

ULTRAPRESS[®]
BY MILWAUKEE VALVE

Pressed for time?

JUST PRESS, CRIMP AND SAVE.




MILWAUKEE VALVE



IMPRESSIVE

Milwaukee Valve's newly expanded UltraPress® line will save you more time than ever. Designed for press-connection systems piping potable water, HVAC and inert gases at 200 psi or less, UltraPress valves are quickly "pressed" into place. No more messy, multi-step brazing, soldering or screw-in installations.

Fast, easy – saves money too!

Special tools are not required. UltraPress valves install using compression tools and equipment commonly used by plumbing and HVAC professionals.

REDUCE INSTALLATION TIME
UP TO 68%

Some joint preparation is required (cutting and deburring), but UltraPress valves substantially reduce your overall installation time—up to 68%. That's the equivalent of three UltraPress valves installed in the same time period as one standard-installation valve.

With no open flame required, water service connections can be made wet or dry, making repairs quick and easy. Plus, UltraPress eliminates the costs of solder, flux, propane torches, oxygen/gas bottles, "hot" work permits and other heat-installation requirements.

Fully annealed for extra strength and flexibility

UltraPress parts are fully annealed at Milwaukee Valve's factory prior to final assembly. Annealing increases flexibility, strength and sealing integrity to ensure reliable crimping installations and long-term performance.

More UltraPress options: brass, bronze and lead-free UltraPure®

In addition to ½" to 4" UltraPress ball valves, we now offer ball, gate, globe and check valves by incorporating our screw-in fitting made of UltraPure lead-free alloy. For hose-end applications, UltraPress ball valves are also available with a press fitting on one end and threaded on the other. And all Milwaukee Valve extensions and accessories are available for the UltraPress line, including insulator, extension and lockout handles.

Productivity

Statistics are derived from MCAA's WebLEM (Web-Based Labor Estimating Manual). Estimates were based on installing comparable 1" two-piece ball valves. Time includes copper-pipe preparation (cleaning & deburring) and valve installation.

Solder



1 VALVE

39.6 minutes



12 minutes



1 HOUR

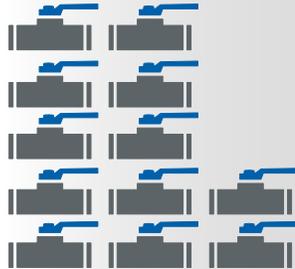


1 valve

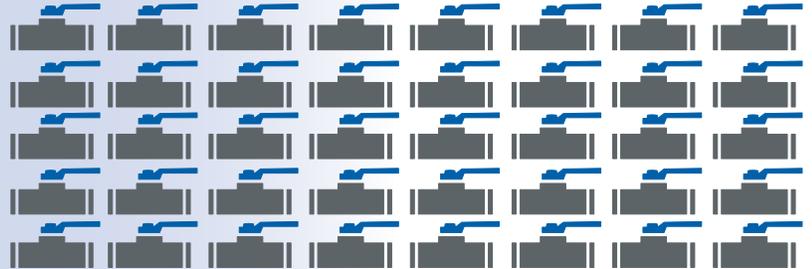


5 valves

1 DAY
(8 HOURS)

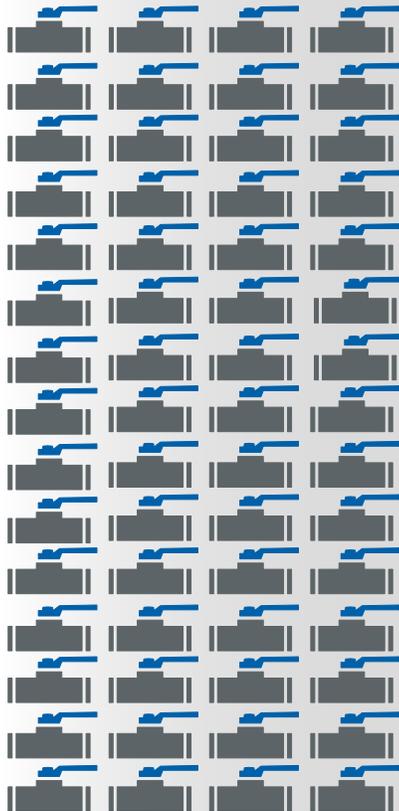


12 valves



40 valves

1 week
(40 HOURS)



60 valves



200 valves

Rigorous testing for reliable performance

Every size of UltraPress® valve undergoes a hydrostatic pressure (axial) test to failure, and must hold a factor of safety of at least 800 psig test pressure holding capability.



UltraPress® valves undergo a reverse bending/fatigue test, with superimposed alternating pressure spikes, to 250,000 cycles of bending with 250,000 [0-80-0] psig pressure cycles.



Because the major certifying agencies (MSS, ASTM and ASME) have not yet established standards for press-connection systems, Milwaukee Valve proactively developed a rigorous test regimen for its UltraPress product line. Prior to production, UltraPress valves go through stringent metallurgical verification, to ensure specified material quality and integrity levels. And each UltraPress design undergoes high-pressure, in-line holding strength and mechanical bending testing that duplicates expansion/contraction stresses the installed valve will experience during its service life.

UltraPress® Ball & Check Valves



- Brass or UltraPure® alloy construction with integral press ends.
- UltraPure alloys are certified by International Association of Plumbing & Mechanical Officials (IAPMO).
- Two-piece construction, full port.
- Ball valves available in ½" to 4".
- Press X Press End, Press X Hose End or Press X Thread.
- Rated to 200 psig at 250° F.
- Ball valves feature PTFE seats and seals, adjustable stem packing and blowout-proof stems.
- All available handle and stem extension options.
- Check valves available in ½" to 2".
- Check valves prevent backflow, and feature brass or UltraPure construction with bronze discs.

UltraPress® Ball Valve Accessories



“LD” Locking Device

Handle can be locked in either full open or full closed positions (with the addition of a standard padlock) to meet OSHA requirements. Handle and locking device are made of stainless steel to provide additional strength and corrosion resistance.

“XH” Extension Handle

Designed for installation where obstructions make standard handles inoperable, the “XH” stem extension is ideal for valves mounted behind panels, pipe insulation or any other obstruction.

“SH” Stainless Steel Handle

Intended for harsh environments such as salt-water spray, high humidity and caustic cleaning chemicals, the “SH” handle adds a 316 stainless steel handle and nut to a standard bronze ball valve. (Not Shown)

“XMS” Extension Stem with Memory Stop

The “XMS” Memory Stop provides an adjustable stop when the valve is used in a balancing application, and can be set to any preset opening point.

“TH” Tee Handle

Tee handles offer the same installation space savings as oval handles, with a slightly shorter end-to-end dimension. They also require more handle force to operate, so can reduce accidental openings.

“OH” Oval Handle

Oval handles can be installed where standard lever handles might encounter interference from adjoining piping. They also prevent accidental valve operations, since they have less projection than lever handles, and require more turning force to operate.

“XLD” Extended Locking Lever Handle

Use “XLD” handles for extra security in obstructed-access installations. They accept a padlock, and can be locked in open or closed positions. (Not Shown)

“TIH” Insulator/MS® Handle

INSULATOR/MS® creates a heat transfer barrier between the piping system, the exposed portion of a valve handle and surrounding air. It controls condensation, has a reliable memory stop, and eliminates the need to disassemble for adjustments.

UltraPress® Bronze Ball, Gate, Globe & Check Valves



- Bronze construction.
- Available in 1/2" to 3".
- Rated to 200 psig at 250° F.
- Ball valves are quarter-turn, ideal for on/off service and isolation, and full-flow without pressure drop.
- Gate valves are bi-directional, excellent for on/off service and provide full flow with low pressure-drop. They feature a solid wedge disc, threaded bonnet, are gland packed, and available in rising or non-rising stem.
- Globe valves have bronze construction, bronze discs, and are recommended for throttling operations.
- Check valves prevent backflow, and feature bronze or brass construction with bronze discs.

UltraPress® UltraPure® Ball, Gate, Globe & Check Valves



- Certified by International Association of Plumbing & Mechanical Officials (IAPMO) for use in low-lead applications.
- UltraPure® alloy construction.
- Available in 1/2" to 4".
- Rated to 200 psig @ 250° F.
- Ball valves are quarter-turn, ideal for on/off service and isolation, and full-flow without pressure drop.
- Gate valves are bi-directional, excellent for on/off service and provide full flow with low pressure-drop. They feature a solid wedge disc, threaded bonnet, are gland packed, and available in rising or non-rising stem.
- Globe valves have bronze construction, bronze discs, and are recommended for throttling operations.
- Check valves prevent backflow, and feature UltraPure alloy construction with bronze discs.

UltraPress® Valve Specifications



- Mates with standard copper (K, L or M) tubing, any temper, conforming to ASTM B88.
- Assembles and seals reliably with tooling made for, or compliant with standard press-fit systems.
- Factory installed EDPM O-rings.
- Low-lead versions both the valve and 4151 series press end adapters are certified to NSF/ANSI 61 and NSF/ANSI 372.
- Prior to production and sale, at a minimum, each size must be qualified by:
 - Hydrostatic (axial) test to failure, must hold FS (factor of safety) of at least (4) to pressure rating (800 psig test pressure holding capability, minimum).
 - Completely reversed bending/fatigue test, with superimposed alternating pressure spikes, to 250,000 cycles of bending with 250,000 [0-80-0] psig pressure cycles superimposed.

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