



# **Innovative Solutions**

Driven to Provide Value to Your System





# Streamlining Project Planning & Execution

Save **up to 30%** in project planning, cost & execution





Supporting Distribution Growth Strategies Through Vertical Market Relationship Building





Saves Time, Money & Labor

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

# **FEATURES & BENEFITS**

#### **EPDM**

**50-Year Limited Warranty.** Available in Sizes ½"–4" Copper Tube Size (CTS). Fully Captured Grab Ring on 2–½" & above. VIPR® facilitates immediate identification of unpressed connection as well as application





**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 Co	CopperPress® Seal		
	1,000 01 0011100	Notes	otes Pressure Temperatur		EPDM
	Chilled Water	Ethylene Glycol/Propylene Glycol	300 psi	32°F - 250°F	<b>✓</b>
	Cooling Water	Up to 50% Ethylene Glycol or Propolene Glycol Solution	300 psi	32°F - 250°F	<b>✓</b>
Fluids/	Hot & Cold Potable Watecr		300 psi	32°F - 250°F	<b>✓</b>
Water	Hydronic Heating	Ethylene Glycol/Propylene Glycol	300 psi	32°F - 250°F	<b>✓</b>
	Low-Pressure Steam		Up to 15 psi	248°F	<b>✓</b>
	Rainwater/Gray Water		300 psi	32°F - 250°F	<b>✓</b>
Fuel, Oil & Lubricant	Ethanol	Pure Grain Alcohol	300 psi	32°F - 250°F	<b>✓</b>
	Argon	Welding Use	300 psi	Ambient	<b>✓</b>
	Carbon Dioxide - CO2	Dry	300 psi	32°F - 250°F	<b>✓</b>
	Compressed Air	Less Than 25mg/m3 Oil Content	300 psi	32°F - 250°F	<b>✓</b>
Gas	Hydrogen - H2		125 psi	0°F - 250°F	<b>✓</b>
	Nitrogen - N2		300 psi	32°F - 250°F	<b>✓</b>
	Oxygen - O2 (Non-Med)	Keep Oil and Fat Free/Non-Liquid O2	140 psi	Up to 140°F	<b>✓</b>
	Vacuum		29.2 in Hg	Call	<b>✓</b>

<sup>\*</sup>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**



## **SEALING ELEMENTS**

EPDM SEALING ELEMENT					
EPDM	Ethylene-propylene-diene monomer				
Color	Black				
Temperature	0°F to 250°F				
	Potable Water				
Common Applications	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

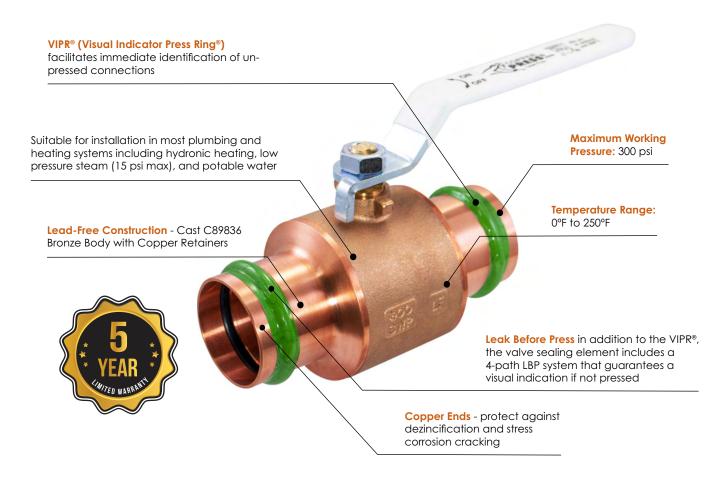
- ASME B31.1 Power Piping, B31.3 Process Piping, B31.9 Building Services Piping
- ASME A112.4.14/CSA B125.14 Manually and Automatically Operated Valves for Use in Plumbing Systems
- IPC, IMC, IRC, UPC, UMC
- CPC & CMC (California Plumbing and Mechanical Codes)
- City of Los Angeles Plumbing and Mechanical 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

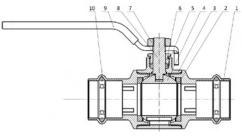
### **Design Features**

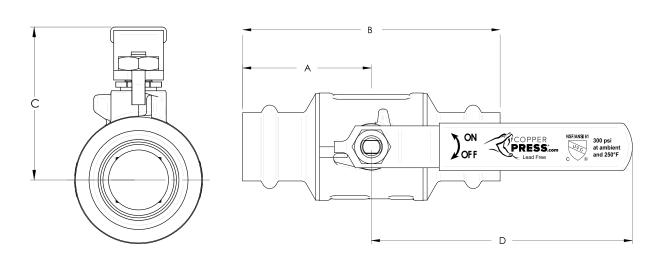
Designed to be used with ASTM B88 Type K, L and M  $\frac{1}{2}$ " – 2" copper tubing in the hard-drawn condition and soft copper tubing in sizes  $\frac{1}{2}$ " –  $\frac{1}{4}$ ".



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 ½" – 1")	Chrome Plated Brass	1	C46500		
4	Ball (Sizes 11/4" - 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)	Α	В	С	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	11/4"	2.56	5.12	3.02	5.84	2.74
MB70040	1½"	2.83	5.67	3.16	6.30	4.30
MB70050	2"	3.44	6.89	4.21	7.87	7.30



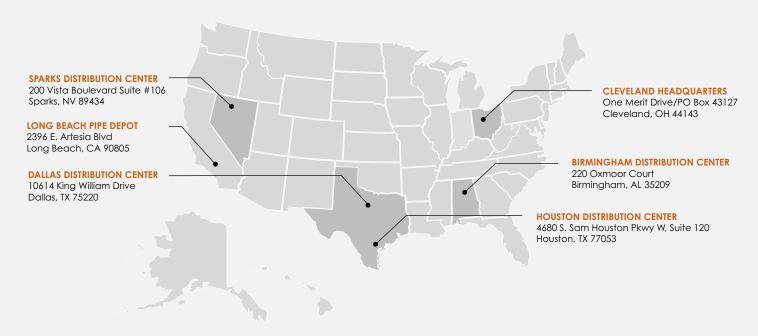








# **LOCATIONS**



# **CONTACT US**



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#### **LEARN MORE**



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