Comp. x 1/2"PEX(2"Long Shank) Angled Mini Ball Valve
EFF122-41-LF	3/4"F,SwL x 3/4"GHT Angled Mini Ball Valve
EFF122-61-LF	1/2"PEX x 3/4"GHT Angled Mini Ball Valve
EFF122-62-LF	3/4"PEX x 3/4"GHT Angled Mini Ball Valve Mini Ball Valve

1/4 TURN MINI BALL VALVES-TEE



Item#	Description
EFF123-01-LF	1/2"PEX x 1/2"PEX 1/2"Sweat(One Piece)
EFF123-02-LF	1/2"PEX x 1/2"PEX 1/4"OD Comp,(One Piece)
EFF123-03-LF	1/2"PEX x 1/2"PEX 3/8"OD Comp,(One Piece)
EFF123-04-LF	1/2"PEX x 1/2"PEX 5/8"OD Comp,(One Piece)
EFF123-05-LF	1/2"PEX x 1/2"PEX 1/2"Pax(One Piece)
EFF123-06-LF	5/8"OD Comp. x 5/8"OD Comp. x 1/2"Sweat(One Piece)
EFF123-07-LF	5/8"OD Comp. x 5/8"OD Comp. x 1/4"OD Comp,(One Piece)
EFF123-08-LF	5/8"OD Comp. x 5/8"OD Comp. x 3/8"OD Comp,(One Piece)
EFF123-09-LF	5/8"OD Comp. x 5/8"OD Comp. x 5/8"OD Comp,(One Piece)
EFF123-10-LF	5/8"OD Comp. x 5/8"OD Comp. x 1/2"PEX(One Piece)
EFF123-11-LF	3/8"OD Comp. x 1/2"Sweat x 5/8"OD Comp. Mini Ball Valve(One Piece)
EFF123-12-LF	3/8"OD Comp. x 1/4"OD Comp. x 5/8"OD Comp. Mini Ball Valve(One Piece)
EFF123-13-LF	3/8"OD Comp. x 3/8"OD Comp. x 5/8"OD Comp. Mini Ball Valve(One Piece)
EFF123-14-LF	3/8"OD Comp. x 5/8"OD Comp. x 5/8"OD Comp. Mini Ball Valve(One Piece)
EFF123-15-LF	3/8"OD Comp. x 1/2"PEX x 5/8"OD Comp. Mini Ball Valve(One Piece)
EFF123-16-LF	3/8"OD Comp. x 1/2"Sweat x 1/2"Sweat Mini Ball Valve(One Piece)
EFF123-17-LF	3/8"OD Comp. x 1/4"OD Comp. x 1/2"Sweat Mini Ball Valve(One Piece)
EFF123-18-LF	3/8"OD Comp. x 3/8"OD Comp. x 1/2"Sweat Mini Ball Valve(One Piece)
EFF123-19-LF	3/8"OD Comp. x 5/8"OD Comp. x 1/2"Sweat Mini Ball Valve(One Piece)
EFF123-20-LF	3/8"OD Comp. x 1/2"PEX x 1/2"Sweat Mini Ball Valve(One Piece)
EFF123-21-LF	1/2"Sweat x 3/8"OD Comp. x 3/8"F,OD Comp,(One Piece)
EFF123-22-LF	3/8"OD Comp. x 3/8"F,OD Comp. x 1/4"VOD Comp,(One Piece)
EFF123-23-LF	3/8"OD Comp. x 3/8"F,OD Comp. x 3/8"OD Comp,(One Piece)
EFF123-24-LF	5/8"OD Comp. x 3/8"OD Comp. x 3/8"F,OD Comp,(One Piece)
EFF123-25-LF	1/2"PEX x 3/8"OD Comp. x 3/8"F,OD Comp. (One Piece)
EFF123-31-LF	1/2"PEX x 1/2"PEX x 3/4"GHT (One Piece)
EFF123-61-LF	3/4"PEX x 3/4"PEX x 3/4"GHT Mini Ball Valve
EFF123-61-LF	3/4"F,SwL. x 3/4"F,SwL. x 3/4"GHT Mini Ball Valve

1/4 TURN BALANCING VALVES



Item#	Description
EFF124-01-LF	1/2" Sweat x 1/2" Sweat Balancing Mini Ball Valve
EFF124-02-LF	3/8" OD Comp. x 3/8" OD Comp. Balancing Mini Ball Valve
EFF124-03-LF	1/2" PEX x 1/2" PEX Balancing Mini Ball Valve
EFF124-04-LF	1/2" Sweat x 1/2" PEX Balancing Mini Ball Valve



Item#	Description
EFF224-03-LF	1/2" F1960 x 1/4" F1960 Balancing Mini Ball Valve
EFF224-04-LF	1/2" Sweat x 1/2" F1960 Balancing Mini Ball Valve

1/4 TURN LOOSE KEY W/SCREWDRIVER SLOT MINI BALL VALVES



Item#	Description
EFF128-01-LF	1/2" Sweat x 1/2" Sweat x Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-02-LF	1/2" Sweat x 1/4" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-03-LF	1/2" Sweat x 3/8" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-04-LF	1/2" Sweat x 5/8" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-05-LF	5/8" OD Comp. x 1/4" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-06-LF	5/8" OD Comp. x 3/8" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-07-LF	5/8" OD Comp. x 5/8" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-08-LF	1/2" PEX x 1/4" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-09-LF	1/2" PEX x 3/8" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-10-LF	1/2" PEX x 1/2" PEX Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-11-LF	1/2" PEX x 1/2" Sweat Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-12-LF	1/2" FPT x 1/4" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-13-LF	1/2" FPT x 3/8" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-14-LF	3/8" OD F. Comp. x 3/8" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-15-LF	1/4" OD. Comp. x 1/4" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-16-LF	3/8" OD. Comp. x 1/4" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-17-LF	3/8" OD. Comp. x 3/8" OD Comp. Straight Mini Ball Valve Loose Key With Screwdriver slot
EFF128-24-LF	5/8" OD. Comp. x 3/4" GHT Straight Loose Key With Screwdriver slot
EFF128-25-LF	1/2" M. Sweat. x 3/4" GHT Straight Loose Key With Screwdriver slot
EFF128-26-LF	3/4" GHT x 3/4" F. GHT Straight Loose Key With Screwdriver slot
EFF128-29-LF	1/4" FPT x 3/8" F. Comp. Straight Ball Valve Loose Key With Screwdriver slot

1/4 TURN LOOSE KEY W/SCREWDRIVER SLOT MINI BALL VALVES



Item#	Description
EFF129-01-LF	1/2"Sweat x 1/2"Sweat Angled Mini Valve With Loose Key With Screwdriver slot
EFF129-02-LF	1/2"Sweat x 1/4"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-03-LF	1/2"Sweat x 3/8"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-04-LF	1/2"Sweat x 5/8"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-05-LF	5/8"OD Comp, x 1/4"OD Comp, Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-06-LF	5/8"OD Comp, x 3/8"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-07-LF	5/8"OD Comp, x 5/8"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-08-LF	1/2"PEX x 1/4"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-09-LF	1/2"PEX x 3/8"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-10-LF	1/2"PEX x 1/2"PEX Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-11-LF	1/2"PEX x 1/2"Sweat Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-12-LF	1/2"FPT x 1/4"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-13-LF	1/2"FPT x 3/8"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-14-LF	3/8"OD F Comp, x 3/8"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-15-LF	1/4"OD Comp, x 1/4"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-16-LF	3/8"OD Comp, x 1/4"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-17-LF	3/8"OD Comp, x 3/8"OD Comp,Angled Mini Ball Valve With Loose Key With Screwdriver slot
EFF129-24-LF	5/8"OD Comp, x 3/4"GHT Angled With Loose Key With Screwdriver slot
EFF129-25-LF	1/2"M,Sweat x 3/4"GHT Angled With Loose Key With Screwdriver slot
EFF129-25F-LF	1/2"F,Sweat x 3/4"GHT Angled With Loose Key With Screwdriver slot
EFF129-26-LF	3/4"GHT x 3/4"F,GHT, Angled Mini Valve With Loose Key With Screwdriver slot
EFF129-29-LF	3/4"GTH x 1/2"PEX(2"Long Shank) With Loose Key With Screwdriver slot
EFF129-29S-LF	3/4"GTH x 1/2"PEX With Loose Key With Screwdriver slot
EFF129-30-LF	3/4"GTH x 1/2"Dual(C or M)(2"Long Shank) With Loose Key With Screwdriver slot
EFF129-30S-LF	3/4"GTH x 1/2"Dual(C or M) With Loose Key With Screwdriver slot
EFF129-31-LF	1/4"OD Comp, x 1/2"Dual(C or M)(2"Long Shank) With Loose Key With Screwdriver slot
EFF129-32-LF	1/2"OD Comp, x 1/2"PEX(2"Long Shank) With Loose Key With Screwdriver slot

1/4 TURN COLD EXPANSION MINI BALL VALVES



Item#	Description
EFF221-08-LF	1/2"F1960 x 1/4"OD Comp,Straight Mini Ball Valve
EFF221-09-LF	1/2"F1960 x 3/8"OD Comp,Straight Mini Ball Valve
EFF221-10-LF	1/2"F1960 x 1/2"F1960 Straight Mini Ball Valve
EFF221-11-LF	1/2"F1960 x 1/2"Sweat Straight Mini Ball Valve
EFF221-61-LF	1/2"F1960 x 3/4"GHT Straight Mini Ball Valve
EFF221-62-LF	3/4"F1960 x 3/4"GHT Straight Mini Ball Valve



Item#	Description
EFF222-08-LF	1/2"F1960 x 1/4"OD Comp,Angled Mini Ball Valve
EFF222-09-LF	1/2"F1960 x 3/8"OD Comp,Angled Mini Ball Valve
EFF222-10-LF	1/2"F1960 x 1/2"F1960 Angled Mini Ball Valve
EFF222-11-LF	1/2"F1960 x 1/2"Sweat Angled Mini Ball Valve
EFF222-61-LF	1/2"F1960 x 3/4"GHT Angled Mini Ball Valve
EFF222-62-LF	3/4"F1960 x 3/4"GHT Angled Mini Ball Valve

COLD EXPANSION MINI BALL VALVES



Item#	Description
EFF223-01-LF	1/2"F1960 x 1/2"F1960 x 1/2"F1960 Sweat(One Piece)
EFF223-02-LF	1/2"F1960 x 1/2"F1960 x 1/4"OD Comp.(One Piece)
EFF223-03-LF	1/2"F1960 x 1/2"F1960 x 3/8"OD Comp.(One Piece)
EFF223-04-LF	1/2"F1960 x 1/2"F1960 x 5/8"OD Comp.(One Piece)
EFF223-05-LF	1/2"F1960 x 1/2"F1960 x 1/2"F1960(One Piece)
EFF223-51-LF	3/4"F1960 x 3/4"F1960 x 3/4"GHT Mini Ball Valve



- Forged Lead Free Brass body
- Dual PTFE Seats and EPDM O-Rings
- Blue Cast Blade Handle (Optional Red Handle)
- Flush Mount Flange with Silicone Cavity
- Rough Brass Finish
- CSA 125.1 Certified
- Max Pressure Rating: 400psi
- Max Temp Rating: 212°F (100°C)

1/4 TURN HOSE BIBBS



EFFBT

	EFFBT-01LF	EFFBT-02LF
Structure	1/2"MPT × 3/4"GHT	3/4"MPT × 3/4"GHT
Port size	0,394	0,394
	EFFBT-03LF	EFFBT-04LF
Structure	1/2"FPT × 3/4"GHT	3/4"FPT × 3/4"GHT
Port size	0,394	0,394
	EFFBT-05LF	EFFBT-06LF
Structure	1/2"F.Swt. × 3/4"GHT	3/4"F.Swt. × 3/4"GHT
Port size	0,394	0,394



EFFBT

	EFFBT-07LF	EFFBT-08LF
Structure	1/2"PEX × 3/4"GHT	3/4"PEX × 3/4"GHT
Port size	0,394	0,394
	EFFBT-09LF	EFFBT-10LF
Structure	1/2"F1960 × 3/4"GHT	3/4"F1960 × 3/4"GHT
Port size	0,394	0,394

1/4 TURN HOSE BIBBS



EFFBT

	EFFBT-21LF	EFFBT-22LF
Structure	1/2"MPT × 3/4"GHT With Nail Flange	3/4"MPT × 3/4"GHT With Nail Flange
Port size	0,394	0,394
	EFFBT-23LF	EFFBT-24LF
Structure	1/2"FPT × 3/4"GHT With Nail Flange	3/4"FPT × 3/4"GHT With Nail Flange
Port size	0,394	0,394
	EFFBT-25LF	EFFBT-26LF
Structure	1/2"F.Swt. × 3/4"GHT With Nail Flange	3/4"F.Swt. × 3/4"GHT With Nail Flange
Port size	0,394	0,394



EFFBT

	EFFBT-27LF	EFFBT-28LF
Structure	1/2"PEX × 3/4"GHT With Nail Flange	3/4"PEX × 3/4"GHT With Nail Flange
Port size	0,394	0,394
	EFFBT-29LF	EFFBT-30LF
Structure	1/2"F1960 × 3/4"GHT With Nail Flange	3/4"F1960 × 3/4"GHT With Nail Flange
Port size	0,394	0,394



PEX fittings are designed for use in PEX potable water systems and radiant heat applications.

PEX brass fittings for PEX radiant heat and water delivery systems include couplings, elbows and tees.

Maximum service temperature 200°F

Third party certified to NSF-pw Annex G, Complies with ASTM F877, Complies with ASTM F1807, CSA B137.5

Size range 3/8" to 2"

PEX FITTINGS



PEX X PB TRANSITION FITTINGS

Item#	Description
103833-LF	3/8" PEX x PB Coupling w/Crimp Rings
103844-LF	1/2" PEX x PB Coupling w/Crimp Rings
103866-LF	3/4" PEX x PB Coupling w/Crimp Rings
103877-LF	1" PEX x PB Coupling w/Crimp Rings



PEX X MIP ADAPTERS

Item#	Description
104033-LF	3/8" PEX x 3/8" MPT Adapter
104034-LF	3/8" PEX x 1/2" MPT Adapter
104043-LF	1/2" PEX x 3/8" MPT Adapter
104044-LF	1/2" PEX x 1/2" MPT Adapter
104046-LF	1/2" PEX x 3/4" MPT Adapter
104054-LF	5/8" PEX x 1/2" MPT Adapter
104056-LF	5/8" PEX x 3/4" MPT Adapter
104064-LF	3/4" PEX x 1/2" MPT Adapter
104066-LF	3/4" PEX x 3/4" MPT Adapter
104067-LF	3/4" PEX x 1" MPT Adapter
104076-LF	1" PEX x 3/4" MPT Adapter
104077-LF	1" PEX x 1" MPT Adapter
104078-LF	1" PEX x 1-1/4" MPT Adapter
104087-LF	1-1/4" PEX x 1" MPT Adapter
104088-LF	1-1/4" PEX x 1-1/4" MPT Adapter
104089-LF	1-1/4" PEX x 1-1/2" MPT Adapter
104096-LF	1-1/2" PEX x 1-1/4" MPT Adapter
104099-LF	1-1/2" PEX x 1-1/2" MPT Adapter
104090-LF	1-1/2" PEX x 2" MPT Adapter
104009-LF	2" PEX x 1-1/2" MPT Adapter
104000-LF	2" PEX x 2" MPT Adapter





PEX X COPPER SWEAT 90° ELBOWS

Item#	Description
102044-LF	1/2" PEX x 1/2" F Sweat Elbow
102046-LF	1/2" PEX x 3/4" F Sweat Elbow
102056-LF	5/8" PEX x 3/4" F Sweat Elbow
102064-LF	3/4" PEX x 1/2" F Sweat Elbow
102066-LF	3/4" PEX x 3/4" F Sweat Elbow
102076-LF	1" PEX x 3/4" F Sweat Elbow
102077-LF	1" PEX x 1" F Sweat Elbow



90° ELBOWS

Item#	Description
102133-LF	3/8" PEX Elbow
102143-LF	1/2" PEX x 3/8" PEX Elbow
102144-LF	1/2" PEX Elbow
102154-LF	5/8" PEX x 1/2" PEX Elbow
102155-LF	5/8" PEX Elbow
102164-LF	3/4" PEX x 1/2" PEX Elbow
102165-LF	3/4" PEX x 5/8" PEX Elbow
102166-LF	3/4" PEX Elbow
102176-LF	1" PEX x 3/4" PEX Elbow
102177-LF	1" PEX Elbow
102187-LF	1-1/4" PEX x 1" PEX Elbow
102188-LF	1-1/4" PEX Elbow
102198-LF	1-1/2" PEX x 1-1/4" PEX Elbow
102199-LF	1-1/2" PEX x 1-1/2" PEX Elbow
102109-LF	2" PEX x 1-1/2" PEX Elbow
102100-LF	2" PEX x 2" PEX Elbow



PEX X MPT 90° ELBOWS

Item#	Description
102233-LF	3/8" PEX x 3/8" MPT Elbow
102234-LF	3/8" PEX x 1/2" MPT Elbow
102243-LF	1/2" PEX x 3/8" MPT Elbow
102244-LF	1/2" PEX x 1/2" MPT Elbow
102246-LF	1/2" PEX x 3/4" MPT Elbow
102254-LF	5/8" PEX x 1/2" MPT Elbow
102256-LF	5/8" PEX x 3/4" MPT Elbow
102264-LF	3/4" PEX x 1/2" MPT Elbow
102266-LF	3/4" PEX x 3/4" MPT Elbow
102267-LF	3/4" PEX x 1" MPT Elbow
102276-LF	1" PEX x 3/4" MPT Elbow
102277-LF	1" PEX x 1" MPT Elbow



PEX X FPT DROP EAR 90° ELBOWS

Item#	Description
102333-LF	3/8" PEX x 3/8" FPT Drop Ear Elbow
102334-LF	3/8" PEX x 1/2" FPT Drop Ear Elbow
102343-LF	1/2" PEX x 3/8" FPT Drop Ear Elbow
102344-LF	1/2" PEX x 1/2" FPT Drop Ear Elbow
102346-LF	1/2" PEX x 3/4" FPT Drop Ear Elbow
102354-LF	5/8" PEX x 1/2" FPT Drop Ear Elbow
102356-LF	5/8" PEX x 3/4" FPT Drop Ear Elbow
102364-LF	3/4" PEX x 1/2" FPT Drop Ear Elbow
102366-LF	3/4" PEX x 3/4" FPT Drop Elbow



PEX FITTINGS



PEX X FPSM SWIVEL 90° ELBOWS PLASTIC NUT

Item#	Description
102434-LF	3/8" PEX x 1/2" FPSM Elbow W/Plastic Nut & Cone
102444-LF	1/2" PEX x 1/2" FPSM Elbow W/Plastic Nut & Cone



PEX X FPSM SWIVEL 90° ELBOW BRASS NUT

Item#	Description
102544-LF	1/2" PEX x 1/2" FPSM Elbow W/Brass Nut & Cone



PEX X MALE COPPER SWEAT 90° ELBOWS

Item#	Description
102644-LF	1/2" PEX x 1/2" M Sweat Elbow
102646-LF	1/2" PEX x 3/4" M Sweat Elbow
102656-LF	5/8" PEX x 3/4" M Sweat Elbow
102666-LF	3/4" PEX x 3/4" M Sweat Elbow



PEX X OD COMP 90° ELBOWS

Item#	Description
102843-LF	1/2" PEX x 3/8" Comp. Elbow

PEX FITTINGS



PEX X OD COMP STRAIGHT ADAPTERS

Item#	Description
103043-LF	1/2" PEX x 3/8" Comp. Adapter
103045-LF	1/2" PEX x 5/8" Comp. Adapter



COUPLINGS

Item#	Description
103133-LF	3/8" PEX Coupling
103143-LF	1/2" PEX x 3/8" PEX Coupling
103144-LF	1/2" PEX Coupling
103154-LF	5/8" PEX x 1/2" PEX Coupling
103155-LF	5/8" PEX Coupling
103164-LF	3/4" PEX x 1/2" PEX Coupling
103165-LF	3/4" PEX x 5/8" PEX Coupling
103166-LF	3/4" PEX Coupling
103176-LF	1" PEX x 3/4" PEX Coupling
103177-LF	1" PEX Coupling
103187-LF	1-1/4" PEX x 1" PEX Coupling
103188-LF	1-1/4" PEX Coupling
103198-LF	1-1/2" PEX x 1-1/4" PEX Coupling
103199-LF	1-1/2" PEX Coupling
103109-LF	2" PEX x 1-1/2" PEX Coupling
103100-LF	2" PEX Coupling





PEX X MALE COPPER SWEAT ADAPTERS

Item#	Description
103234-LF	3/8" PEX x 1/2" M Sweat Adapter
103243-LF	1/2" PEX x 3/8" M Sweat Adapter
103244-LF	1/2" PEX x 1/2" M Sweat Adapter
103246-LF	1/2" PEX x 3/4" M Sweat Adapter
103256-LF	5/8" PEX x 3/4" M Sweat Adapter
103264-LF	3/4" PEX x 1/2" M Sweat Adapter
103266-LF	3/4" PEX x 3/4" M Sweat Adapter
103267-LF	3/4" PEX x 1" M Sweat Adapter
103276-LF	1" PEX x 3/4" M Sweat Adapter
103277-LF	1" PEX x 1" M Sweat Adapter
103278-LF	1" PEX x 1-1/4" M Sweat Adapter
103287-LF	1-1/4" PEX x 1" M Sweat Adapter
103288-LF	1-1/4" PEX x 1-1/4" M Sweat Adapter
103289-LF	1-1/4" PEX x 1-1/2" M, Swt, Adapter
103298-LF	1-1/2" PEX x 1-1/4" M, Swt, Adapter
103299-LF	1-1/2" PEX x 1-1/2" M, Swt, Adapter
103290-LF	1-1/2" PEX x 2" M, Swt, Adapter
103209-LF	2" PEX x 1-1/2" M, Swt, Adapter
103200-LF	2" PEX x 2" M, Swt, Adapter



PEX X FPSM SWIVEL ADAPTERS PLASTIC NUT

Item#	Description
106134-LF	3/8" PEX x 1/2" FPSM Swivel Adapter w/Plastic Nut & Cone
106144-LF	1/2" PEX x 1/2" FPSM Swivel Adapter w/Plastic Nut & Cone
106146-LF	1/2" PEX x 3/4" FPSM Swivel Adapter w/Plastic Nut & Cone
106166-LF	3/4" PEX x 3/4" FPSM Swivel Adapter w/Plastic Nut & Cone



PEX X FEMALE COPPER SWEAT ADAPTERS

Item#	Description
103334-LF	3/8" PEX x 1/2" F Sweat Adapter
103344-LF	1/2" PEX x 1/2" F Sweat Adapter
103346-LF	1/2" PEX x 3/4" F Sweat Adapter
103354-LF	5/8" PEX x 1/2" F Sweat Adapter
103356-LF	5/8" PEX x 3/4" F Sweat Adapter
103366-LF	3/4" PEX x 3/4" F Sweat Adapter
103367-LF	3/4" PEX x 1" F Sweat Adapter
103376-LF	1" PEX x 3/4" F Sweat Adapter
103377-LF	1" PEX x 1" F Sweat Adapter
103378-LF	1" PEX x 1-1/4" F Sweat Adapter
103387-LF	1-1/4" PEX x 1" F Sweat Adapter
103388-LF	1-1/4" PEX x 1-1/4" F Sweat Adapter
103389-LF	1-1/4" PEX x 1-1/2" F, Swt, Adapter
103398-LF	1-1/2" PEX x 1-1/4" F, Swt, Adapter
103399-LF	1-1/2" PEX x 1-1/2" F, Swt, Adapter
103390-LF	1-1/2" PEX x 2" F, Swt, Adapter
103309-LF	2" PEX x 1-1/2" F, Swt, Adapter
103300-LF	2" PEX x 2" F, Swt, Adapter



PEX X FPSM SWIVEL ADAPTERS BRASS NUT

Item#	Description
105134-LF	3/8" PEX x 1/2" FPSM Swivel Adapter w/Nut & Cone
105144-LF	1/2" PEX x 1/2" FPSM Swivel Adapter w/Nut & Cone
105146-LF	1/2" PEX x 3/4" FPSM Swivel Adapter w/Nut & Cone
105166-LF	3/4" PEX x 3/4" FPSM Swivel Adapter w/Nut & Cone





PEX X FPT BRASS ADAPTERS

Item#	Description
105233-LF	3/8" PEX x 3/8" FPT Adapter
105234-LF	3/8" PEX x 1/2" FPT Adapter
105243-LF	1/2" PEX x 3/8" FPT Adapter
105244-LF	1/2" PEX x 1/2" FPT Adapter
105246-LF	1/2" PEX x 3/4" FPT Adapter
105254-LF	5/8" PEX x 1/2" FPT Adapter
105256-LF	5/8" PEX x 3/4" FPT Adapter
105266-LF	3/4" PEX x 3/4" FPT Adapter
105276-LF	1" PEX x 3/4" FPT Adapter
105277-LF	1" PEX x 1" FPT Adapter
105278-LF	1" PEX x 1-1/4" FPT Adapter
105287-LF	1-1/4" PEX x 1" FPT Adapter
105288-LF	1-1/4" PEX x 1-1/4" FPT Adapter
105200-LF	2"PEX x 2"FPT Adapter
105209-LF	2"PEX x 1-1/2"FPT Adapter
105289-LF	1-1/4"PEX x 1-1/2"FPT Adapter
105290-LF	1-1/2"PEX x 2"FPT Adapter
105298-LF	1-1/2"PEX x 1-1/4"FPT Adapter
105299-LF	1-1/2"PEX x 1-1/2"FPT Adapter



PEX PLUGS

Item#	Description
106003-LF	3/8" PEX Plug
106004-LF	1/2" PEX Plug
106005-LF	5/8" PEX Plug
106006-LF	3/4" PEX Plug
106007-LF	1" PEX Plug
106008-LF	1-1/4" PEX Plug
106009-LF	1-1/2" PEX Plug
106000-LF	2" PEX Plug



PB X PB X PEX BRASS TEES

Item#	Description
108144-LF	1/2" PB x 1/2" PB x 1/2" PEX Tee w/Rings
108164-LF	3/4" PB x 3/4" PB x 1/2" PEX Tee w/Rings
108166-LF	3/4" PB x 3/4" PB x 3/4" PEX Tee w/Rings



PEX X PEX X FPT CROSS TEES

Item#	Description
108344-LF	1/2" PEX x 1/2" PEX x 1/2" FPT Tee
108366-LF	3/4" PEX x 3/4" PEX x 3/4" FPT Tee
108377-LF	1" PEX x 1" PEX x 1" FPT Tee



BRASS PEX TEES

Item#	Description
109333-LF	3/8" PEX Tee
109334-LF	3/8"PEX x 3/8"PEX x 1/2" PEX Tee
109433-LF	1/2"PEX x 3/8"PEX x 3/8" PEX Tee
109434-LF	1/2"PEX x 3/8"PEX x 1/2" PEX Tee
109443-LF	1/2"PEX x 1/2"PEX x 3/8" PEX Tee
109444-LF	1/2" PEX Tee
109445-LF	1/2"PEX x 1/2"PEX x 5/8" PEX Tee
109446-LF	1/2"PEX x 1/2"PEX x 3/4" PEX Tee
109544-LF	5/8"PEX x 1/2"PEX x 1/2" PEX Tee
109545-LF	5/8"PEX x 1/2"PEX x 5/8" PEX Tee
109554-LF	5/8"PEX x 5/8"PEX x 1/2" PEX Tee
109555-LF	5/8"PEX x 5/8"PEX x 5/8" PEX Tee
109556-LF	5/8"PEX x 5/8"PEX x 3/4" PEX Tee
109644-LF	3/4"PEX x 1/2"PEX x 1/2" PEX Tee
109646-LF	3/4"PEX x 1/2"PEX x 3/4" PEX Tee
109655-LF	3/4"PEX x 5/8"PEX x 5/8" PEX Tee
109656-LF	3/4"PEX x 5/8"PEX x 3/4" PEX Tee
109664-LF	3/4"PEX x 3/4"PEX x 1/2" PEX Tee
109665-LF	3/4"PEX x 3/4"PEX x 5/8" PEX Tee
109666-LF	3/4" PEX Tee
109667-LF	3/4"PEX x 3/4"PEX x 1" PEX Tee
109744-LF	1"PEX x 1/2"PEX x 1/2" PEX Tee
109746-LF	1"PEX x 1/2"PEX x 3/4" PEX Tee
109747-LF	1"PEX x 1/2"PEX x 1" PEX Tee
109764-LF	1"PEX x 3/4"PEX x 1/2" PEX Tee
109766-LF	1"PEX x 3/4"PEX x 3/4" PEX Tee



BRASS PEX TEES

Item#	Description
109767-LF	1"PEX x 3/4"PEX x 1" PEX Tee
109774-LF	1"PEX x 1"PEX x 1/2" PEX Tee
109776-LF	1"PEX x 1"PEX x 3/4" PEX Tee
109777-LF	1" PEX Tee
109778-LF	1" PEX x 1" PEX x 1-1/4" PEX Tee
109877-LF	1-1/4" PEX x 1" PEX x 1" PEX Tee
109878-LF	1-1/4" PEX x 1" PEX x 1-1/4" PEX Tee
109886-LF	1-1/4"PEX x 1-1/4"PEX x 3/4"PEX Tee
109887-LF	1-1/4" PEX x 1-1/4" PEX x 1" PEX Tee
109888-LF	1-1/4" PEX x 1-1/4" PEX x 1-1/4" PEX Tee
109889-LF	1-1/4"PEX x 1-1/4"PEX x 1-1/2"PEX Tee
109988-LF	1-1/2"PEX x 1-1/4"PEX x 1-1/4"PEX Tee
109989-LF	1-1/2"PEX x 1-1/4"PEX x 1-1/2"PEX Tee
109996-LF	1-1/2"PEX x 1-1/2"PEX x 3/4"PEX Tee
109997-LF	1-1/2"PEX x 1-1/2"PEX x 1"PEX Tee
109998-LF	1-1/2"PEX x 1-1/2"PEX x 1-1/4"PEX Tee
109999-LF	1-1/2"PEX x 1-1/2"PEX x 1-1/2"PEX Tee
109990-LF	1 1/2"PEX x 1 1/2"PEX x 2"PEX Tee
109088-LF	2"PEX x 1-1/4"PEX x 1-1/4"PEX Tee
109089-LF	2"PEX x 1-1/4"PEX x 1-1/2"PEX Tee
109096-LF	2"PEX x 1-1/2"PEX x 1-1/4"PEX Tee
109099-LF	2"PEX x 1-1/2"PEX x 1-1/2"PEX Tee
109090-LF	2"PEX x 1-1/2"PEX x 2"PEX Tee
109007-LF	2"PEX x 2"PEX x 1"PEX Tee
109008-LF	2"PEX x 2"PEX x 1-1/4"PEX Tee
109009-LF	2"PEX x 2"PEX x 1-1/2"PEX Tee
109000-LF	2"PEX x 2"PEX x 2"PEX Tee





- Meets Requirements of ASTM F1960
- Dezincification Resistant (DZR) Brass Alloy
- Certified to Uniform Plumbing Code TM
- CSAB137.5 Certified
- NSF Certified to NSF/ANSI 61 & 372
- Size Range 1/2" to 1"

COLD EXPANSION PEX FITTING (F1960)



F1960 X FPT DROP EAR 90° ELBOWS (3 EAR)

Part #	Description
402333-LF	3/8" F1960 x 3/8" NPT(F) Drop Ear Brass Elbow with 3 ears
402334-LF	3/8" F1960 x 1/2" NPT(F) Drop Ear Brass Elbow with 3 ears
402343-LF	1/2" F1960 x 3/8" NPT(F) Drop Ear Brass Elbow with 3 ears
402344-LF	1/2" F1960 x 1/2" NPT(F) Drop Ear Brass Elbow with 3 ears
402346-LF	1/2" F1960 x 3/4" NPT(F) Drop Ear Brass Elbow with 3 ears
402354-LF	5/8" F1960 x 1/2" NPT(F) Drop Ear Brass Elbow with 3 ears
402356-LF	5/8" F1960 x 3/4" NPT(F) Drop Ear Brass Elbow with 3 ears
402364-LF	3/4" F1960 x 1/2" NPT(F) Drop Ear Brass Elbow with 3 ears
402366-LF	3/4" F1960 x 3/4" NPT(F) Drop Ear Brass Elbow with 3 ears
402367-LF	3/4" F1960 x 1" NPT(F) Drop Ear Brass Elbow with 3 ears
402377-LF	1" F1960 x 1" NPT(F) Drop Ear Brass Elbow with 3 ears



F1960 90° ELBOWS

Part #	Description
402133-LF	3/8" F1960 Brass Elbow
402143-LF	1/2" F1960 x 3/8" F1960 Brass Elbow
402144-LF	1/2" F1960 Brass Elbow
402154-LF	5/8" F1960 x 1/2" F1960 Brass Elbow
402155-LF	5/8" F1960 Brass Elbow
402164-LF	3/4" F1960 x 1/2" F1960 Brass Elbow
402165-LF	3/4" F1960 x 5/8" F1960 Brass Elbow
402166-LF	3/4" F1960 Brass Elbow
402176-LF	1" F1960 x 3/4" F1960 Brass Elbow
402177-LF	1" F1960 Brass Elbow



COLD EXPANSION PEX FITTING (F1960)



F1960 MALE SWEAT 90° ELBOWS



Part #	Description
402633-LF	3/8" F1960 x 3/8" Male Sweat Brass Elbow
402644-LF	1/2" F1960 x 1/2" Male Sweat Brass Elbow
402646-LF	1/2" F1960 x 3/4" Male Sweat Brass Elbow
402656-LF	5/8" F1960 x 3/4" Male Sweat Brass Elbow
402664-LF	3/4" F1960 x 1/2" Male Sweat Brass Elbow
402666-LF	3/4" F1960 x 3/4" Male Sweat Brass Elbow
402667-LF	3/4" F1960 x 1" Male Sweat Brass Elbow
402676-LF	1" F1960 x 3/4" Male Sweat Brass Elbow
402677-LF	1" F1960 x 1" Male Sweat Brass Elbow



F1960 PLUGS



Part #	Description
406003-LF	3/8" F1960 Brass Plug
406004-LF	1/2" F1960 Brass Plug
406005-LF	5/8" F1960 Brass Plug
406006-LF	3/4" F1960 Brass Plug
406007-LF	1" F1960 Brass Plug



F1960 COUPLINGS



Part #	Description
403133-LF	3/8" F1960 Brass Coupling
403143-LF	1/2" F1960 x 3/8" F1960 Brass Coupling
403144-LF	1/2" F1960 Brass Coupling
403154-LF	5/8" F1960 x 1/2" F1960 Brass Coupling
403155-LF	5/8" F1960 Brass Coupling
403164-LF	3/4" F1960 x 1/2" F1960 Brass Coupling
403165-LF	3/4" F1960 x 5/8" F1960 Brass Coupling
403166-LF	3/4" F1960 Brass Coupling
403174-LF	1" F1960 x 1/2" F1960 Brass Coupling
403175-LF	1" F1960 x 5/8" F1960 Brass Coupling
403176-LF	1" F1960 x 3/4" F1960 Brass Coupling
403177-LF	1" F1960 Brass Coupling

COLD EXPANSION PEX FITTING (F1960)



F1960 X MALE COPPER SWEAT ADAPTERS



Part #	Description
403233-LF	3/8" F1960 x 3/8" Male Sweat Brass Adapter
403234-LF	3/8" F1960 x 1/2" Male Sweat Brass Adapter
403243-LF	1/2" F1960 x 3/8" Male Sweat Brass Adapter
403244-LF	1/2" F1960 x 1/2" Male Sweat Brass Adapter
403246-LF	1/2" F1960 x 3/4" Male Sweat Brass Adapter
403254-LF	5/8" F1960 x 1/2" Male Sweat Brass Adapter
403256-LF	5/8" F1960 x 3/4" Male Sweat Brass Adapter
403264-LF	3/4" F1960 x 1/2" Male Sweat Brass Adapter
403266-LF	3/4" F1960 x 3/4" Male Sweat Brass Adapter
403267-LF	3/4" F1960 x 1" Male Sweat Brass Adapter
403276-LF	1" F1960 x 3/4" Male Sweat Brass Adapter
403277-LF	1" F1960 x 1" Male Sweat Brass Adapter



F1960 X FEMALE COPPER SWEAT ADAPTERS



Part #	Description
403333-LF	3/8" F1960 x 3/8" Female Sweat Brass Adapter
403334-LF	3/8" F1960 x 1/2" Female Sweat Brass Adapter
403344-LF	1/2" F1960 x 1/2" Female Sweat Brass Adapter
403346-LF	1/2" F1960 x 3/4" Female Sweat Brass Adapter
403354-LF	5/8" F1960 x 1/2" Female Sweat Brass Adapter
403356-LF	5/8" F1960 x 3/4" Female Sweat Brass Adapter
403364-LF	3/4" F1960 x 1/2" Female Sweat Brass Adapter
403366-LF	3/4" F1960 x 3/4" Female Sweat Brass Adapter
403367-LF	3/4" F1960 x 1" Female Sweat Brass Adapter
403376-LF	1" F1960 x 3/4" Female Sweat Brass Adapter
403377-LF	1" F1960 x 1" Female Sweat Brass Adapter



F1960 X MPT ADAPTERS



Part #	Description
404033-LF	3/8" F1960 x 3/8" NPT(M) Brass Adapter
404034-LF	3/8" F1960 x 1/2" NPT(M) Brass Adapter
404043-LF	1/2" F1960 x 3/8" NPT(M) Brass Adapter
404044-LF	1/2" F1960 x 1/2" NPT(M) Brass Adapter
404046-LF	1/2" F1960 x 3/4" NPT(M) Brass Adapter
404054-LF	5/8" F1960 x 1/2" NPT(M) Brass Adapter
404056-LF	5/8" F1960 x 3/4" NPT(M) Brass Adapter
404064-LF	3/4" F1960 x 1/2" NPT(M) Brass Adapter
404066-LF	3/4" F1960 x 3/4" NPT(M) Brass Adapter
404067-LF	3/4" F1960 x 1" NPT(M) Brass Adapter
404076-LF	1" F1960 x 3/4" NPT(M) Brass Adapter
404077-LF	1" F1960 x 1" NPT(M) Brass Adapter



F1960 X FPT BRASS ADAPTERS



Part #	Description
405233-LF	3/8" F1960 x 3/8" NPT(F) Brass Non-Swivel Adapter
405234-LF	3/8" F1960 x 1/2" NPT(F) Brass Non-Swivel Adapter
405243-LF	1/2" F1960 x 3/8" NPT(F) Brass Non-Swivel Adapter
405244-LF	1/2" F1960 x 1/2" NPT(F) Brass Non-Swivel Adapter
405246-LF	1/2" F1960 x 3/4" NPT(F) Brass Non-Swivel Adapter
405254-LF	5/8" F1960 x 1/2" NPT(F) Brass Non-Swivel Adapter
405256-LF	5/8" F1960 x 3/4" NPT(F) Brass Non-Swivel Adapter
405264-LF	3/4" F1960 x 1/2" NPT(F) Brass Non-Swivel Adapter
405266-LF	3/4" F1960 x 3/4" NPT(F) Brass Non-Swivel Adapter
405267-LF	3/4" F1960 x 1" NPT(F) Brass Non-Swivel Adapter
405276-LF	1" F1960 x 3/4" NPT(F) Brass Non-Swivel Adapter
405277-LF	1" F1960 x 1" NPT(F) Brass Non-Swivel Adapter



F1960 TEES



Part #	Description
409333-LF	3/8" F1960 Brass Tee
409334-LF	3/8" F1960 x 3/8" F1960 x 1/2" F1960 Brass Tee
409433-LF	1/2" F1960 x 3/8" F1960 x 3/8" F1960 Brass Tee
409434-LF	1/2" F1960 x 3/8" F1960 x 1/2" F1960 Brass Tee
409443-LF	1/2" F1960 x 1/2" F1960 x 3/8" F1960 Brass Tee
409444-LF	1/2" F1960 Brass Tee
409445-LF	1/2" F1960 x 1/2" F1960 x 5/8" F1960 Brass Tee
409446-LF	1/2" F1960 x 1/2" F1960 x 3/4" F1960 Brass Tee
409447-LF	1/2" F1960 x 1/2" F1960 x 1" F1960 Brass Tee
409544-LF	5/8" F1960 x 1/2" F1960 x 1/2" F1960 Brass Tee
409545-LF	5/8" F1960 x 1/2" F1960 x 5/8" F1960 Brass Tee
409554-LF	5/8" F1960 x 5/8" F1960 x 1/2" F1960 Brass Tee
409555-LF	5/8" F1960 Brass Tee
409644-LF	3/4" F1960 x 1/2" F1960 x 1/2" F1960 Brass Tee
409646-LF	3/4" F1960 x 1/2" F1960 x 3/4" F1960 Brass Tee
409664-LF	3/4" F1960 x 3/4" F1960 x 1/2" F1960 Brass Tee
409666-LF	3/4" F1960 Brass Tee
409667-LF	3/4" F1960 x 3/4" F1960 x 1" F1960 Brass Tee
409744-LF	1" F1960 x 1/2" F1960 x 1/2" F1960 Brass Tee
409746-LF	1" F1960 x 1/2" F1960 x 3/4" F1960 Brass Tee
409747-LF	1" F1960 x 1/2" F1960 x 1" F1960 Brass Tee
409764-LF	1" F1960 x 3/4" F1960 x 1/2" F1960 Brass Tee
409766-LF	1" F1960 x 3/4" F1960 x 3/4" F1960 Brass Tee
409767-LF	1" F1960 x 3/4" F1960 x 1" F1960 Brass Tee
409774-LF	1" F1960 x 1" F1960 x 1/2" F1960 Brass Tee
409776-LF	1" F1960 x 1" F1960 x 3/4" F1960 Brass Tee
409777-LF	1" F1960 x 1" F1960 x 1" F1960 Brass Tee



TEES

Item#	Description
39333	3/8" x 3/8" x 3/8" Polyalloy PEX Tee
39444	1/2" x 1/2" x 1/2" Polyalloy PEX Tee
39446	1/2" x 1/2" x 3/4" Polyalloy PEX Tee
39644	3/4" x 1/2" x 1/2" Polyalloy PEX Tee
39646	3/4" x 1/2" x 3/4" Polyalloy PEX Tee
39664	3/4" x 3/4" x 1/2" Polyalloy PEX Tee
39666	3/4" x 3/4" x 3/4" Polyalloy PEX Tee
39667	3/4" x 3/4" x 1" Polyalloy PEX Tee
39766	1" x 3/4" x 3/4" Polyalloy PEX Tee
39767	1" x 3/4" x 1" Polyalloy PEX Tee
39774	1" x 1" x 1/2" Polyalloy PEX Tee
39776	1" x 1" x 3/4" Polyalloy PEX Tee
39777	1" x 1" x 1" Polyalloy PEX Tee



COUPLINGS

Item#	Description
33133	3/8" x 3/8" Polyalloy PEX Coupling
33144	1/2" x 1/2" Polyalloy PEX Coupling
33164	3/4" x 1/2" Polyalloy PEX Coupling
33166	3/4" x 3/4" Polyalloy PEX Coupling
33174	1" x 1/2" Polyalloy PEX Coupling
33176	1" x 3/4" Polyalloy PEX Coupling
33177	1" x 1" Polyalloy PEX Coupling



90° ELBOWS

Item#	Description
32133	3/8" x 3/8" Polyalloy PEX Elbow
32144	1/2" x 1/2" Polyalloy PEX Elbow
32164	3/4" x 1/2" Polyalloy PEX Elbow
32166	3/4" x 3/4" Polyalloy PEX Elbow
32174	1" x 3/4" Polyalloy PEX Elbow
32176	1" x 1" Polyalloy PEX Elbow



PEX X FPSM SWIVEL ADAPTERS

Item#	Description
35144	1/2" PEX x 1/2" FPSM Polyalloy Swivel Adapter
35146	1/2" PEX x 3/4" FPSM Polyalloy Swivel Adapter
35166	3/4" PEX x 3/4" FPSM Polyalloy Swivel Adapter



PEX X FPSM SWIVEL 90° ELBOWS

Item#	Description
32544	1/2" PEX x 1/2" FPSM Polyalloy Swivel Elbow
32546	1/2" PEX x 3/4" FPSM Polyalloy Swivel Elbow
32566	3/4" PEX x 3/4" FPSM Polyalloy Swivel Elbow



PEX X MPT ADAPTERS

Item#	Description
34044	1/2" PEX x 1/2" MPT Polyalloy Adapter
34046	1/2" PEX x 3/4" MPT Polyalloy Adapter
34064	3/4" PEX x 1/2" MPT Polyalloy Adapter
34066	3/4" PEX x 3/4" MPT Polyalloy Adapter
34077	1" PEX x 1" MPT Polyalloy Adapter



PERMANENT PLUGS

Item#	Description
36003	3/8" Polyalloy Permanent Plug
36004	1/2" Polyalloy Permanent Plug
36006	3/4" Polyalloy Permanent Plug
36007	1" Polyalloy Permanent Plug



ABS TEST PLUGS

Item#	Description
35004	1/2" Test Plug
35006	3/4" Test Plug
35007	1" Test Plug



PLASTIC SUPPORT BENDS

Item#	Description
EFF2720	1/2" PEX Tube Bend Support(Plastic)
EFF2721	3/4" PEX Tube Bend Support(Plastic)
EFF2722	1" PEX Tube Bend Support(Plastic)



METAL SUPPORT BENDS

Item#	Description
EFF2730	1/2" PEX Tube Bend Support(Metal)
EFF2731	3/4" PEX Tube Bend Support(Metal)



BEND SUPPORT

Item#	Description
EFF2740	1/2" PEX Tube Bend Support(Metal)

ANNEALED COPPER CRIMP RINGS

Item#	Description
100003	3/8" PEX Annealed Copper Crimp Ring
100004	1/2" PEX Annealed Copper Crimp Ring
100005	5/8" PEX Annealed Copper Crimp Ring
100006	3/4" PEX Annealed Copper Crimp Ring
100007	1" PEX Annealed Copper Crimp Ring
100008	1-1/4" PEX Annealed Copper Crimp Ring



STAINLESS STEEL PINCH CLAMPS

Item#	Description
11003S	3/8" Stainless Steel Pinch Clamp For PEX Pipe
11004S	1/2" Stainless Steel Pinch Clamp For PEX Pipe
11005S	5/8" Stainless Steel Pinch Clamp For PEX Pipe
11006S	3/4" Stainless Steel Pinch Clamp For PEX Pipe
11007S	1" Stainless Steel Pinch Clamp For PEX Pipe



STANDARD PIPE STAYS

Item#	Description
PS-050S	1/2" C x 3/8" IP Standard Pipe Stay
PS-075S	3/4" C x 1/2" IP Standard Pipe Stay
PS-100S	1" C x 3/4" IP Standard Pipe Stay
PS-125S	1-1/4" C x 1" IP Standard Pipe Stay
PS-150S	1-1/2" C x 1-1/4" IP Standard Pipe Stay
PS-175S	1-1/2" IP Standard Pipe Stay
PS-200SC	2" C Standard Pipe Stay
PS-200SIP	2" IP Standard Pipe Stay



EXTENDED PIPE STAYS

Item#	Description
PS-050E	1/2" C x 3/8" IP Extended Pipe Stay
PS-075E	3/4" C x 1/2" IP Extended Pipe Stay
PS-100E	1" C x 3/4" IP Extended Pipe Stay
PS-125E	1-1/4" C x 1" IP Extended Pipe Stay
PS-150E	1-1/2" C x 1-1/4" IP Extended Pipe Stay
PS-175E	1-1/2" IP Extended Pipe Stay
PS-200E	2" IP Extended Pipe Stay



STANDARD DOUBLE PIPE STAYS

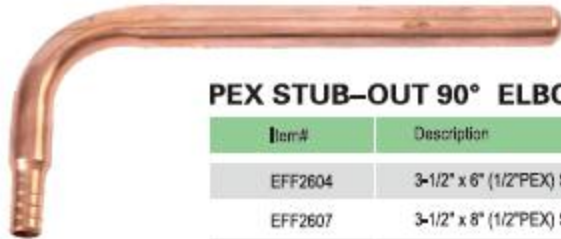
Item#	Description
PSD-050S	1/2" C x 3/8" IP Standard Double Pipe Stay
PSD-075S	3/4" C x 1/2" IP Standard Double Pipe Stay



HEAVY DUTY PINCH CLAMP TOOL

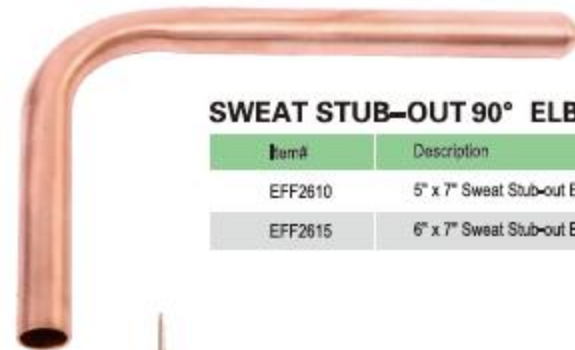
Item#	Description
EFF5075	Heavy Duty Pinch Clamp Tool

STUB-OUT 90° ELBOWS



PEX STUB-OUT 90° ELBOWS

Item#	Description
EFF2604	3-1/2" x 6" (1/2"PEX) Stub-out Elbow
EFF2607	3-1/2" x 8" (1/2"PEX) Stub-out Elbow
EFF2606	4" x 8" (3/4"PEX) Stub-out Elbow



SWEAT STUB-OUT 90° ELBOWS

Item#	Description
EFF2610	5" x 7" Sweat Stub-out Elbow
EFF2615	6" x 7" Sweat Stub-out Elbow



PEX STUB-OUT 90° ELBOWS WITH NAIL FLANGE

Item#	Description
EFF2602	3-1/2" x 6" (1/2"PEX) Stub-out Elbow With Nail Flange
EFF2608	3-1/2" x 8" (1/2"PEX) Stub-out Elbow With Nail Flange
EFF2612	4" x 8" (3/4"PEX) Stub-out Elbow With Nail Flange



SWEAT STUB-OUT 90° ELBOWS WITH NAIL FLANGE

Item#	Description
EFF2609	5" x 7" Sweat Stub-out Elbow With Nail Flange
EFF2611	6" x 7" Sweat Stub-out Elbow With Nail Flange

RETAIL PACKAGING

we create unique and useful packaging for a wide range of items of varying shapes and sizes. Our expertise in properly deciding on the correct style of package, implementing solutions that are "pack-out" friendly and are visually appealing provides our clients with packaging that stands out in the retail environment.

