ULTRAPRESS®

Frequently Asked Questions

MILWAUKEE VALVE

HAMMONDVALVE

Ultra Pure®
A MILWAUKEE/HAMMOND VALVE PRODUCT

1. Why UltraPress®?

For more than 100 years, customers like you have counted on Milwaukee Valve for reliable products that meet or exceed industry standards. Our UltraPress line is no exception.

UltraPress:

- Significantly reduces installation time and costs.
- Offers the convenience of wet or dry servicing.
- Is fully annealed for superior strength and flexibility.
- You can reduce installation time by up to 68%, without special tools, solder, heat or the mess associated with "sweating", brazing or threading a valve.

2. Where can I use UltraPress valves?

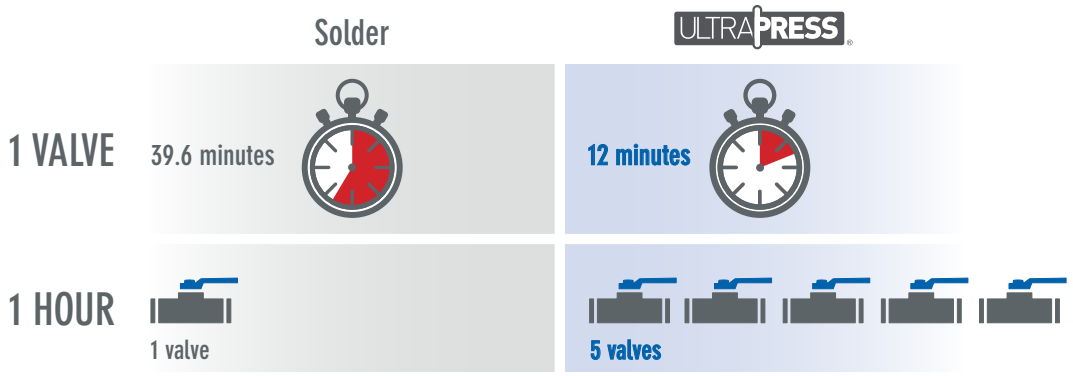
Designed for systems that are rated up to 200 psig @ 250° F (some models are certified up to 250 psig @ 250° F), typical UltraPress applications include:

- Hot and cold water. UltraPure products are suitable for potable water.
- Hydronic heating (water mixture of butylene, ethylene, glycol and propylene, up to 100%).
- HVAC.
- Chilled water.
- Compressed air – (Air must be clean, dry, and oil-free filtered).
- Inert gas systems.
- Low-pressure steam (15 psi maximum).
- Vacuum systems.
- Gray water.
- Chemical systems compatible with EPDM.

Contact Milwaukee Valve or Hammond Valve engineering for application evaluation and approval.

3. How much time will I save using UltraPress?

You can reduce installation time up to 68% because there is no special tool, solder, heat or cleanup typically associated with sweating, brazing or threading a valve. It takes nearly 40 minutes to sweat a 1-inch ball valve into place. It only takes 12 minutes to press a 1-inch UltraPress ball valve.



4. Hey, I can sweat a valve in faster than 40 minutes!!!

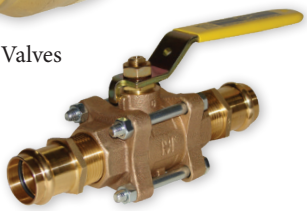
No offense intended – we believe you! However, in order to make an apples-to-apples comparison, our calculations are based on the time statistics from MCAA's WebLEM (Web-based Labor Estimating Manual). We can probably press a valve into place faster than 12 minutes, too. Time includes copper-pipe preparation (cleaning & deburring) and valve installation.

5. How do UltraPress valves seal without leaking?

The bead in each UltraPress valve contains a pre-installed EPDM (Ethylene-Propylene Diene Monomer) O-ring. This EPDM O-ring is treated with a silicone-free listed lubricant, and engages to complete a seal with the copper pipe when "pressed". The O-ring has an operating temperature range of 0°F to 250°F. When properly installed, the EPDM seal will last as long as the copper pipe.

6. What types of valves are available as UltraPress?

2-Piece Ball Valves



3-Piece Ball Valves

Gate Valves

Swing Check Valves

Globe Valves

Vertical Check Valves

7. Are no-lead UltraPress valves available?

Yes! UltraPress is available in brass, bronze and Milwaukee Valve's UltraPure lead-free alloy. Plus, all of the UltraPress adapters (both integral and add-on) are constructed of the UltraPure alloy.

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8. What is the size range of the UltraPress product line?

- Depending on the style of valve, sizes range from ½-inch to 4-inch.

2-piece ball valves	½-inch to 4-inch	Globe	½-inch to 2-inch
3-piece ball valves	½-inch to 2-inch	Swing Check	½-inch to 2-inch
Gate (non-rising stem)	½-inch to 2-inch	Vertical Check	½-inch to 2-inch
Gate (rising stem)	½-inch to 2-inch		

9. Do I need special tools for installation?

Absolutely not. UltraPress valves can be installed with standard press-fit tools. Download t*he Press-Fit Tool Compatibility Chart* from www.UltraPressValve.com.

10. Do systems have to be drained for valve installation or replacement?

No. With no open flame required, water service connections can be made wet or dry for faster, easier installation and system repairs.

11. How are UltraPress valves installed?

Tube Preparation

Step 1: Cut the tube square, using a rotary tube cutter or a fine-toothed steel saw.

Step 2: Remove internal and external burrs at both tube ends, using an emery cloth, sandpaper, a fine-tooth file, or commercially available deburring tools.

Step 3: Inspect the valve to ensure the EPDM O-ring is present, undamaged and free from oil, dirt and debris.

Step 4: Mark the insertion depth by inserting the tube into the valve with a twisting motion until it meets the stop or use a tape measure and insertion depth chart.

Pipe Size (nominal)	Insertion Depth (inches)
½	¾ (0.75)
¾	15⁄16 (0.94)
1	15⁄16 (0.94)
1-¼	1-1⁄16 (1.06)
1-½	1-7⁄16 (1.56)

Pipe Size (nominal)	Insertion Depth (inches)
2	1-9⁄16 (1.56)
2-½	1-⅞ (1.9)
3	2-⅛ (2.1)
4	2-½ (2.5)

Pressing Instructions – ½-inch through 2-inch

Step 1: Insert the tube into the valve with a twisting motion until it meets the tube stop AND insertion depth mark. (Wetting the tube with clean water may reduce friction.)

Step 2: Using approved press tool and correct jaw, open the jaw and place over the bead of the valve at a 90-degree angle to the tube centerline.

Step 3: Press. Refer to the instructions of the specific tool manufacturer.

Pressing Instructions – 2-½-inch, 3-inch and 4-inch

Step 1: Insert the tube into the valve with a twisting motion until it meets the tube stop AND insertion depth mark. (Wetting the tube with clean water may reduce friction.)

Step 2: Using approved press tool and correct ring, sling or chain, open the ring, sling or chain and place over the bead of the valve at a 90-degree angle to the tube centerline.

Step 3: Press. Refer to the instructions of the specific tool manufacturer.

12. What if I make a mistake – can I re-press the same valve?

NO! Even though Milwaukee Valve's UltraPress line makes installation quick and easy, a valve may only be pressed once. Attempting to re-press a connection can cause product damage and connection failure.

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