

Legend-Press™ Valves Installation Instructions

Application:

The Legend-Press valves are designed to permanently join with ASTM B 88 types K, L and M seamless, hard-drawn, copper water tubing commonly used in residential, commercial and industrial potable, heated and chilled water applications.

Legend-Press valve connections require the use of a pressing tool and jaw for assembly. They are compatible with commercially available tools and jaws.

WARNING! Read and understand the tool manufacturer's instructions prior to installation of the Legend-Press valves. In the event that these instructions conflict with the tool manufacturer's instructions, the tool manufacturer's instructions shall take precedence. Failure to follow the tool manufacturer's instructions may result in property damage, serious injury or death.

1. Use only clean, undamaged ASTM B 88, Type K, L or M copper tubing with the Legend-Press valve connection.
2. Cut the tubing to the desired length using a wheel-type tubing cutter or fine-tooth saw. Make sure the cut is square. Using the appropriate de-burring tool, de-burr the tubing I.D. and O.D., leaving no sharp edges or metal shavings.
3. Clean the tubing end, removing all oils, dirt and debris.
4. Inspect both of the valve's sockets to ensure that the EPDM O-rings are present and seated correctly within the socket. All Legend-Press ball valves will have **two EPDM O-rings** in each socket. Remove any debris, which may be present in the sockets, by carefully wiping them with a soft, damp cloth.

CAUTION:

Take care not to dislodge or damage the EPDM O-rings when wiping them. **Under no circumstances should a petroleum-based lubricant be applied to the EPDM O-rings!** Lubricants of this type will damage the O-rings, resulting in an improper seal, joint failure and leakage. Water (from the damp cloth) will act as a lubricant during installation.

5. Insert the tubing end into the socket. Firmly push the tubing into the socket until the tubing end contacts the stop. Mark the tubing's insertion depth with a permanent marker. Verify that the tubing end is at the correct insertion depth.

Legend-Press™ Tubing Insertion Depth

Nominal Tubing Size:	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Insertion Depth: In.	1-3/8"	1-9/16"	1-9/16"	1-9/16"	1-3/4"	2-3/16"
MM	35	40	40	40	45	55

CAUTION:

Tubing ends that are not completely inserted into the Legend-Press sockets will result in a faulty joint and seal. If necessary, remove the tubing end **after** it has been marked, measure the insertion depth and verify, using the above chart.

6. Install the correct nominal tubing size pressing jaw into the pressing tool, following the tool manufacturer's recommendations.
7. Open the pressing jaws by pinching the jaw arms together. Place the open jaw over the Legend-Press socket making sure the raised part of the socket fits into the grooved parts of the jaws. Release the jaw arms. The ends of the jaws will remain slightly apart.

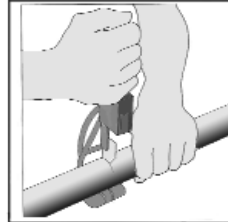
CAUTION:

Be sure that there is no copper build-up, debris or obstruction of any kind between the jaws and the valve's socket, as the jaws are positioned over the press area.

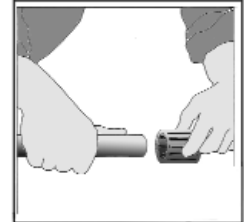
8. Visually verify that the tubing has remained inserted to the correct depth by checking the mark.
9. Position the pressing tool and jaw perpendicular to the tubing, at a right angle. Depress and hold the tool's trigger.
10. Observe the jaw ends during the pressing action. The open ends of the jaw will make contact, and the tool will complete the pressing cycle. Release the trigger.
11. Open the pressing jaws by pinching the jaw arms together. Remove the jaw and tool from the valve's socket.
12. Repeat steps one through eleven on the Legend-Press valve's opposite socket end or male fitting end. Installation is complete.

13. Inspect all connections for properly pressed joints. Pressure test all joints in accordance with local code requirements.

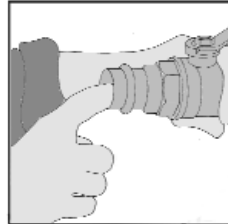
14. Support placement of the assembled tubing, fittings and valves shall be in accordance with local code requirements



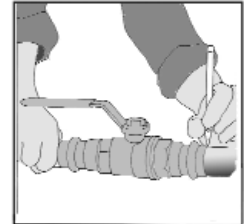
Step 1



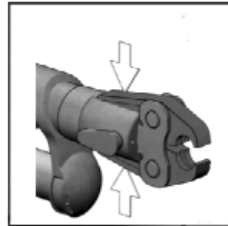
Step 2-3



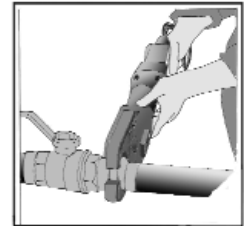
Step 4



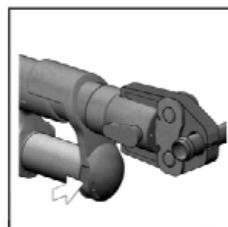
Step 5



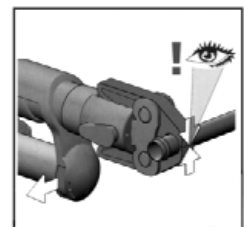
Step 6-7



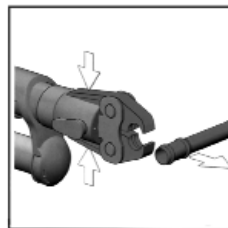
Step 8



Step 9



Step 10



Step 11



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