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MeritPress™
By Merit Brass Co.

COPPER PRESS FITTINGS

Product Catalog

MERIT BRASS
DIRECTING THE FLOW OF *Quality*

Merit Brass Co.
One Merit Dr. • PO Box 43127
Cleveland, OH 44143

MeritPress™ - Copper Press fittings are Merit Brass' solution for professionals choosing to join copper tubes through the use of press technology. Copper press is focused on quality, safety, reliability, and ease of use.

- ½" – 4" including couplings, elbows, tees, adapters, caps, crossovers, reducing couplings, unions, and flange adapters.
  - Copper press valves available in ½" – 2"
- Extensive offering of reducing tees.
- Dual leak detection feature identify uncrimped connections:
  - **Mechanical Leak Before Press (LBP) sealing elements.**
  - **FIRST TO MARKET Visual Indicator Press Ring (VIPR)™** – facilitates immediate identification of unpressed connections as well as application – green = EPDM (water).
- Compatible with most common pressing tools and jaws in the market.
- EPDM (Ethylene Propylene Diene Monomer) seal is factory-installed & lubricated.
- Packaged in common industry quantities.
- Box, bag and ring are color-coded to the sealing element.
- Most comprehensive package with over 350 SKUs.

Visual Indicator Press Ring (VIPR)™

Merit Brass reserves the right to change any portion of the information shown in this product catalog without obligation to change copper press products previously or subsequently sold.

See meritbrass.com for most current information.

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WHY COPPER PRESS FITTINGS?

MeritPress™ - Copper Press is a ½" – 4" copper press fitting system suitable for use with ASTM B88 Type K, L, and M copper tubing in the hard drawn condition and soft copper tubing in sizes ½" – 1¼". Merit Brass stocks 1/4" - 6" Copper tubing in types L, K, & M in 10 & 20 footers.

Press technology has a multi-decade history of successful use in applications including hydronic heating, fire sprinkler systems and the conveyance of fluids, gases, oils, and low pressure steam.

Copper press continues the quest of modern press technology through improved joint design, increased holding power and greater reliability. Furthermore, copper press has patented design improvements coupled with rigorous testing requirements.

We understand that press tool and jaw sets are an expensive investment for the contractors and inventory item for wholesalers. Therefore, we focused on improvements to the seal mechanics, rather than the basic design of the fitting. With our design, copper press fittings are compatible with most tools and jaws on the market, making it easy for the end user.

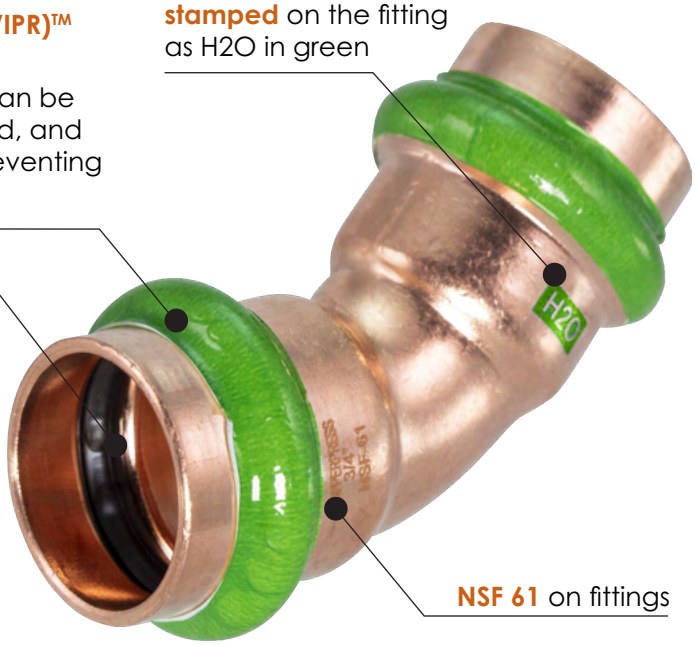
With copper press, we are confident that we have engineered a better, more reliable joint that will withstand higher pressures and will yield significantly improved anti-creep performance.

FEATURES & BENEFITS

50-Year Limited Warranty on Fittings and 5-Year on Valves. Available in Sizes ½" – 4" Copper Tube Size (CTS). Fully Captured Grab Ring on 2½" & above. Visual Indicator Press Ring (VIPR)™ facilitates immediate identification of unpressed connection as well as application.

The first to market Visual Indicator Press Ring (VIPR)™ gives redundancy in identifying unpressed connections. The color-coded plastic sleeve can be easily removed when the connection is pressed, and also indicates the sealing element material preventing costly and potentially unsafe installation errors

Water application stamped on the fitting as H2O in green



Leak Before Press (LBP) System designed to leak before they are pressed, giving a visual indication of a connection that has not been pressed. 1/2" has a 3-Path LBP, ¾" - 2" have a 4-Path LBP System. 2.5" – 4" also have LBP

NSF 61 on fittings

Most Comprehensive Package with over 350 SKUs

Box, bag and VIPR are Color-Coordinated to the Sealing Element

Grab Ring deforms and grips outside diameter of pipe

Engineered sealing elements are designed to leak before they are pressed, giving a visual indication of a connection that has not been pressed

SYSTEM DATA

MeritPress™ - Copper Press Fitting Codes & Standards

- ASME B31.1 Power Piping, B31.3 Process Piping, B31.9 Building Services Piping
- IPC, IMC, IRC, UPC, UMC
- CPC & CMC (California Plumbing and Mechanical Codes)
- City of Los Angeles Plumbing and Mechanical Codes
- Massachusetts Regulation 248 CMR 10.00: Uniform State Plumbing Code
- Massachusetts State Building Code 780 CMR Ninth Edition: Chapter 28

MeritPress™ - Copper Press Fitting Certifications

- ICC-ES LC 1002 Press Connection Fittings for Potable Water Tube and Radiant Heating Systems
- IAPMO/ANSI/CAN Z1117 Press Connections
- NSF/ANSI/CAN 61 Drinking Water System Components – Health Effects
- NSF/ANSI/CAN 372 Drinking Water System Components – Lead Content

MeritPress™ - Copper Press Fitting Pressures & Temperatures

- **Temperature Range:** 0°F to 250°F
- **Operating Pressure:** 300 psi.

MeritPress™ - Copper Press Ball Valve Certifications

- ICC-ES LC 1002 Press Connection Fittings for Potable Water Tube and Radiant Heating Systems
- IAPMO/ANSI/CAN Z1157 Ball Valves
- NSF/ANSI/CAN 61 Drinking Water System Components – Health Effects
- NSF/ANSI/CAN 372 Drinking Water System Components – Lead Content

TOOLING REFERENCE GUIDE

Copper Press Tools, Kits, Jaws and Rings							
Size	**Milwaukee Part #**	**Tooling Name**	**Adapter**	**Ridgid Part #**	**Tooling Name**	**Adapter**	**Profile**
0.5" - 4"	2773-20	M18 Force Logic Press Tool		67063	RP 350 Press Tool		
0.5" - 2"	2773-22	M18 Force Logic Press Tool w/Jaws (0.5" - 2")		67053	RP 350 Press Tool w/Jaws (0.5" - 2")		
0.5"	49-16-2650	0.5" M18 Jaw		76652	0.5" Press Jaw		CTS - V
0.75"	49-16-2651	0.75" M18 Jaw		76657	0.75" Press Jaw		CTS - V
1"	49-16-2652	1" M18 Jaw		76662	1" Press Jaw		CTS - V
1.25"	49-16-2653	1.25" M18 Jaw		76667	1.25" Press Jaw		CTS - V
1.5"	49-16-2654	1.5" M18 Jaw		76672	1.5" Press Jaw		CTS - V
2"	49-16-2655	2" M18 Jaw		76677	2" Press Jaw		CTS - V
2.5"	49-16-2656	2.5" M18 Ring	49-16-2659	20543	2.5" Press Ring	21878	CTS - Grab Ring
3"	49-16-2657	3" M18 Ring	49-16-2659	20548	3" Press Ring	21878	CTS - Grab Ring
4"	49-16-2658	4" M18 Ring	49-16-2659	20553	4" Press Ring	21878	CTS - Grab Ring
2.5" - 4"	49-16-2659	Ring Jaw 1		21878	V2 Press Ring Actuator		
2.5" - 4"	49-16-2690	M18 Press Ring Kit (2.5" - 4")		20483	2.5" - 4" Press Rings and V2 Actuator		

MeritPress™ - Copper Press fittings & valves by Merit Brass Co. can be used with Milwaukee, REMS, Ridgid, and Rothenberger tools with the asso-ciated Jaws for K, L, and M Copper Tube. Please contact Merit Brass Co. for additional information.

APPROVED APPLICATIONS

All tubing must comply with the ASTM B88 standard. Approved for installations in above and below ground applications as allowed by local code.

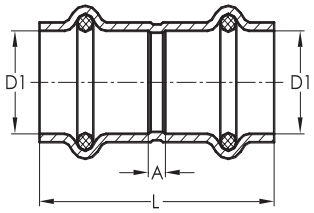
Types Of Service		System Operating Conditions			Copper Press Seal
		Notes	Pressure	Temperature	EPDM
FLUIDS/ WATER	Chilled Water	Ethylene Glycol/Propylene Glycol	300 psi	32°F - 250°F	✓
	Cooling Water	Up to 50% Ethylene Glycol or Propolene Glycol Solution	300 psi	32°F - 250°F	✓
	Hot & Cold Potable Watecr		300 psi	32°F - 250°F	✓
	Hydronic Heating	Ethylene Glycol/Propylene Glycol	300 psi	32°F - 250°F	✓
	Low-Pressure Steam		Up to 15 psi	248°F	✓
	Rainwater/Gray Water		300 psi	32°F - 250°F	✓
FUEL, OIL & LUBRICANT	Ethanol	Pure Grain Alcohol	300 psi	32°F - 250°F	✓
GAS	Argon	Welding Use	300 psi	Ambient	✓
	Carbon Dioxide - CO2	Dry	300 psi	32°F - 250°F	✓
	Compressed Air	Less Than 25mg/m3 Oil Content	300 psi	32°F - 250°F	✓
	Hydrogen - H2		125 psi	0°F - 250°F	✓
	Nitrogen - N2		300 psi	32°F - 250°F	✓
	Oxygen - O2 (Non-Med)	Keep Oil and Fat Free/Non-Liquid O2	140 psi	Up to 140°F	✓
	Vacuum		29.2 in Hg	Call	✓

*Contact Merit Brass for information regarding specific applications

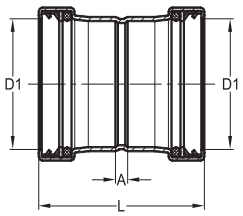
SEALING ELEMENT

EPDM SEALING ELEMENT		
EPDM	Ethylene-propylene-diene monomer	
Color	Black	
Temperature	0°F to 250°F	
Common Applications	Potable Water	
	Hydronic Heating (W/ Glycol)	
	Chilled Water	
Manufacturing Process	Synthetically manufactured & peroxide-cured	
Benefits of Sealing Element	Excellent oxidation resistance	

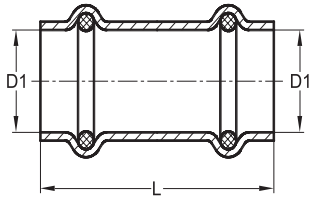
DIMENSIONAL DATA



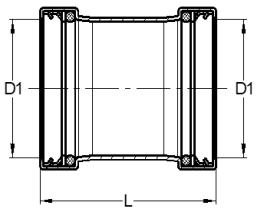
Coupling with Stop			P x P
Item Number EPDM	D1 (in)	L (in)	A (in)
MB12230	½"	1.61	0.12
MB12240	¾"	2.05	0.16
MB12250	1"	2.05	0.16
MB12260	1¼"	2.44	0.16
MB12270	1½"	3.03	0.16
MB12280	2"	3.35	0.16



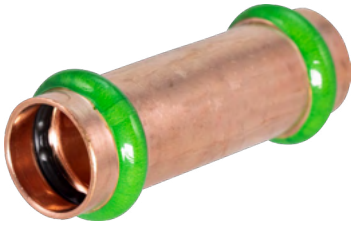
XL Coupling with Stop			P x P
Item Number EPDM	D1 (in)	L (in)	A (in)
MB22230	2½"	3.86	0.39
MB22240	3"	4.37	0.35
MB22250	4"	5.20	0.39

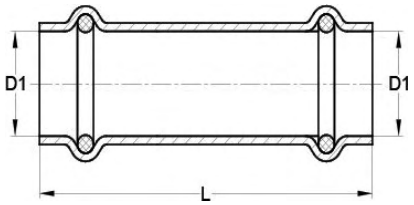


Coupling w/o Stop		P x P
Item Number EPDM	D1 (in)	L (in)
MB12290	½"	1.69
MB12300	¾"	2.05
MB12310	1"	2.05
MB12320	1¼"	2.44
MB12330	1½"	3.03
MB12340	2"	3.35

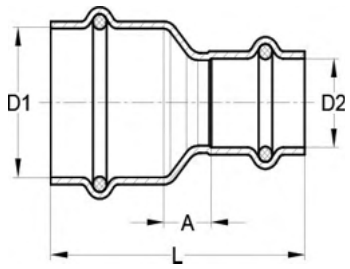


XL Coupling w/o Stop		P x P
Item Number EPDM	D1 (in)	L (in)
MB22260	2½"	3.86
MB22270	3"	4.37
MB22280	4"	5.20

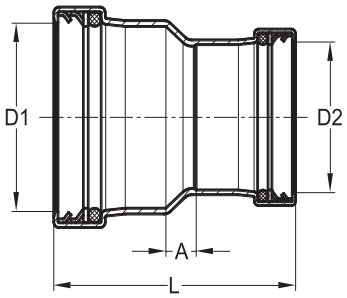




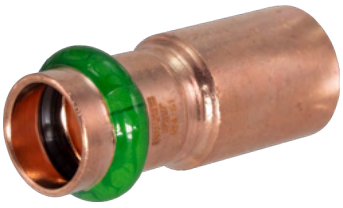
Extended Coupling w/o Stop		P x P
Item Number EPDM	D1 (in)	L (in)
MB12350	½"	2.99
MB12360	¾"	3.50
MB12370	1"	3.74
MB12380	1¼"	4.13
MB12390	1½"	4.72
MB12400	2"	5.31

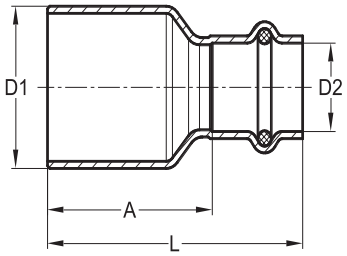


Reducing Coupling				P x P
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB12410	¾"	½"	2.11	0.35
MB12420	1"	½"	2.26	0.51
MB12430	1"	¾"	2.24	0.35
MB12435	1¼"	½"	2.68	0.73
MB12440	1¼"	¾"	2.66	0.57
MB12450	1¼"	1"	2.50	0.41
MB12455	1½"	½"	3.27	0.93
MB12460	1½"	¾"	3.23	0.83
MB12470	1½"	1"	3.03	0.63
MB12480	1½"	1¼"	3.07	0.47
MB12485	2"	½"	3.86	1.36
MB12490	2"	¾"	3.76	1.20
MB12500	2"	1"	3.54	0.98
MB12510	2"	1¼"	3.58	0.83
MB12520	2"	1½"	3.76	0.69

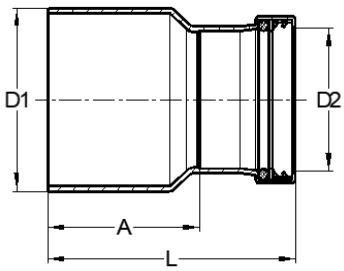


XL Reducing Coupling				P x P
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB22290	2½"	1"	4.07	1.40
MB22300	2½"	1¼"	3.90	1.02
MB22310	2½"	1½"	4.17	0.98
MB22320	2½"	2"	3.98	0.63
MB22330	3"	1¼"	4.76	1.61
MB22340	3"	1½"	4.76	1.30
MB22350	3"	2"	4.65	1.02
MB22360	3"	2½"	4.29	0.55
MB22370	4"	2"	5.98	1.97
MB22380	4"	2½"	5.47	1.34
MB22390	4"	3"	5.24	0.83

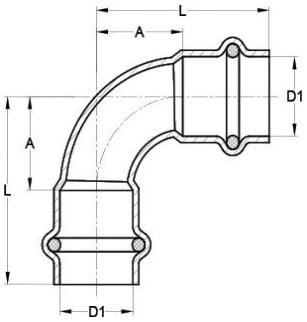




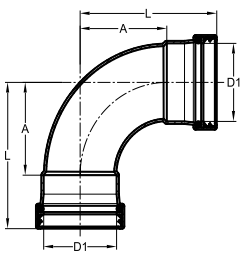
Bushing Reducer				FTG x P
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB12530	¾"	½"	2.15	1.34
MB12540	1"	½"	2.32	1.52
MB12550	1"	¾"	2.24	1.30
MB12560	1¼"	½"	2.64	1.83
MB12570	1¼"	¾"	2.64	1.69
MB12580	1¼"	1"	2.52	1.57
MB12585	1½"	½"	3.03	2.22
MB12590	1½"	¾"	3.11	2.17
MB12600	1½"	1"	2.95	2.01
MB12610	1½"	1¼"	3.03	1.89
MB12613	2"	½"	3.66	2.85
MB12617	2"	¾"	3.74	2.80
MB12620	2"	1"	3.54	2.60
MB12630	2"	1¼"	3.58	2.44
MB12640	2"	1½"	3.70	2.24



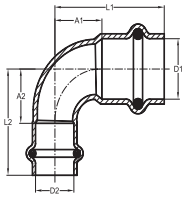
XL Bushing Reducer				FTG x P
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB22400	2½"	1"	4.25	3.31
MB22410	2½"	1¼"	4.06	2.91
MB22420	2½"	1½"	4.29	2.83
MB22430	2½"	2"	4.25	2.64
MB22440	3"	1¼"	4.53	3.39
MB22450	3"	1½"	4.92	3.46
MB22460	3"	2"	4.80	3.19
MB22470	3"	2½"	4.53	2.80
MB22480	4"	2"	6.18	4.57
MB22490	4"	2½"	5.79	4.06
MB22500	4"	3"	5.71	3.70



90° Elbow				P x P
Item Number EPDM	D1 (in)	L (in)	A (in)	
MB11230	½"	1.56	0.75	
MB11240	¾"	1.97	1.02	
MB11250	1"	2.24	1.30	
MB11260	1¼"	2.64	1.50	
MB11270	1½"	3.23	1.77	
MB11280	2"	3.98	2.36	

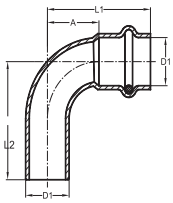


XL 90° Elbow				P x P
Item Number EPDM	D1 (in)	L (in)	A (in)	
MB22110	2½"	4.84	3.11	
MB22120	3"	5.71	3.70	
MB22130	4"	7.17	4.76	



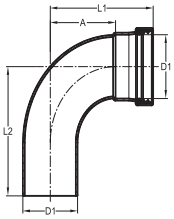
90° Reducing Elbow — P x P

Item Number EPDM	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
MB24560	¾"	½"	1.83	0.89	1.69	0.89
MB24570	1"	¾"	2.30	1.36	2.01	1.06



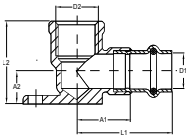
90° Street Elbow — FTG x P

Item Number EPDM	D1 (in)	L1 (in)	A (in)	L2 (in)
MB11350	½"	1.56	0.75	1.73
MB11360	¾"	2.03	1.08	2.13
MB11370	1"	2.24	1.30	2.36
MB11380	1¼"	2.64	1.50	2.93
MB11390	1½"	3.23	1.77	3.54
MB11400	2"	3.98	2.17	4.29



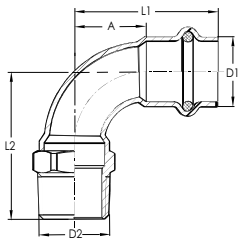
XL 90° Street Elbow — FTG x P

Item Number EPDM	D1 (in)	L1 (in)	A (in)	L2 (in)
MB22140	2½"	4.69	2.95	5.16
MB22150	3"	5.55	3.54	6.06
MB22160	4"	7.17	4.76	7.64

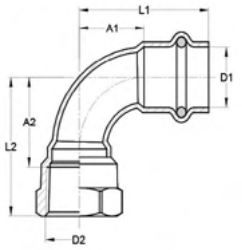


90° Drop Ear Elbow — FTG x P

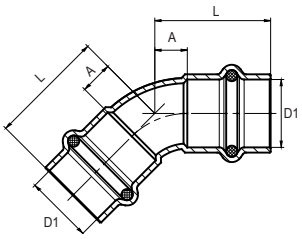
Item Number EPDM	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
MB24590	½"	⅜" FPT	1.77	0.94	1.36	0.59
MB24600	½"	½" FPT	1.77	0.94	1.77	0.94
MB24610	¾"	¾" FPT	2.13	1.18	2.13	1.18



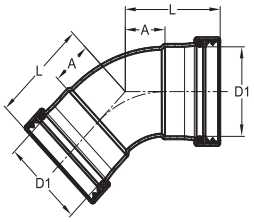
90° Male Elbow					FTG x P
Item Number EPDM	D1 (in)	D2 (in)	L1 (in)	A (in)	L2 (in)
MB47990	½"	½" MPT	1.56	0.75	1.87
MB48000	½"	¾" MPT	2.01	1.20	2.01
MB48010	¾"	½" MPT	2.15	1.20	2.15
MB48012	¾"	¾" MPT	2.03	1.09	2.11
MB48015	1"	1" MPT	2.24	1.28	2.76
MB48020	1¼"	1¼" MPT	2.64	1.50	2.64
MB48030	1½"	1½" MPT	3.23	1.77	3.23
MB48040	2"	2" MPT	4.25	2.64	4.25



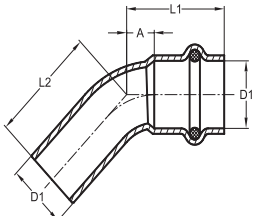
90° Female Elbow						P x FPT
Item Number EPDM	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
MB49000	½"	⅜" FPT	1.56	0.75	1.46	1.02
MB49010	½"	½" FPT	1.73	0.93	1.81	1.30
MB49020	½"	¾" FPT	1.73	0.93	1.93	1.34
MB49030	¾"	½" FPT	2.03	1.08	1.97	1.46
MB49040	¾"	¾" FPT	2.03	1.08	2.09	1.50
MB49050	1"	½" FPT	2.24	1.30	2.22	1.71
MB49060	1"	1" FPT	2.24	1.30	2.52	1.85
MB49070	1¼"	1¼" FPT	2.64	1.50	3.01	2.22
MB49080	1½"	1½" FPT	3.23	1.77	3.27	2.48
MB49090	2"	2" FPT	3.98	2.36	4.21	3.27



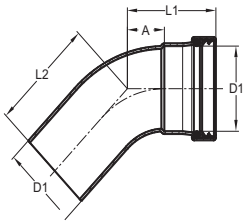
45° Elbow			P x P
Item Number EPDM	D1 (in)	L (in)	A (in)
MB11470	½"	1.10	0.30
MB11480	¾"	1.40	0.45
MB11490	1"	1.42	0.47
MB11500	1¼"	1.97	0.83
MB11510	1½"	2.30	0.85
MB11520	2"	2.44	0.83



XL 45° Elbow			P x P
Item Number EPDM	D1 (in)	L (in)	A (in)
MB22170	2½"	3.15	1.42
MB22180	3"	3.70	1.69
MB22190	4"	4.80	2.40

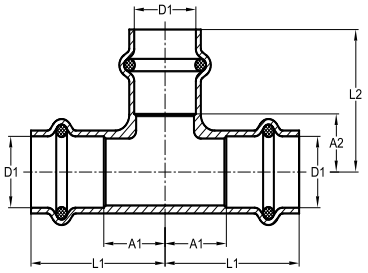


45° Street Elbow				P x P
Item Number EPDM	D1 (in)	L (in)	A (in)	L2 (in)
MB11590	½"	1.10	0.30	1.22
MB11600	¾"	1.40	0.45	1.46
MB11610	1"	1.52	0.57	1.57
MB11620	1¼"	1.97	0.83	1.94
MB11630	1½"	2.30	0.85	2.36
MB11640	2"	2.44	0.83	2.76

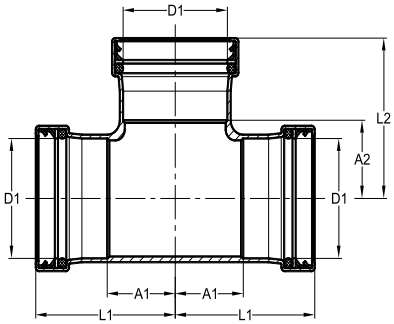


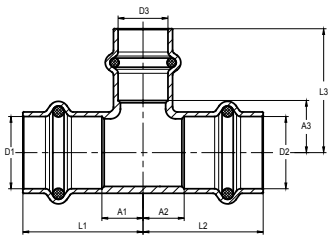
XL 45° Street Elbow				P x P
Item Number EPDM	D1 (in)	L (in)	A (in)	L2 (in)
MB22200	2½"	3.15	1.42	3.39
MB22210	3"	3.70	1.69	3.98
MB22220	4"	4.80	2.40	5.08

Equal Tee					P x P x P
Item Number EPDM	D1 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
MB14110	½"	1.56	0.75	1.28	0.47
MB14140	¾"	1.79	0.85	1.59	0.65
MB14190	1"	1.91	0.96	1.73	0.79
MB14280	1¼"	2.13	0.98	1.97	0.83
MB14400	1½"	2.62	1.16	2.76	1.30
MB14510	2"	2.99	1.38	3.15	1.54



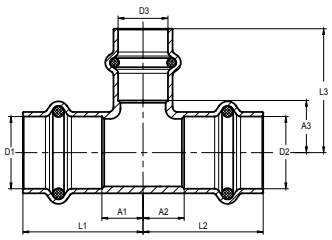
XL Equal Tee					P x P x P
Item Number EPDM	D1 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
MB24255	2½"	3.56	1.83	3.66	1.93
MB24440	3"	4.11	2.11	4.33	2.32
MB24550	4"	5.00	2.60	5.12	2.72





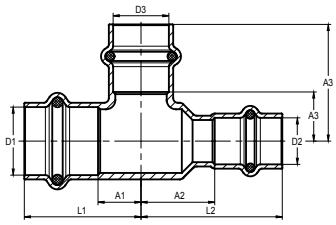
Unequal Tee — P x P x P

Item Number EPDM	D1 (in)	D2 (in)	D3 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)	L3 (in)	A3 (in)
MB14120	½"	½"	¾"	1.71	0.91	1.71	0.91	1.54	0.59
MB14130	½"	½"	1"	2.22	1.42	2.22	1.42	1.73	0.79
MB14150	¾"	½"	½"	1.63	0.69	1.75	0.95	1.44	0.63
MB14160	¾"	½"	¾"	1.79	0.85	1.87	1.06	1.59	0.65
MB14170	¾"	¾"	½"	1.63	0.69	1.63	0.69	1.44	0.63
MB14180	¾"	¾"	1"	1.91	0.97	1.91	0.97	2.03	1.08
MB14195	1"	½"	½"	1.63	0.69	2.01	1.20	1.59	0.79
MB14200	1"	½"	¾"	1.79	0.85	2.13	1.32	1.73	0.79
MB14210	1"	½"	1"	1.91	0.97	2.22	1.42	1.73	0.79
MB14220	1"	¾"	½"	1.63	0.69	1.91	0.96	1.59	0.79
MB14230	1"	¾"	¾"	1.63	0.69	1.63	0.69	1.59	0.79
MB14240	1"	¾"	1"	1.79	0.85	1.79	0.85	1.73	0.79
MB14250	1"	1"	½"	1.79	0.85	2.01	1.06	1.73	0.79
MB14260	1"	1"	¾"	1.91	0.96	2.17	1.22	1.73	0.79
MB14270	1"	1"	1¼"	1.93	0.98	1.93	0.98	2.32	1.18
MB14290	1¼"	½"	1¼"	2.13	0.98	2.62	1.81	1.91	0.83
MB14300	1¼"	¾"	½"	1.77	0.63	2.19	1.24	1.93	1.12
MB14310	1¼"	¾"	¾"	1.87	0.73	2.28	1.34	1.97	1.02
MB14320	1¼"	¾"	1"	1.99	0.85	2.38	1.44	2.05	1.10
MB14330	1¼"	¾"	1¼"	2.13	0.98	2.44	1.50	1.97	0.83
MB14340	1¼"	1"	½"	1.77	0.63	2.09	1.14	1.93	1.12
MB14350	1¼"	1"	¾"	1.87	0.73	2.11	1.16	1.97	1.02
MB14360	1¼"	1"	1"	1.99	0.85	2.22	1.28	2.05	1.10
MB14365	1¼"	1"	1¼"	2.13	0.98	2.24	1.30	1.97	0.83
MB14370	1¼"	1¼"	½"	1.77	0.63	1.77	0.63	1.93	1.12
MB14380	1¼"	1¼"	¾"	1.87	0.73	1.87	0.73	1.97	1.02
MB14390	1¼"	1¼"	1"	1.99	0.85	1.99	0.85	2.05	1.10

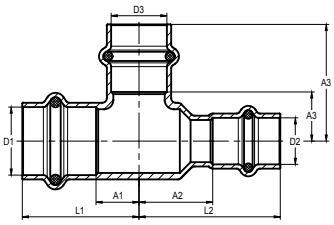


Unequal Tee (continued) — P x P x P

Item Number EPDM	D1 (in)	D2 (in)	D3 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)	L3 (in)	A3 (in)
MB14395	1½"	½"	1½"	2.61	1.16	2.91	2.11	2.76	1.30
MB14410	1½"	1"	¾"	2.13	0.67	2.36	1.42	2.09	1.14
MB14420	1½"	1"	1"	2.26	0.81	2.38	1.44	2.09	1.14
MB14430	1½"	1"	1½"	2.62	1.16	2.70	1.75	1.91	1.10
MB14435	1½"	1¼"	½"	1.93	0.47	2.15	1.00	1.91	1.10
MB14440	1½"	1¼"	¾"	2.13	0.67	2.28	1.14	2.09	1.14
MB14450	1½"	1¼"	1"	2.26	0.81	2.34	1.20	2.09	1.14
MB14460	1½"	1¼"	1¼"	2.38	0.93	2.54	1.40	2.24	1.10
MB14465	1½"	1¼"	1½"	2.62	1.16	2.78	1.63	2.76	1.30
MB14470	1½"	1½"	½"	1.93	0.47	1.93	0.47	1.91	1.10
MB14480	1½"	1½"	¾"	2.13	0.67	2.13	0.67	2.09	1.14
MB14490	1½"	1½"	1"	2.26	0.81	2.26	0.81	2.09	1.14
MB14500	1½"	1½"	1¼"	2.38	0.93	2.38	0.93	2.24	1.10
MB14515	2"	1"	1"	2.66	1.04	2.62	1.67	2.44	1.50
MB14520	2"	1¼"	1¼"	2.66	1.04	2.89	1.75	2.60	1.46
MB14530	2"	1½"	¾"	2.42	0.81	2.85	1.40	2.40	1.46
MB14540	2"	1½"	1"	2.54	0.93	2.93	1.48	2.44	1.50
MB14550	2"	1½"	1¼"	2.66	1.04	3.09	1.63	2.60	1.46
MB14560	2"	1½"	1½"	2.78	1.16	3.25	1.79	2.99	1.54
MB14570	2"	1½"	2"	2.99	1.38	3.43	1.97	3.15	1.54
MB14580	2"	2"	½"	2.42	0.81	2.42	0.81	2.52	1.71
MB14590	2"	2"	¾"	2.42	0.81	2.42	0.81	2.40	1.46
MB14600	2"	2"	1"	2.54	0.93	2.54	0.93	2.44	1.50
MB14610	2"	2"	1¼"	2.66	1.04	2.66	1.04	2.60	1.46
MB14620	2"	2"	1½"	2.78	1.16	2.78	1.16	2.99	1.54

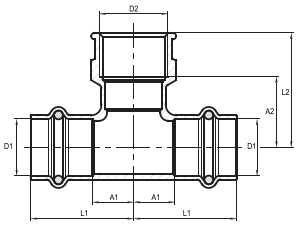


XL Unequal Tee									P x P x P
Item Number EPDM	D1 (in)	D2 (in)	D3 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)	L3 (in)	A3 (in)
MB24110	2½"	¾"	2½"	3.56	1.83	4.17	3.23	3.66	1.93
MB24120	2½"	1"	2½"	3.56	1.83	4.19	3.25	3.60	1.87
MB24130	2½"	1¼"	2½"	3.56	1.83	4.35	3.21	3.60	1.87
MB24140	2½"	1½"	2½"	3.56	1.83	4.61	3.15	3.60	1.87
MB24150	2½"	2"	¾"	3.25	1.52	3.72	2.11	3.74	2.80
MB24160	2½"	2"	1"	3.25	1.52	3.72	2.11	3.54	2.60
MB24165	2½"	2"	1¼"	3.25	1.52	3.72	2.11	3.58	2.44
MB24170	2½"	2"	1½"	3.25	1.52	3.72	2.11	3.74	2.28
MB24180	2½"	2"	2"	3.25	1.52	3.72	2.11	3.43	1.81
MB24190	2½"	2"	2½"	3.56	1.83	3.56	1.95	3.66	1.93
MB24200	2½"	2½"	½"	3.25	1.52	3.25	1.52	3.66	2.85
MB24210	2½"	2½"	¾"	3.25	1.52	3.25	1.52	3.70	2.76
MB24220	2½"	2½"	1"	3.25	1.52	3.25	1.52	3.58	2.64
MB24230	2½"	2½"	1¼"	3.25	1.52	3.25	1.52	3.58	2.44
MB24240	2½"	2½"	1½"	3.25	1.52	3.25	1.52	3.74	2.28
MB24250	2½"	2½"	2"	3.25	1.52	3.25	1.52	3.43	1.81
MB24270	3"	¾"	3"	4.11	2.11	5.10	4.15	4.31	2.30
MB24280	3"	1"	3"	4.11	2.11	4.92	3.98	4.31	2.30
MB24290	3"	1¼"	3"	4.11	2.11	5.02	3.88	4.31	2.30
MB24300	3"	1½"	3"	4.11	2.11	5.10	3.64	4.31	2.30
MB24310	3"	2"	2"	3.64	1.63	4.35	2.74	3.76	2.15
MB24320	3"	2"	2½"	3.98	1.97	4.69	3.07	4.00	2.26
MB24330	3"	2"	3"	4.11	2.11	4.55	2.93	4.31	2.30
MB24340	3"	2½"	2"	3.64	1.63	4.15	2.42	3.76	2.15
MB24350	3"	2½"	2½"	3.98	1.97	4.49	2.76	4.00	2.26
MB24360	3"	2½"	3"	4.11	2.11	4.74	3.01	4.31	2.30
MB24370	3"	3"	½"	3.64	1.63	3.64	1.63	4.07	3.27

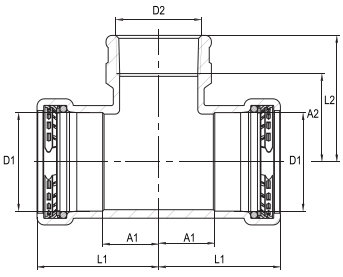


XL Unequal Tee (continued) — P x P x P

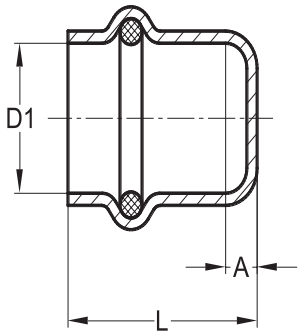
Item Number EPDM	D1 (in)	D2 (in)	D3 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)	L3 (in)	A3 (in)
MB24380	3"	3"	¾"	3.64	1.63	3.64	1.63	4.15	3.21
MB24390	3"	3"	1"	3.64	1.63	3.64	1.63	3.96	3.01
MB24400	3"	3"	1¼"	3.64	1.63	3.64	1.63	4.07	2.93
MB24410	3"	3"	1½"	3.64	1.63	3.64	1.63	4.31	2.85
MB24420	3"	3"	2"	3.64	1.63	3.64	1.63	3.76	2.15
MB24430	3"	3"	2½"	3.98	1.97	3.98	1.97	4.00	2.26
MB24450	4"	3"	2"	4.02	1.61	4.80	2.80	3.25	1.63
MB24460	4"	3"	3"	4.51	2.11	4.82	2.81	4.63	2.62
MB24470	4"	4"	½"	4.02	1.61	4.02	1.61	4.63	3.82
MB24480	4"	4"	¾"	4.02	1.61	4.02	1.61	4.59	3.64
MB24490	4"	4"	1"	4.02	1.61	4.02	1.61	4.43	3.48
MB24500	4"	4"	1¼"	4.02	1.61	4.02	1.61	4.43	3.29
MB24510	4"	4"	1½"	4.02	1.61	4.02	1.61	4.59	3.13
MB24520	4"	4"	2"	4.02	1.61	4.02	1.61	4.23	2.62
MB24530	4"	4"	2½"	4.17	1.77	4.17	1.77	4.47	2.74
MB24540	4"	4"	3"	4.51	2.11	4.51	2.11	4.59	2.58



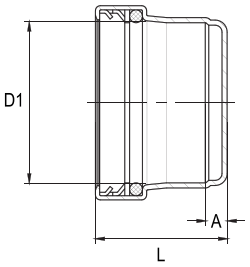
Reducing Tee (P x FPT)						P x P x FPT
Item Number EPDM	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
MB40000	½"	½" FPT	1.56	0.75	1.44	0.89
MB40010	¾"	¼" FPT	1.63	0.69	1.34	0.93
MB40020	¾"	½" FPT	1.79	0.85	1.38	0.83
MB40030	¾"	¾" FPT	1.79	0.85	1.61	0.98
MB40040	1"	½" FPT	1.63	0.69	1.71	1.16
MB40050	1"	¾" FPT	1.91	0.96	1.85	1.22
MB40060	1¼"	½" FPT	1.87	0.73	1.67	1.12
MB40070	1¼"	¾" FPT	1.99	0.85	1.81	1.18
MB40080	1½"	½" FPT	2.13	0.67	1.83	1.28
MB40100	1½"	¾" FPT	2.26	0.81	1.97	1.34
MB40110	2"	½" FPT	2.54	0.93	2.09	1.54
MB40120	2"	¾" FPT	2.54	0.93	2.30	1.67



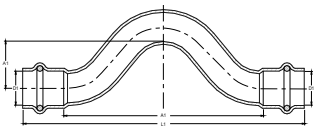
XL Reducing Tee (P x FPT)						P x P x FPT
Item Number EPDM	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
MB42000	2½"	¾" FPT	3.25	1.52	3.50	2.87
MB42010	2½"	2" FPT	3.25	1.52	3.43	2.48
MB42030	3"	¾" FPT	3.64	1.63	4.02	3.39
MB42040	3"	2" FPT	3.64	1.63	3.58	2.64
MB42050	4"	¾" FPT	4.02	1.61	3.90	3.27
MB42060	4"	2" FPT	4.02	1.61	3.70	2.76



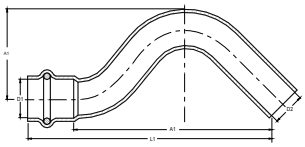
Cap			P
Item Number EPDM	D1 (in)	L (in)	A (in)
MB13110	½"	0.94	0.14
MB13120	¾"	1.06	0.12
MB13140	1"	1.06	0.12
MB13150	1¼"	1.26	0.12
MB13160	1½"	1.69	0.24
MB13170	2"	1.85	0.24



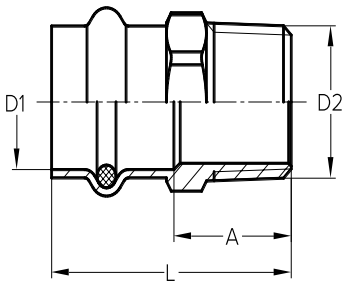
XL Cap			P
Item Number EPDM	D1 (in)	L (in)	A (in)
MB23110	2½"	2.17	0.43
MB23120	3"	2.44	0.43
MB23130	4"	2.87	0.47



Crossover				P x P
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB23140	½"	5.20	3.58	0.77
MB23150	¾"	6.34	4.45	0.91

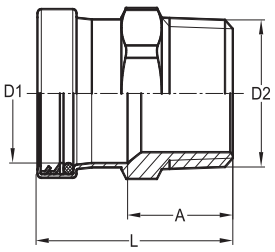


Street Crossover				P x P
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB23160	½"	4.61	3.80	1.10
MB23170	¾"	5.55	4.61	1.54



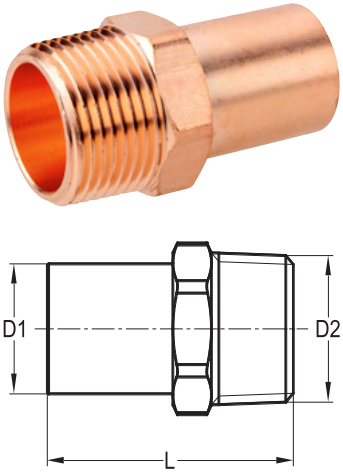
Male Adapter — P x MPT

Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB23250	½"	⅜" MPT	1.65	0.85
MB23260	½"	½" MPT	1.69	0.89
MB23270	½"	¾" MPT	1.77	0.96
MB23280	¾"	½" MPT	2.05	1.10
MB23290	¾"	¾" MPT	1.89	0.94
MB23300	¾"	1" MPT	2.05	1.10
MB23310	1"	½" MPT	2.13	1.18
MB23320	1"	¾" MPT	1.93	0.98
MB23330	1"	1" MPT	1.93	1.22
MB23340	1"	1¼" MPT	2.09	1.14
MB23350	1¼"	1" MPT	2.20	1.06
MB23360	1¼"	1¼" MPT	2.20	1.06
MB23370	1¼"	1½" MPT	2.28	1.14
MB23380	1½"	1¼" MPT	2.70	1.24
MB23390	1½"	1½" MPT	2.64	1.18
MB23400	1½"	2" MPT	2.64	1.18
MB23410	2"	1½" MPT	2.83	1.22
MB23420	2"	2" MPT	2.80	1.46



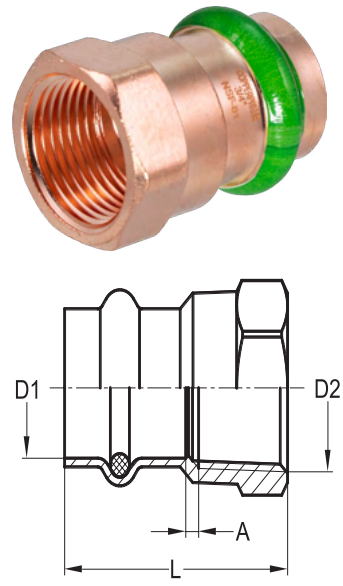
XL Male Adapter — P x MPT

Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB22510	2½"	2½" MPT	3.78	2.05
MB22520	3"	3" MPT	4.09	2.09
MB22530	4"	4" MPT	4.69	2.28



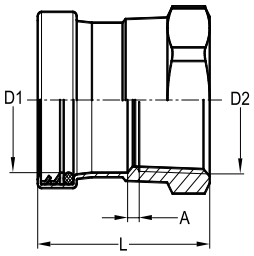
Male Street Adapter — FTG x MPT

Item Number EPDM	D1 (in)	D2 (in)	L (in)
MB22900	½"	⅜" MPT	1.69
MB22910	½"	½" MPT	1.77
MB22920	½"	¾" MPT	1.93
MB22930	¾"	½" MPT	1.93
MB22940	¾"	¾" MPT	1.97
MB22950	1"	¾" MPT	1.97
MB22960	1"	1" MPT	2.13
MB22970	1¼"	1¼" MPT	2.48
MB22980	1½"	1½" MPT	2.87
MB22990	2"	2" MPT	3.19

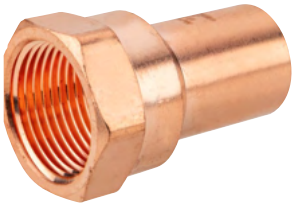


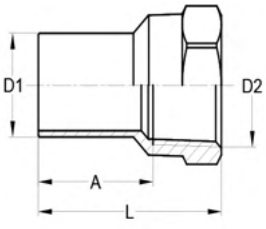
Female Adapter — P x FPT

Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB22600	½"	⅜" FPT	1.42	0.35
MB22610	½"	½" FPT	1.61	0.28
MB22620	½"	¾" FPT	1.65	0.22
MB22630	¾"	½" FPT	1.61	0.18
MB22640	¾"	¾" FPT	1.81	0.22
MB22650	1"	½" FPT	2.09	0.57
MB22660	1"	¾" FPT	1.73	0.14
MB22670	1"	1" FPT	1.89	0.20
MB22680	1"	1¼" FPTT	2.13	0.31
MB22690	1¼"	1" FPT	2.09	0.16
MB22700	1¼"	1¼" FPT	2.20	0.24
MB22710	1¼"	1¼" FPT	2.20	0.22
MB22720	1½"	1¼" FPT	2.48	0.24
MB22730	1½"	1½" FPT	2.52	0.22
MB22740	2"	2" FPT	2.83	0.22

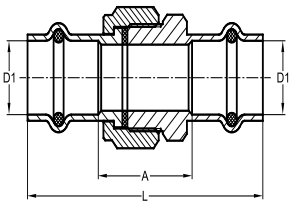


XL Female Adapter				P x FPT
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB22750	2½"	2½" FPT	3.54	0.67
MB22760	3"	3" FPT	3.98	0.75
MB22770	4"	4" FPT	4.37	0.59

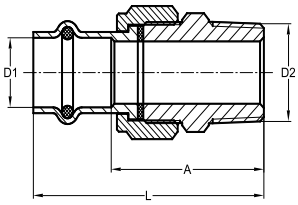




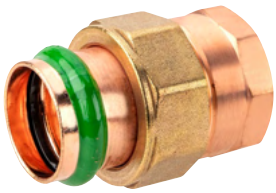
Female Street Adapter				FTG x FPT
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB32000	½"	⅜" FPT	1.57	1.10
MB32010	½"	½" FPT	1.73	1.18
MB32020	½"	¾" FPT	1.93	1.30
MB32030	¾"	½" FPT	1.73	1.18
MB32040	¾"	¾" FPT	1.93	1.30
MB32050	1"	1" FPT	1.81	1.26
MB32060	1"	½" FPT	1.93	1.30
MB32065	1"	¾" FPT	1.99	1.28
MB32070	1¼"	½" FPT	2.03	1.48
MB32080	1¼"	1¼" FPT	2.32	1.54
MB32090	1½"	1½" FPT	2.58	1.75
MB32100	2"	2" FPT	3.07	2.09

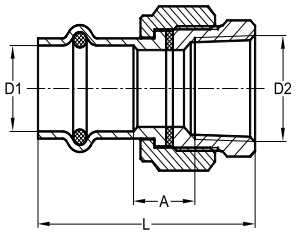


Union				P x P
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB33000	½"	½"	2.80	1.18
MB33010	¾"	¾"	2.99	1.10
MB33020	1"	1"	3.01	1.12
MB33030	1¼"	1¼"	3.43	1.14
MB33040	1½"	1½"	4.09	1.18
MB33050	2"	2"	4.57	1.34

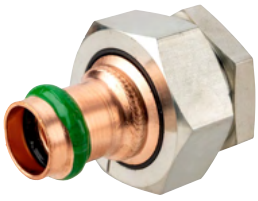


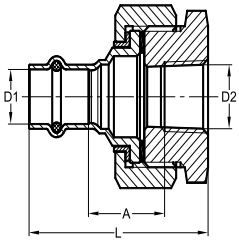
Male Union				P x MPT
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB34000	½"	½" MPT	2.58	1.77
MB34010	¾"	¾" MPT	2.72	1.77
MB34020	1"	1" MPT	2.89	1.95
MB34030	1¼"	1¼" MPT	3.27	2.13
MB34040	1½"	1½" MPT	3.62	2.17
MB34050	2"	2" MPT	3.98	2.36



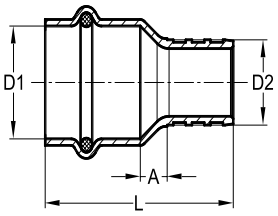


Female Union				P x FPT
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB35000	½"	½" FPT	1.99	0.67
MB35010	¾"	¾" FPT	2.15	0.61
MB35020	1"	1" FPT	2.26	0.65
MB35030	1¼"	1¼" FPT	2.93	1.00
MB35040	1½"	1½" FPT	2.91	0.67
MB35050	2"	2" FPT	3.31	0.75



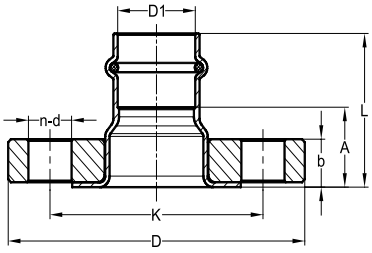


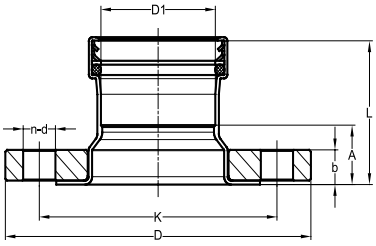
Dielectric Female Union				P x FPT
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB37000	½"	½" FPT	2.64	1.32
MB37010	¾"	¾" FPT	3.07	1.54
MB37020	1"	1" FPT	2.76	1.14
MB37030	1¼"	1¼" FPT	3.03	1.10
MB37040	1½"	1½" FPT	3.46	1.22
MB37050	2"	2" FPT	3.78	1.22



Pex (B) Adapter				P x PEX
Item Number EPDM	D1 (in)	D2 (in)	L (in)	A (in)
MB50000	½"	½" PEX	1.73	0.20
MB50030	½"	¾" PEX	1.59	0.16
MB50010	¾"	¾" PEX	2.03	0.45
MB50040	¾"	½" PEX	1.93	0.35
MB50020	1"	1" PEX	2.13	0.39

Flange Adapter								P x Flange
Item Number EPDM	D1 (in)	L (in)	A (in)	b (in)	D (in)	K (in)	d (in)	n (in)
MB60000	1"	2.28	1.34	0.63	4.33	3.11	0.63	4
MB60010	11/"	2.28	1.14	0.63	4.53	3.50	0.63	4
MB60020	1½"	2.60	1.14	0.63	4.92	3.86	0.63	4
MB60030	2"	2.76	1.14	0.63	5.91	4.76	0.75	4
MB60040	2½"	2.83	1.10	0.69	7.09	5.51	0.75	4
MB60050	3"	3.25	1.34	0.81	7.48	5.98	0.75	4
MB60060	4"	3.74	1.34	0.89	9.06	7.52	0.75	8

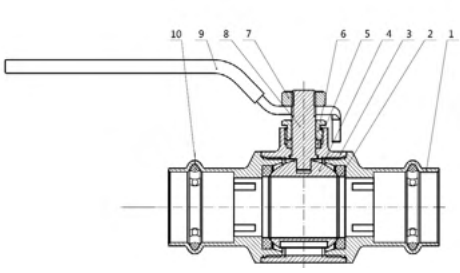


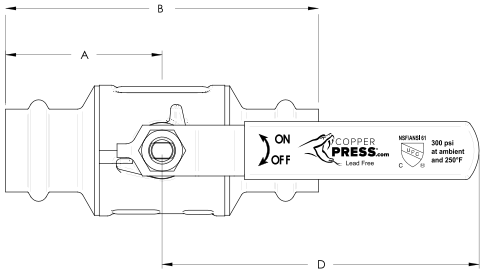


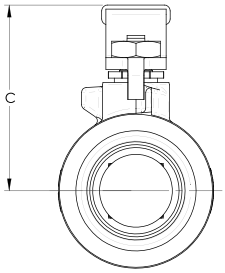
Ball Valve							P x P
Part Number	Nominal Size (in)	Dimensions (in)					Weight lbs
EPDM		A Port Ø	B	C	D	E	
MB70000	½"	0.50	1.56	3.11	1.70	3.94	0.54
MB70010	¾"	0.75	1.89	3.78	1.84	3.94	0.79
MB70020	1"	1.00	2.24	4.49	2.37	4.92	1.39
MB70030	1¼"	1.25	2.56	5.12	3.02	5.84	2.74
MB70040	1½"	1.50	2.83	5.67	3.16	6.30	4.30
MB70050	2"	2.00	3.44	6.89	4.21	7.87	7.30

Diameters: ½" – 2"

Item	Description	Material	QTY	Specification
1	Retainer	Copper	2	C12200
2	Seat	PTFE	2	
3	Body	Bronze	1	C89836
4	Ball (Sizes ½"-1")	Chrome Plated Brass	1	C46500
4	Ball (Sizes 1¼"–2")	Stainless Steel	1	304
5	Stem Packing	PTFE	1	
6	Packing Gland	Brass	1	HPb59-3P
7	Stem Nut	Zinc Plated Steel	1	Q235
8	Stem	Brass	1	C46500
9	Handle	Zinc Plated Steel	1	Q235
10	Sealing Element	EPDM	2	







INSTALLATION INSTRUCTIONS

Small Diameter (SD)

WARNING: Copper press fittings must be installed in accordance with this section. Always ensure that the pressing tool and its jaws are appropriate for the copper tubing and size of fitting. Always refer to the pressing tool manufacturer's instructions for operation and maintenance prior to use with copper press fittings. Always wear PPE such as a hardhat, gloves, and safety glasses when making press connections. Failure to follow these instructions may void the warranty and result in extensive property damage, serious injury or death.

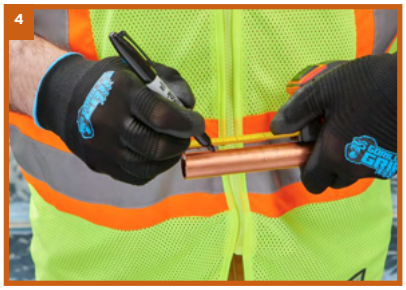
1. Cut copper tubing
After selecting the correct size of copper tubing for the job, ensure that it is clean and free from imperfections. Once inspected, cut the copper tubing at right angles using displacement type cutter or fine-toothed steel saw. Avoid jagged edges or scratching the tubing's surface. When cutting tubing, it must be cut all the way through. Never partially cut the copper tubing and break it off as it could cause leakage.

2. Deburr tubing
After the tubing is cut to length, deburr the inside and outside with a file, hand deburrer or an electrical pipe deburrer to remove debris and prevent damage to the sealing element. Once the tubing has been deburred, lightly clean the end of the tubing with a piece of sand cloth or similar material to ensure a smooth, and oil-free surface.

3. Check press fittings
In addition to checking the tubing for any imperfections, check the fitting to ensure that it is free of debris, burrs, etc., and that the sealing element is present and appropriate for the application. If the sealing element is lifted from its bead pocket, gently push it back into place being sure to not transfer dirt or debris to the sealing surface. When checking the seal for the correct fit, do not use oil and lubricants.

4. Measure & mark tubing
With a permanent marker, mark the proper insertion depth at the appropriate distance from the end of the tubing as indicated in the copper press insertion depth chart.

NOTE: improper insertion depth may result in an improper seal.



5. Insert tubing into fitting
Carefully insert the tubing into the fitting to the prescribed insertion depth. The insertion depth mark must be visible after the tubing is inserted in to the fitting to identify any movement that may occur before or after the pressing. In the instance that a fitting does not have a stop, the fitting must be centered between the tubing ends, however, the minimum tubing insertion depth must be maintained and marked.

NOTE: *if the tubing is roughly or carelessly inserted into the press fitting, it may cause damage to the sealing element.*

6. Verify tool & jaw
Verify that the tool and jaw being used for the application are the appropriate size for the fitting using an approved press tool from the copper press tooling table.

NOTE: *failure to follow these instructions may void the warranty.*

Copper Press Insertion Depth Chart					
Tube Size					
0.5"	0.75"	1"	1.25"	1.50"	2"
Insertion Depth					
3/4"	7/8"	7/8"	1"	1-7/16"	1-9/16"

7. Position tool
Ensure jaw pressing surfaces are free from debris. Once inspected, insert the approved jaw into the pressing tool and push in, hold the pin until it locks in placed. Next, open the jaws and visually check the insertion depth using the mark on the tubing.

8. Press connection
To begin the pressing process, position the tool jaws on the raised portion at the fitting end(s) then squeeze until the trigger has engaged the sealing element or Visual Indicator Press Ring (VIPR)™. The press tool will complete a cycle then stop. Do not release the trigger until the pressing action is complete. An incomplete press may reduce the pressure retention capabilities of the joint and lead to subsequent system leakage.

9. Remove tool & Inspect press connection
Once the tool has completed a full pressing cycle, release the trigger, and remove the jaw from the fitting. Once the jaw is removed from the fitting, the Visual Indicator Press Ring (VIPR)™ will break off, indicating a complete press.

NOTE: *if the Visual Indicator Press Ring (VIPR)TM does not instantly break off, simply remove by hand. Leak testing Unpressed connections can be identified prior to pressurization by the presence of the Visual Indicator Press Ring (VIPR)™ on the bead outer diameter.*

Leak testing
Unpressed connections can be identified prior to pressurization by the presence of the Visual Indicator Press Ring (VIPR)™ on the bead outer diameter. The copper press sealing element is designed to physically leak while unpressed when the system is pressurized with air (45 psi max) or water (85 psi max) or per local codes, giving redundant assurance of installation integrity.

INSTALLATION INSTRUCTIONS

Large Diameter (XL)

WARNING: Copper press fittings must be installed in accordance with this section. Always ensure that the pressing tool and its jaws are appropriate for the copper tubing and size of fitting. Always refer to the pressing tool manufacturer's instructions for operation and maintenance prior to use with copper press fittings. Always wear PPE such as a hardhat, gloves, and safety glasses when making press connections. Failure to follow these instructions may void the warranty and result in extensive property damage, serious injury or death.

1. Cut copper tubing
After selecting the correct size of copper tubing for the job, ensure that it is clean and free from imperfections. Once inspected, cut the copper tubing at right angles using displacement type cutter or fine-toothed steel saw. Avoid jagged edges or scratching the tubing's surface. When cutting tubing, it must be cut all the way through. Never partially cut the copper tubing and break it off as it could cause leakage.

2. Deburr tubing
After the tubing is cut to length, deburr the inside and outside with a file, hand deburrer or an electrical pipe deburrer to remove debris and prevent damage to the sealing element. Once the tubing has been deburred, lightly clean the end of the tubing with a piece of sand cloth or similar material to ensure a smooth, and oil-free surface.

3. Check press fittings
In addition to checking the tubing for any imperfections, check the fitting to ensure that it is free of debris, burrs, etc., and that the sealing element is present and appropriate for the application. If the sealing element is lifted from its bead pocket, gently push it back into place being sure to not transfer dirt or debris to the sealing surface. When checking the seal for the correct fit, do not use oil and lubricants.

4. Measure & mark tubing
With a permanent marker, mark the proper insertion depth at the appropriate distance from the end of the tubing as indicated in the copper press insertion depth chart.

NOTE: *improper insertion depth may result in an improper seal.*

5. Insert tubing into fitting
Carefully insert the tubing into the fitting to the prescribed insertion depth. The insertion depth mark must be visible after the tubing is inserted in to the fitting to identify any movement that may occur before or after the pressing. In the instance that a fitting does not have a stop, the fitting must be centered between the tubing ends, however, the minimum tubing insertion depth must be maintained and marked.

NOTE: *if the tubing is roughly or carelessly inserted into the press fitting, it may cause damage to the sealing element.*

6. Verify tool, ring & jaw
Verify that the tool, ring and jaw being used for the application are the appropriate size for the fitting using an approved press tool from the copper press tooling table

NOTE: *failure to follow these instructions may void the warranty.*

Copper Press Insertion Depth Chart		
Tube Size		
2.5"	3"	4"
Insertion Depth		
1-11/16"	1-15/16"	2 - 3/8"

7. Position tool
Ensure jaw pressing surfaces and ring are free from debris. Once inspected, insert the approved jaw into the pressing tool and push in, hold the pin until it locks in placed. Open the jaw on the press tool and close on the appropriate location on the ring. Next, open the ring and visually check the insertion depth using the mark on the tubing. Place the press ring onto the fitting, being sure to align it with the raised, grip-ring, portion of the fitting.

8. Press connection
To begin the pressing process, position the tool rings on the raised portion at the fitting end(s) then squeeze until the trigger has engaged the sealing element. The press tool will complete a cycle then stop. Do not release the trigger until the pressing action is complete. An incomplete press may reduce the pressure retention capabilities of the joint and lead to subsequent system leakage.

9. Remove tool & Inspect press connection
Once the tool has completed a full pressing cycle, release the trigger, and remove the ring from the fitting. Once the ring is removed from the fitting, remove the application label sticker to complete the process.

Leak testing

The copper press sealing element is designed to physically leak while unpressed when the system is pressurized with air (45 psi max) or water (85 psi max) or per local codes, giving redundant assurance of installation integrity.

LIMITED WARRANTY

LIMITED WARRANTY MERITPRESS™ FITTINGS AND VALVES AVAILABLE IN COPPER PRESS FITTINGS, COPPER PRESS VALVES, CARBON PRESS FITTINGS AND STAINLESS PRESS FITTINGS AND STAINLESS PRESS VALVES.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

THE LIMITED WARRANTY CAN ALSO BE FOUND ONLINE AT WWW.MERITBRASS.COM/WARRANTY-POLICY AND/OR IN THE DOCUMENTATION WE PROVIDE WITH THE APPLICABLE PRODUCT.

WE WARRANT THAT DURING THE WARRANTY PERIOD, THE PRODUCT WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP AS DESCRIBED IN OUR LITERATURE.

WE LIMIT THE DURATION AND REMEDIES OF ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

OUR RESPONSIBILITY FOR DEFECTIVE GOODS IS LIMITED TO REPAIR, OR REPLACEMENT AS DESCRIBED BELOW IN THIS WARRANTY STATEMENT.

Who may use this warranty?

Merit Brass Company located at One Merit Drive, PO Box 43127 Cleveland, OH 44143 ("we") extend this limited warranty only to the consumer who originally purchased the applicable product ("you"). It does not extend to any subsequent owner or other transferee of the product.

What does this warranty cover?

This limited warranty covers defects in materials and workmanship of the: (i) Copper Press fittings, (ii) the press valves, (iii) the Carbon Press fittings, and (iv) the Stainless Press fittings exclusive of all marine applications and chemical compatibility must be verified via Merit's literature or confirmed by its Technical Department prior to installation (the "product") for the Warranty Period as defined below.

What does this warranty not cover?

This limited warranty does not cover any damage due to: (a) transportation; (b) storage; (c) improper use; (d) failure to follow the product instructions or to perform any preventive maintenance; (e) modifications; (f) unauthorized repair; (g) normal wear and tear; or (h) external causes such as accidents, abuse, or other actions or events beyond our reasonable control.

What is the period of coverage?

This limited warranty starts on the date of your purchase and lasts for: (i) fifty (50) years for Copper Press fittings, (ii) fifteen (15) years for the Carbon Press fittings and the Stainless Press fittings, and (iii) five (5) years for the press valves (collectively the **"Warranty Period"**). The Warranty Period is not extended if we repair or replace the product. We may change the availability of this limited warranty at our discretion, but any changes will not be retroactive.

What are your remedies under this warranty?

With respect to any defective product during the applicable Warranty Period, we will, in our sole discretion repair or replace such product (or the defective part) free of charge. We will also pay for shipping and handling fees to return the repaired or replacement product to you.

How do you obtain warranty service?

To obtain warranty service, you must call 1-800-726-9800 or email our Warranty Claims Department at returns@meritbrass.com during the applicable Warranty Period to obtain a Return Material Authorization ("RMA") number. No warranty service will be provided without an RMA number. Upon receipt of the RMA, and at your expense, products suspected of being defective shall be returned to Merit's Warranty Claims Department at One Merit Drive, Cleveland, OH 44143. Within about six weeks of receipt, Merit will determine the cause of failure and notify the purchaser of our findings.

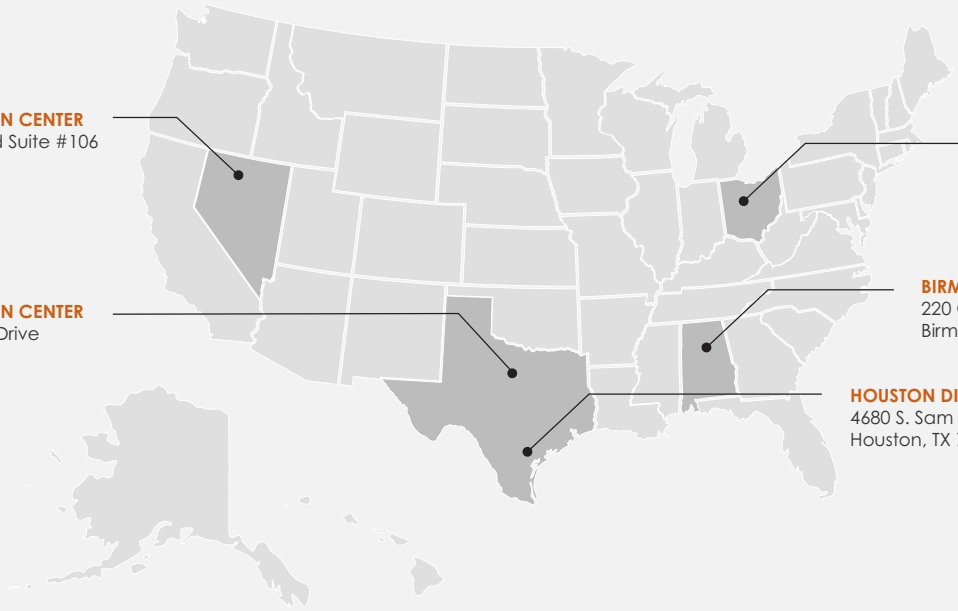
Limitation of liability

THE REMEDIES DESCRIBED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES AND OUR ENTIRE LIABILITY FOR ANY BREACH OF THIS LIMITED WARRANTY. OUR LIABILITY SHALL UNDER NO CIRCUMSTANCES EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE DEFECTIVE PRODUCT, NOR SHALL WE UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT AND/OR WHETHER CAUSED BY WATER, MOLD, LOSS OF EQUIPMENT, PROPERTY, REVENUE OR COST OF CAPITAL.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

NOTES

LOCATIONS



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CLEVELAND HEADQUARTERS
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Cleveland, OH 44143

BIRMINGHAM DISTRIBUTION CENTER
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HOUSTON DISTRIBUTION CENTER
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