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CopperPress®

By Merit Brass Co.

Innovative Solutions

Driven to Provide Value to Your System



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BRASS**
DIRECTING THE FLOW OF *Quality*

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No Soldering or Burn Permit Needed. Shorter Lay Lengths for Those Tighter Spaces

FEATURES & BENEFITS

EPDM

50-Year Limited Warranty. 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

FIRST TO MARKET

VIPR®
Visual Indicator Press Ring®
TECHNOLOGY



Box, Bag and Ring are color-coordinated for ease of identifying the sealing element

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.



Water Application Stamped on the fitting as H2O in green

NSF 61 on fittings

APPROVED APPLICATIONS

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

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.




TOOLING REFERENCE GUIDE


CopperPress® Tools, Kits, Jaws and Rings							
Size	Milwaukee Part #	Tooling Name	Adapter	Ridgid Part #	Tooling Name	Adapter	Press 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		

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.

PRODUCT OFFERING

EPDM (Potable Water)			
	Description	Diameter Range CTS (Copper Tube Size)	
		Small Diameter	XL Diameter
		CopperPress® Coupling with Stop	½" – 2"
	CopperPress® Coupling without Stop	½" – 2"	2½" – 4"
	CopperPress® Extended Coupling without Stop	½" – 2"	
	CopperPress® Coupling Reducer	¾" – 2"	2½" – 4"
	CopperPress® Bushing Reducer	¾" – 2"	2½" – 4"
	CopperPress® 90° Elbow	½" – 2"	2½" – 4"
	CopperPress® 90° Reducing Elbow	¾" – 1"	
	CopperPress® 90° Street Elbow	½" – 2"	2½" – 4"
	CopperPress® 90° Drop Ear Elbow	⅜" – ¾"	
	CopperPress® 90° Male Elbow P x MPT	½" – 2"	
	CopperPress® 90° Female Elbow P x FPT	½" – 2"	
	CopperPress® 45° Elbow	½" – 2"	2½" – 4"
	CopperPress® 45° Street Elbow	½" – 2"	2½" – 4"
	CopperPress® Equal Tee	½" – 2"	2½" – 4"
	CopperPress® Unequal Tee	¾" – 2"	2½" – 4"
	CopperPress® Reducing Tee	½" – 2"	2½" – 4"
	CopperPress® Female Tee P x P x FPT	½" – ¾"	
	CopperPress® Female Reducing Tee P x P x FPT	¾" – 2"	2½" – 4"
	CopperPress® Cap	½" – 2"	2½" – 4"
	CopperPress® Cross Over	½" – ¾"	
	CopperPress® Street Cross Over	½" – ¾"	
	CopperPress® Male Adapter	½" – 2"	2½" – 4"
	CopperPress® Male Street Adapter	½" – 2"	
	CopperPress® Female Adapter	½" – 2"	2½" – 4"
	CopperPress® Female Street Adapter	½" – 2"	
	CopperPress® Union	½" – 2"	
	CopperPress® Male Union	½" – 2"	
	CopperPress® Female Union	½" – 2"	
	CopperPress® Dielectric Female Union	½" – 2"	
	CopperPress® Pex Adapter	½" – 1"	
	CopperPress® Flange Adapter	1" – 2"	2½" – 4"
	CopperPress® Ball Valve	½" – 2"	

SEALING ELEMENTS

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	

SMALL DIAMETER COPPER END PRESS BALL VALVE — SIZES: 1/2" – 2"

CopperPress® Ball Valve Codes & Standards

- ASME B31.1 Power Piping, B31.3 Process Piping, B31.9 Building Services Piping
- ASME A112.4.14/CSA B125.14 Manually and Automatically Operated Valves for Use in Plumbing Systems
- 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® 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

Design Features

Designed to be used with ASTM B88 Type K, L and M 1/2" – 2" copper tubing in the hard-drawn condition and soft copper tubing in sizes 1/2" – 1/4".

VIPR® (Visual Indicator Press Ring®)

facilitates immediate identification of un-pressed connections

Suitable for installation in most plumbing and heating systems including hydronic heating, low pressure steam (15 psi max), and potable water

Lead-Free Construction - Cast C89836 Bronze Body with Copper Retainers

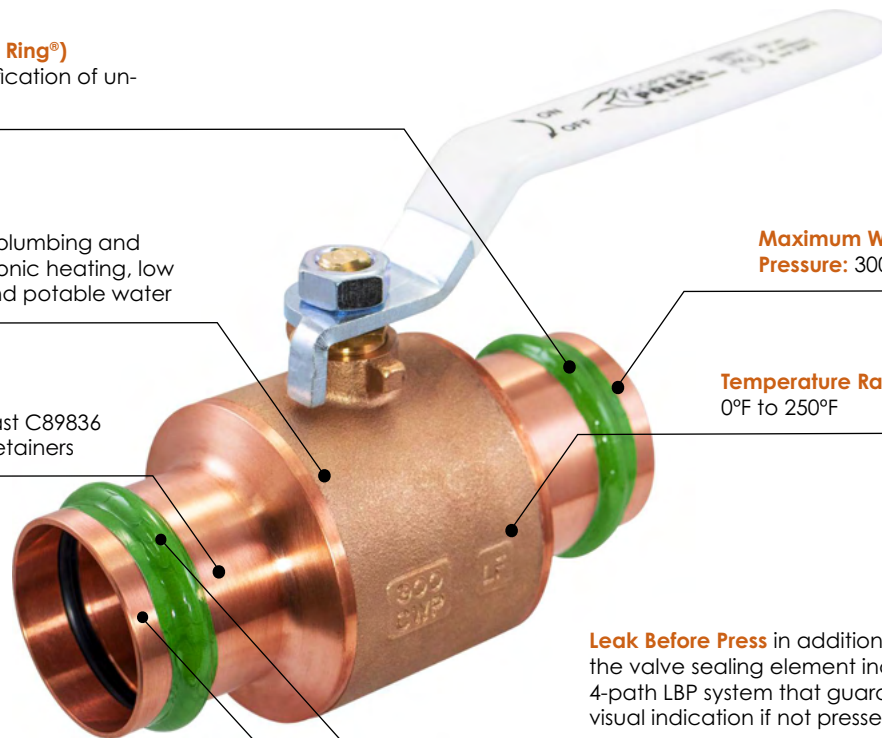


Maximum Working Pressure: 300 psi

Temperature Range: 0°F to 250°F

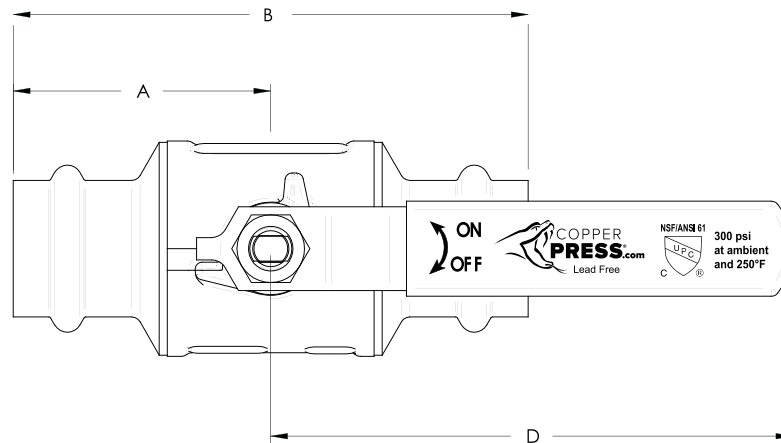
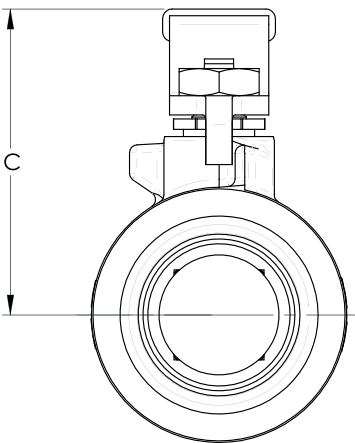
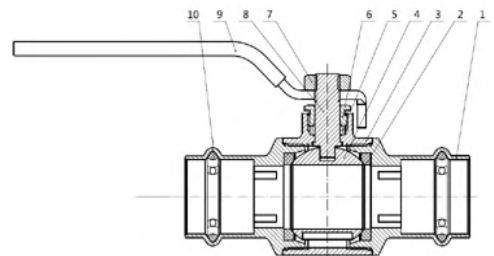
Leak Before Press in addition to the VIPR®, the valve sealing element includes a 4-path LBP system that guarantees a visual indication if not pressed

Copper Ends - protect against dezincification and stress corrosion cracking



Small Diameter Copper End Press Ball Valve Sizes: 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	



Part Number	Size (In)	A	B	C	D	Weight (lbs)
MB70000	1/2"	1.56	3.11	1.70	3.94	0.54
MB70010	3/4"	1.89	3.78	1.84	3.94	0.79
MB70020	1"	2.24	4.49	2.37	4.92	1.39
MB70030	1 1/4"	2.56	5.12	3.02	5.84	2.74
MB70040	1 1/2"	2.83	5.67	3.16	6.30	4.30
MB70050	2"	3.44	6.89	4.21	7.87	7.30

CarbonPress®
By Merit Brass Co.

CopperPress®
By Merit Brass Co.

StainlessPress®
Isotubi-USA, By Merit Brass Co.

MeritPress™
By Merit Brass Co.



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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