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CopperPress®
By Merit Brass Co.

2023

PRODUCT CATALOG



**MERIT
BRASS**
DIRECTING THE FLOW OF *Quality*

Merit Brass Co.

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

CopperPress® fittings are Merit Brass' solution for professionals choosing to join copper tubes through the use of press technology. **CopperPress®** 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.
 - » **CopperPress®** 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.



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

See meritbrass.com for most current information.

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WHY COPPERPRESS® FITTINGS?

CopperPress® 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".

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.

CopperPress® continues the quest of modern press technology through improved joint design, increased holding power and greater reliability. Furthermore, **CopperPress®** 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, **CopperPress®** fittings are compatible with most tools and jaws on the market, making it easy for the end user.

With **CopperPress®**, 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 1/2" - 4" Copper Tube Size (CTS). Fully Captured Grab Ring on 2 - 1/2" & above. VIPR® facilitates immediate identification of unpressed connection as well as application.

The patented 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.

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, 3/4" - 2" have a 4-Path LBP System. 2.5" - 4" also have LBP.

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.

Water application stamped on the fitting as H2O in green



NSF 61 on fittings

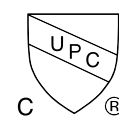
SYSTEM DATA

CopperPress® 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

CopperPress® 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



CopperPress® Fitting Pressures & Temperatures

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

CopperPress® 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

CopperPress® 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		

Note: CopperPress®, by Merit Brass Co. products can be used with Milwaukee, REMS, Ridgid, and Rothenberger tools with the associated 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			COPPERPRESS® 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 Propylene Glycol Solution	300 psi	32°F - 250°F	✓
	Hot & Cold Potable Water		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	✓

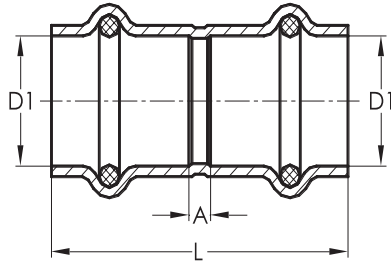
*Contact Merit Brass for information regarding specific applications

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



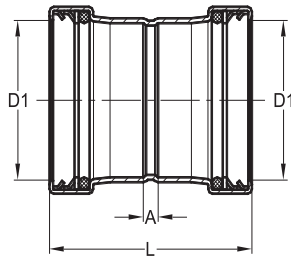
DIMENSIONAL DATA



Coupling with Stop SD

P x P

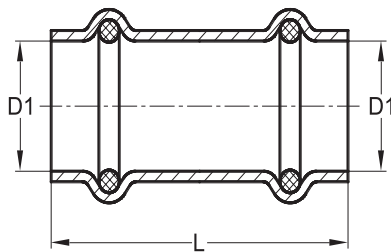
Item Number	D1 (in)	L (in)	A (in)
EPDM			
MB12230	½"	1.61	0.12
MB12240	¾"	2.05	0.16
MB12250	1"	2.05	0.16
MB12260	1¼"	2.44	0.16
MB12270	1½"	3.03	0.16
MB12280	2"	3.35	0.16



Coupling with Stop XL

P x P

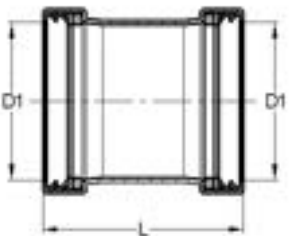
Item Number	D1 (in)	L (in)	A (in)
EPDM			
MB22230	2½"	3.86	0.39
MB22240	3"	4.37	0.35
MB22250	4"	5.20	0.39



Coupling w/o Stop SD

P x P

Item Number	D1 (in)	L (in)
EPDM		
MB12290	½"	1.69
MB12300	¾"	2.05
MB12310	1"	2.05
MB12320	1¼"	2.44
MB12330	1½"	3.03
MB12340	2"	3.35

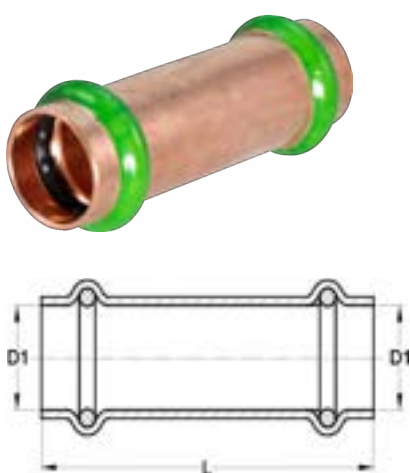


Coupling w/o Stop XL

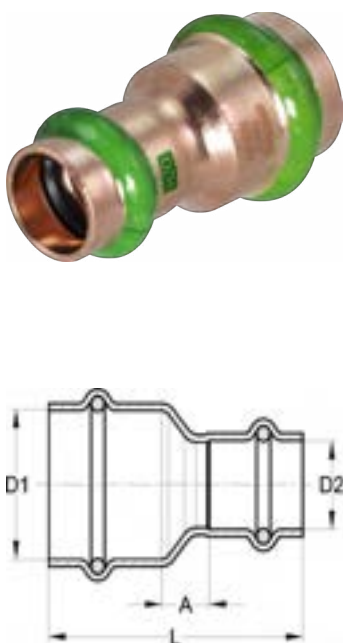
P x P

Item Number	D1 (in)	L (in)
EPDM		
MB22260	2½"	3.86
MB22270	3"	4.37
MB22280	4"	5.20

DIMENSIONAL DATA

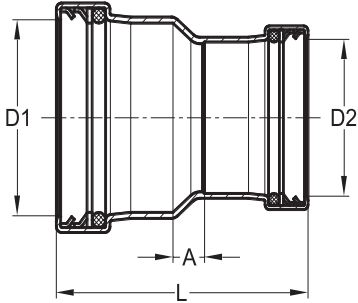


Extended Coupling without Stop SD		P x P
Item Number	D1 (in)	L (in)
EPDM		
MB12350	1/2"	2.99
MB12360	3/4"	3.50
MB12370	1"	3.74
MB12380	1 1/4"	4.13
MB12390	1 1/2"	4.72
MB12400	2"	5.31



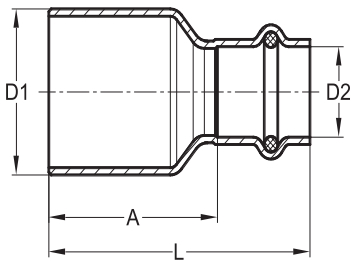
Reducing Coupling SD				P x P
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB12410	3/4"	1/2"	2.11	0.35
MB12420	1"	1/2"	2.26	0.51
MB12430	1"	3/4"	2.24	0.35
MB12435	1 1/4"	1/2"	2.68	0.73
MB12440	1 1/4"	3/4"	2.66	0.57
MB12450	1 1/4"	1"	2.50	0.41
MB12455	1 1/2"	1/2"	3.27	0.93
MB12460	1 1/2"	3/4"	3.23	0.83
MB12470	1 1/2"	1"	3.03	0.63
MB12480	1 1/2"	1 1/4"	3.07	0.47
MB12485	2"	1/2"	3.86	1.36
MB12490	2"	3/4"	3.76	1.20
MB12500	2"	1"	3.54	0.98
MB12510	2"	1 1/4"	3.58	0.83
MB12520	2"	1 1/2"	3.76	0.69

DIMENSIONAL DATA



Reducing Coupling XL

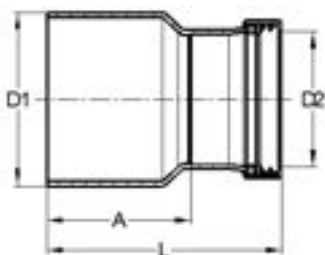
Reducing Coupling XL				P x P
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB22290	2½"	1"	4.07	1.40
MB22300	2½"	1¼"	3.90	1.02
MB22310	2½"	1½"	4.17	0.98
MB22320	2½"	2"	3.98	0.63
MB22330	3"	1¼"	4.76	1.61
MB22340	3"	1½"	4.76	1.30
MB22350	3"	2"	4.65	1.02
MB22360	3"	2½"	4.29	0.55
MB22370	4"	2"	5.98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



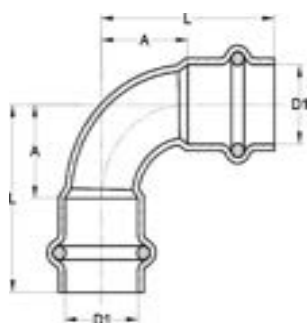
Bushing Reducer SD

Bushing Reducer SD				FTG x P
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
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

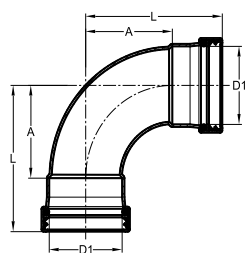
DIMENSIONAL DATA



Bushing Reducer XL				FTG x P
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
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

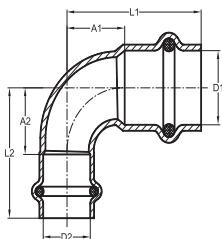


90° Elbow SD			P x P
Item Number	D1 (in)	L (in)	A (in)
EPDM			
MB11230	½"	1.56	0.75
MB11240	¾"	1.97	1.02
MB11250	1"	2.24	1.30
MB11260	1¼"	2.64	1.50
MB11270	1½"	3.23	1.77
MB11280	2"	3.98	2.36

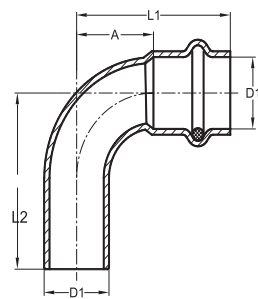


90° Elbow XL			P x P
Item Number	D1 (in)	L (in)	A (in)
EPDM			
MB22110	2½"	4.84	3.11
MB22120	3"	5.71	3.70
MB22130	4"	7.17	4.76

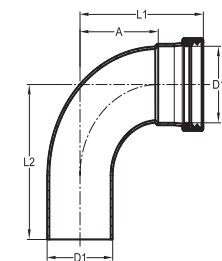
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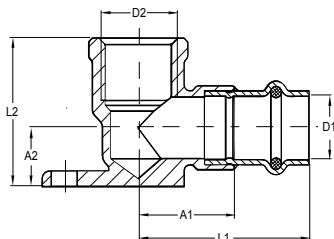
90° Reducing Elbow SD						P x P
Item Number	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
EPDM						
MB24560	3/4"	1/2"	1.83	0.89	1.69	0.89
MB24570	1"	3/4"	2.30	1.36	2.01	1.06



90° Street Elbow SD				FTG x P
Item Number	D1 (in)	L1 (in)	A (in)	L2 (in)
EPDM				
MB11350	1/2"	1.56	0.75	1.73
MB11360	3/4"	2.03	1.08	2.13
MB11370	1"	2.24	1.30	2.36
MB11380	1 1/4"	2.64	1.50	2.93
MB11390	1 1/2"	3.23	1.77	3.54
MB11400	2"	3.98	2.17	4.29

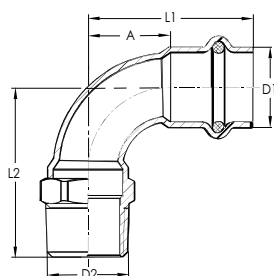


90° Street Elbow XL				FTG x P
Item Number	D1 (in)	L1 (in)	A (in)	L2 (in)
EPDM				
MB22140	2 1/2"	4.69	2.95	5.16
MB22150	3"	5.55	3.54	6.06
MB22160	4"	7.17	4.76	7.64

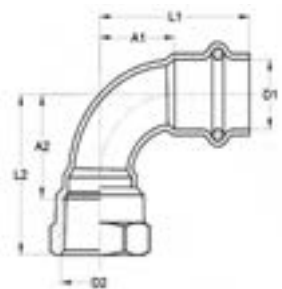


90° Drop Ear Elbow SD						FTG x P
Item Number	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
EPDM						
MB24590	1/2"	3/8" FPT	1.77	0.94	1.36	0.59
MB24600	1/2"	1/2" FPT	1.77	0.94	1.77	0.94
MB24610	3/4"	3/4" FPT	2.13	1.18	2.13	1.18

DIMENSIONAL DATA

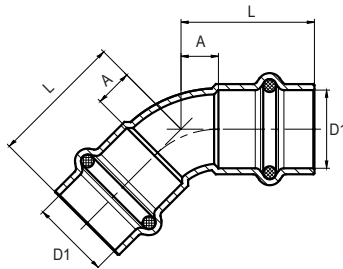


90° Male Elbow SD					FTG x P
Item Number	D1 (in)	D2 (in)	L1 (in)	A (in)	L2 (in)
EPDM					
MB47990	½"	½" MPT	1.56	0.75	1.87
MB48000	½"	¾" MPT	2.01	1.20	2.01
MB48010	¾"	½" MPT	2.15	1.20	2.15
MB48012	¾"	¾" MPT	2.03	1.09	2.11
MB48015	1"	1" MPT	2.24	1.28	2.76
MB48020	1¼"	1¼" MPT	2.64	1.50	2.64
MB48030	1½"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

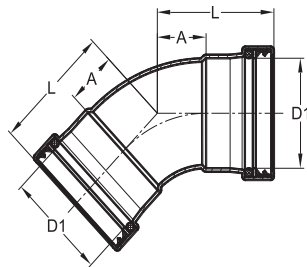


90° Female Elbow SD						P x FPT
Item Number	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
EPDM						
MB49000	½"	⅜" FPT	1.56	0.75	1.46	1.02
MB49010	½"	½" FPT	1.73	0.93	1.81	1.30
MB49020	½"	¾" FPT	1.73	0.93	1.93	1.34
MB49030	¾"	½" FPT	2.03	1.08	1.97	1.46
MB49040	¾"	¾" FPT	2.03	1.08	2.09	1.50
MB49050	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

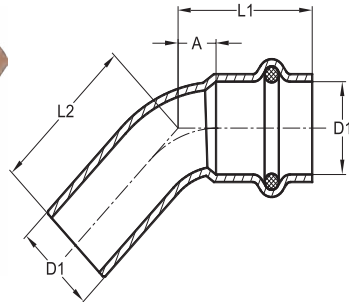
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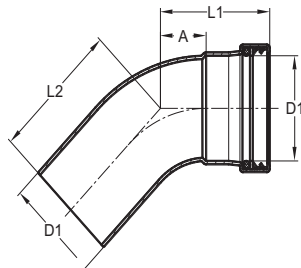
45° Elbow SD			P x P
Item Number	D1 (in)	L (in)	A (in)
EPDM			
MB11470	½"	1.10	0.30
MB11480	¾"	1.40	0.45
MB11490	1"	1.42	0.47
MB11500	1¼"	1.97	0.83
MB11510	1½"	2.30	0.85
MB11520	2"	2.44	0.83



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



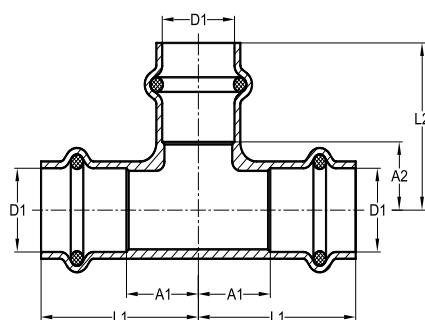
45° Street Elbow SD				P x P
Item Number	D1 (in)	L (in)	A (in)	L2 (in)
EPDM				
MB11590	½"	1.10	0.30	1.22
MB11600	¾"	1.40	0.45	1.46
MB11610	1"	1.52	0.57	1.57
MB11620	1¼"	1.97	0.83	1.94
MB11630	1½"	2.30	0.85	2.36
MB11640	2"	2.44	0.83	2.76



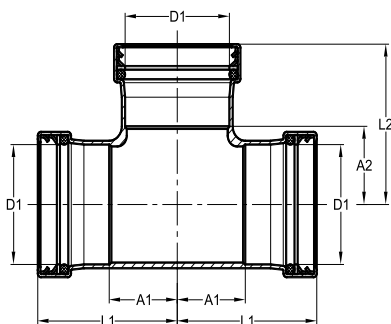
45° Street Elbow XL				P x P
Item Number	D1 (in)	L (in)	A (in)	L2 (in)
EPDM				
MB22200	2½"	3.15	1.42	3.39
MB22210	3"	3.70	1.69	3.98
MB22220	4"	4.80	2.40	5.08

DIMENSIONAL DATA

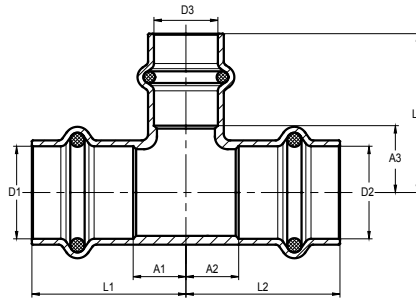
Equal Tee SD					P x P x P
Item Number	D1 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
EPDM					
MB14110	½"	1.56	0.75	1.28	0.47
MB14140	¾"	1.79	0.85	1.59	0.65
MB14190	1"	1.91	0.96	1.73	0.79
MB14280	1¼"	2.13	0.98	1.97	0.83
MB14400	1½"	2.62	1.16	2.76	1.30
MB14510	2"	2.99	1.38	3.15	1.54



Equal Tee XL					P x P x P
Item Number	D1 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
EPDM					
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



DIMENSIONAL DATA

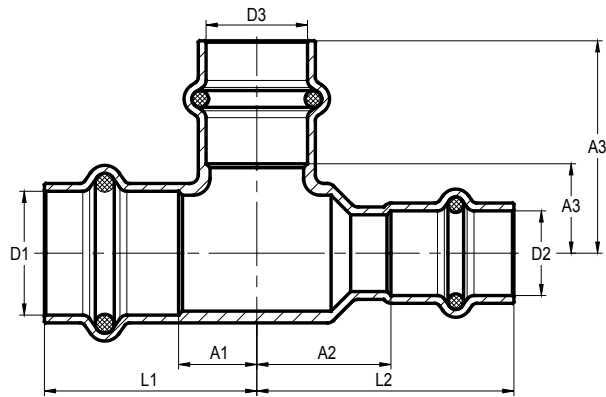


Unequal Tee SD									P x P x P
Item Number	D1 (in)	D2 (in)	D3 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)	L3 (in)	A3 (in)
EPDM									
MB14120	½"	½"	¾"	1.71	0.91	1.71	0.91	1.54	0.59
MB14130	½"	½"	1"	2.22	1.42	2.22	1.42	1.73	0.79
MB14150	¾"	½"	½"	1.63	0.69	1.75	0.95	1.44	0.63
MB14160	¾"	½"	¾"	1.79	0.85	1.87	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

DIMENSIONAL DATA

Unequal Tee SD (continued)									P x P x P
Item Number	D1 (in)	D2 (in)	D3 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)	L3 (in)	A3 (in)
EPDM									
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
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

DIMENSIONAL DATA

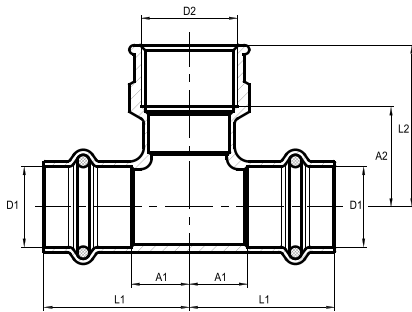


Unequal Tee XL									P x P x P
Item Number	D1 (in)	D2 (in)	D3 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)	L3 (in)	A3 (in)
EPDM									
MB24110	2½"	¾"	2½"	3.56	1.83	4.17	3.23	3.66	1.93
MB24120	2½"	1"	2½"	3.56	1.83	4.19	3.25	3.60	1.87
MB24130	2½"	1¼"	2½"	3.56	1.83	4.35	3.21	3.60	1.87
MB24140	2½"	1½"	2½"	3.56	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

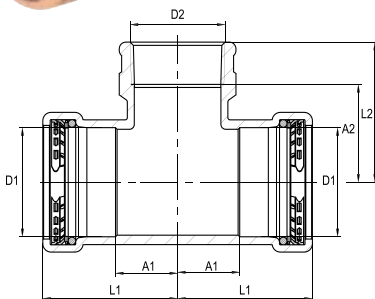
DIMENSIONAL DATA

Unequal Tee XL (continued)									P x P x P
Item Number	D1 (in)	D2 (in)	D3 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)	L3 (in)	A3 (in)
EPDM									
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
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

DIMENSIONAL DATA

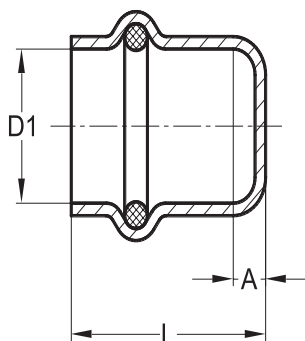


Reducing Tee SD (P x FPT)					P x P x FPT	
Item Number	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
EPDM						
MB40000	½"	½" FPT	1.56	0.75	1.44	0.89
MB40010	¾"	¼" FPT	1.63	0.69	1.34	0.93
MB40020	¾"	½" FPT	1.79	0.85	1.38	0.83
MB40030	¾"	¾" FPT	1.79	0.85	1.61	0.98
MB40040	1"	½" FPT	1.63	0.69	1.71	1.16
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

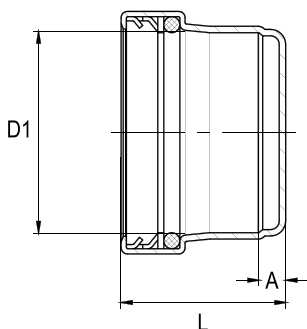


Reducing Tee XL (P x FPT)					P x P x FPT	
Item Number	D1 (in)	D2 (in)	L1 (in)	A1 (in)	L2 (in)	A2 (in)
EPDM						
MB42000	2½"	¾" FPT	3.25	1.52	3.50	2.87
MB42010	2½"	2" FPT	3.25	1.52	3.43	2.48
MB42030	3"	¾" FPT	3.64	1.63	4.02	3.39
MB42040	3"	2" FPT	3.64	1.63	3.58	2.64
MB42050	4"	¾" FPT	4.02	1.61	3.90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

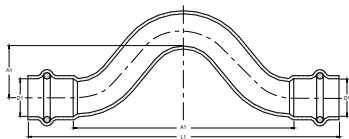
DIMENSIONAL DATA



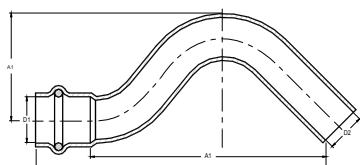
Cap SD			P
Item Number	D1 (in)	L (in)	A (in)
EPDM			
MB13110	1/2"	0.94	0.14
MB13120	3/4"	1.06	0.12
MB13140	1"	1.06	0.12
MB13150	1 1/4"	1.26	0.12
MB13160	1 1/2"	1.69	0.24
MB13170	2"	1.85	0.24



Cap XL			P
Item Number	D1 (in)	L (in)	A (in)
EPDM			
MB23110	2 1/2"	2.17	0.43
MB23120	3"	2.44	0.43
MB23130	4"	2.87	0.47

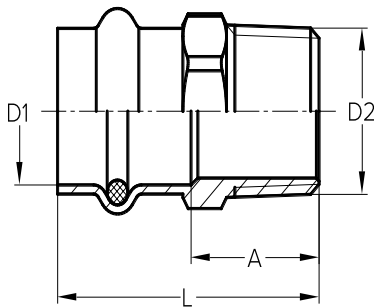


Crossover				P x P
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB23140	1/2"	5.20	3.58	0.77
MB23150	3/4"	6.34	4.45	0.91

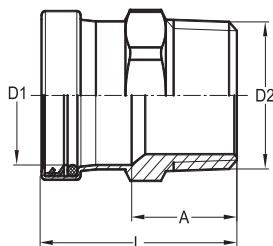


Street Crossover				P x P
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB23160	1/2"	4.61	3.80	1.10
MB23170	3/4"	5.55	4.61	1.54

DIMENSIONAL DATA

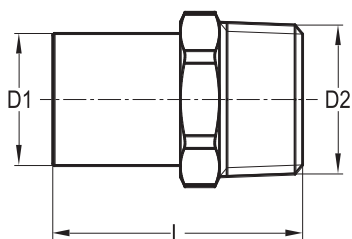
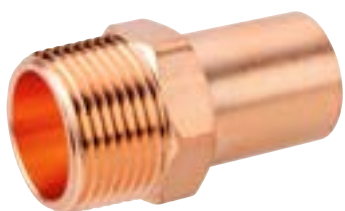


Male Adapter SD				P x MPT
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB23250	1/2"	3/8" MPT	1.65	0.85
MB23260	1/2"	1/2" MPT	1.69	0.89
MB23270	1/2"	3/4" MPT	1.77	0.96
MB23280	3/4"	1/2" MPT	2.05	1.10
MB23290	3/4"	3/4" MPT	1.89	0.94
MB23300	3/4"	1" MPT	2.05	1.10
MB23310	1"	1/2" MPT	2.13	1.18
MB23320	1"	3/4" MPT	1.93	0.98
MB23330	1"	1" MPT	1.93	1.22
MB23340	1"	1 1/4" MPT	2.09	1.14
MB23350	1 1/4"	1 MPT	2.20	1.06
MB23360	1 1/4"	1 1/4" MPT	2.20	1.06
MB23370	1 1/4"	1 1/2" MPT	2.28	1.14
MB23380	1 1/2"	1 1/4" MPT	2.70	1.24
MB23390	1 1/2"	1 1/2" MPT	2.64	1.18
MB23400	1 1/2"	2" MPT	2.64	1.18
MB23410	2"	1 1/2" MPT	2.83	1.22
MB23420	2"	2" MPT	2.80	1.46

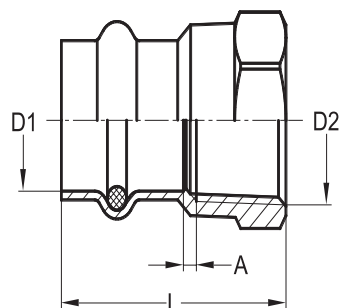


Male Adapter XL				P x MPT
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB22510	2 1/2"	2 1/2" MPT	3.78	2.05
MB22520	3"	3" MPT	4.09	2.09
MB22530	4"	4" MPT	4.69	2.28

DIMENSIONAL DATA

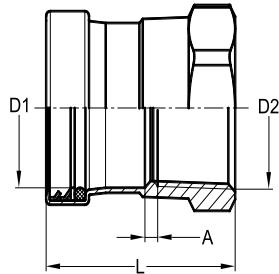


Male Street Adapter SD			FTG x MPT
Item Number	D1 (in)	D2 (in)	L (in)
EPDM			
MB22900	1/2"	3/8" MPT	1.69
MB22910	1/2"	3/8" MPT	1.77
MB22920	1/2"	3/4" MPT	1.93
MB22930	3/4"	1/2" MPT	1.93
MB22940	3/4"	3/4" MPT	1.97
MB22950	1"	3/4" MPT	1.97
MB22960	1"	1" MPT	2.13
MB22970	1 1/4"	1 1/4" MPT	2.48
MB22980	1 1/2"	1 1/2" MPT	2.87
MB22990	2"	2" MPT	3.19

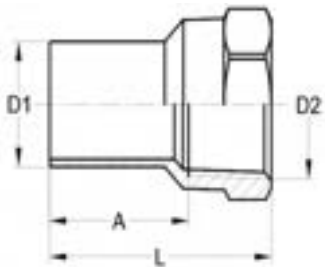
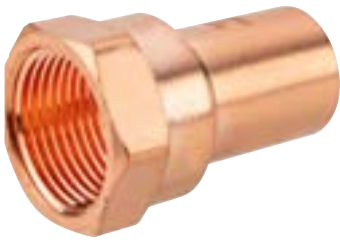


Female Adapter SD				P x FPT
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB22600	1/2"	3/8" FPT	1.42	0.35
MB22610	1/2"	1/2" FPT	1.61	0.28
MB22620	1/2"	3/4" FPT	1.65	0.22
MB22630	3/4"	1/2" FPT	1.61	0.18
MB22640	3/4"	3/4" FPT	1.81	0.22
MB22650	1"	1/2" FPT	2.09	0.57
MB22660	1"	3/4" FPT	1.73	0.14
MB22670	1"	1" FPT	1.89	0.20
MB22680	1"	1 1/4" FPT	2.13	0.31
MB22690	1 1/4"	1" FPT	2.09	0.16
MB22700	1 1/4"	1 1/4" FPT	2.20	0.24
MB22710	1 1/4"	1 1/4" FPT	2.20	0.22
MB22720	1 1/2"	1 1/4" FPT	2.48	0.24
MB22730	1 1/2"	1 1/2" FPT	2.52	0.22
MB22740	2"	2" FPT	2.83	0.22

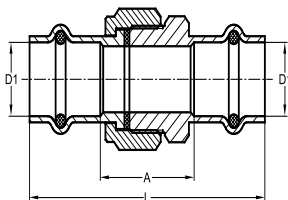
DIMENSIONAL DATA



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

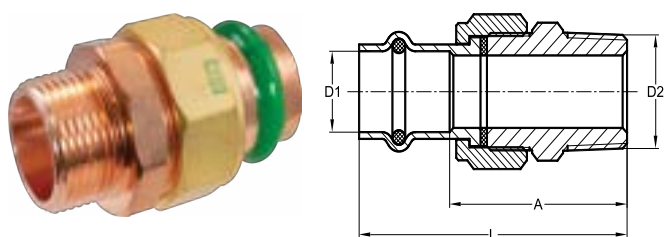


Female Street Adapter SD				FTG x FPT
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB32000	½"	⅜" FPT	1.57	1.10
MB32010	½"	½" FPT	1.73	1.18
MB32020	½"	¾" FPT	1.93	1.30
MB32030	¾"	½" FPT	1.73	1.18
MB32040	¾"	¾" FPT	1.93	1.30
MB32050	1"	1" FPT	1.81	1.26
MB32060	1"	½" FPT	1.93	1.30
MB32065	1"	¾" FPT	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

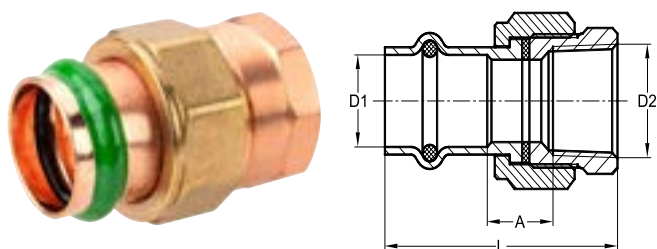


Union SD				P x P
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB33000	½"	½"	2.80	1.18
MB33010	¾"	¾"	2.99	1.10
MB33020	1"	1"	3.01	1.12
MB33030	1¼"	1¼"	3.43	1.14
MB33040	1½"	1½"	4.09	1.18
MB33050	2"	2"	4.57	1.34

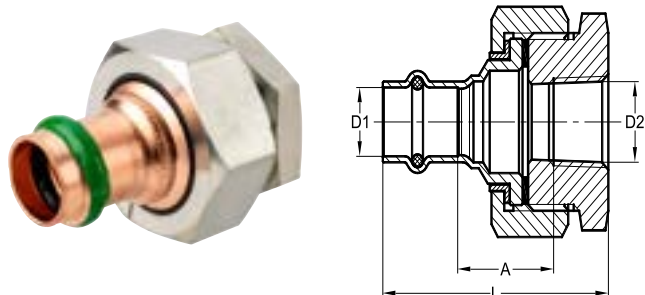
DIMENSIONAL DATA



Male Union SD				P x MPT
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB34000	1/2"	1/2" MPT	2.58	1.77
MB34010	3/4"	3/4" MPT	2.72	1.77
MB34020	1"	1" MPT	2.89	1.95
MB34030	1 1/4"	1 1/4" MPT	3.27	2.13
MB34040	1 1/2"	1 1/2" MPT	3.62	2.17
MB34050	2"	2" MPT	3.98	2.36

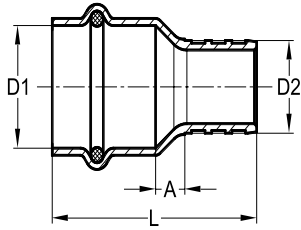


Female Union SD				P x FPT
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB35000	1/2"	1/2" FPT	1.99	0.67
MB35010	3/4"	3/4" FPT	2.15	0.61
MB35020	1"	1" FPT	2.26	0.65
MB35030	1 1/4"	1 1/4" FPT	2.93	1.00
MB35040	1 1/2"	1 1/2" FPT	2.91	0.67
MB35050	2"	2" FPT	3.31	0.75



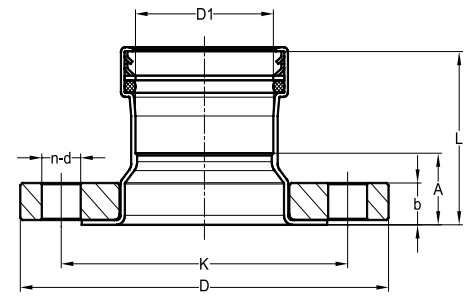
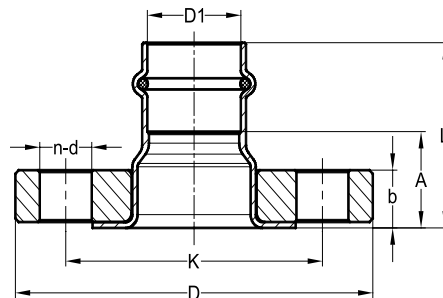
Dielectric Female Union SD				P x FPT
Item Number	D1 (in)	D2 (in)	L (in)	A (in)
EPDM				
MB37000	1/2"	1/2" FPT	2.64	1.32
MB37010	3/4"	3/4" FPT	3.07	1.54
MB37020	1"	1" FPT	2.76	1.14
MB37030	1 1/4"	1 1/4" FPT	3.03	1.10
MB37040	1 1/2"	1 1/2" FPT	3.46	1.22
MB33050	2"	2" FPT	3.78	1.22

DIMENSIONAL DATA



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

Flange Adapter							P x Flange	
Item Number	D1 (in)	L (in)	A (in)	b (in)	D (in)	K (in)	d (in)	n (in)
EPDM								
MB60000	1"	2.28	1.34	0.63	4.33	3.11	0.63	4
MB60010	1¼"	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



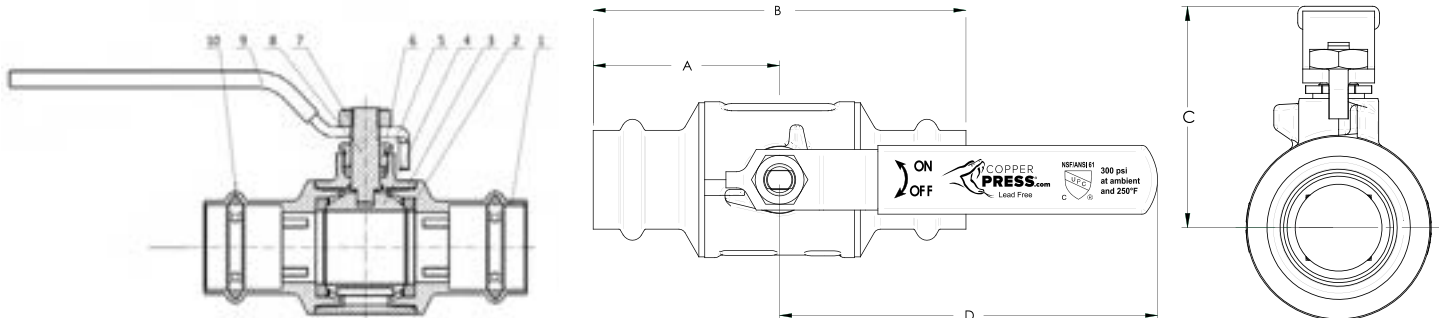
DIMENSIONAL DATA

Ball Valve SD		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: 1/2" - 2"



Item	Description	Material	QTY	Specification
1	Retainer	Copper	2	C12200
2	Seat	PTFE	2	
3	Body	Bronze	1	C89836
4	Ball (Sizes 1/2"-1")	Chrome Plated Brass	1	C46500
4	Ball (Sizes 1-1/4"-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: CopperPress® 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 CopperPress® 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 pipe

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.

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.



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 CopperPress® Insertion Depth Chart.

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



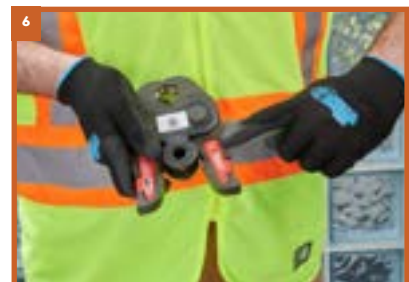
5. Insert pipe into fitting

Carefully insert the tubing into the fitting to the prescribed insertion depth.

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 CopperPress® Tooling Table.

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



CopperPress® 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"



the VIPR® will break off, indicating a complete press.

NOTE: if the VIPR® does not instantly break off, simply remove by hand. Leak testing Unpressed connections can be identified prior to pressurization by the presence of the VIPR® on the bead outer diameter.

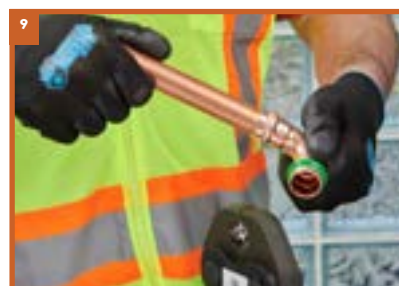
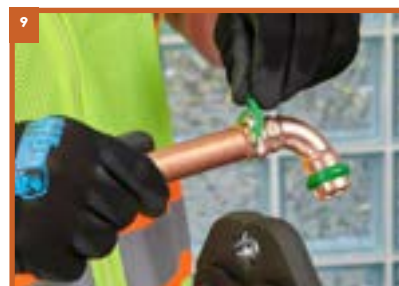
7. Position tool

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 place. 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 VIPR® (Visual Indicator Press Ring®). 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,



Leak testing

Unpressed connections can be identified prior to pressurization by the presence of the VIPR® on the bead outer diameter. The **CopperPress®** 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: CopperPress® 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 CopperPress® 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 pipe

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 CopperPress® Insertion Depth Chart.

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



5. Insert pipe 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 CopperPress® Tooling Table.

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



CopperPress® 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.



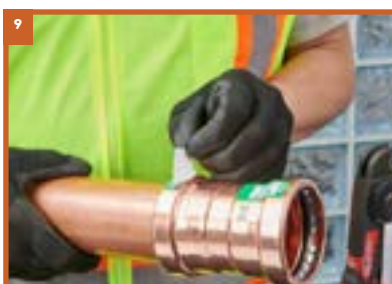
8. Press connection

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

Unpressed connections can be identified prior to pressurization by the presence of the VIPR® on the bead outer diameter. The **CopperPress®** 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 FOR COPPERPRESS® FITTINGS, COPPERPRESS® VALVES, CARBONPRESS® FITTINGS AND STAINLESSPRESS® FITTINGS AND STAINLESSPRESS® 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) CopperPress® fittings, (ii) the press valves, (iii) the Carbonpress® fittings, and (iv) the Stainlesspress® 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 **CopperPress®** fittings, (ii) fifteen (15) years for the **Carbonpress®** fittings and the **Stainlesspress®** 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.



LOCATIONS

SPARKS DISTRIBUTION CENTER

200 Vista Boulevard Suite #106
Sparks, NV 89434

LONG BEACH PIPE DEPOT

2396 E. Artesia Blvd
Long Beach, CA 90805

DALLAS DISTRIBUTION CENTER

10614 King William Drive
Dallas, TX 75220

CLEVELAND HEADQUARTERS

One Merit Drive/PO Box 43127
Cleveland, OH 44143

BIRMINGHAM DISTRIBUTION CENTER

220 Oxmoor Court
Birmingham, AL 35209

HOUSTON DISTRIBUTION CENTER

4680 S. Sam Houston Pkwy W, Suite 120
Houston, TX 77053

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