

The Figure 430XLC valve in sizes 2-1/2" to 4" is suitable for connection to types K, L, and M hard copper tubing compatible with ASTM B-88 and XLC copper fittings* ONLY.

These instructions have been issued in order to prevent mistakes during assembly. Please read and understand the following instructions for a proper installation of the FNW 430XLC valves for water service. Failure to follow all instructions may result in extensive property damage or serious injury.

1. Cut copper tubing at right angles (using displacement type cutter or finetoothed steel saw).
2. Keep end of tubing a minimum of 4" away from the contact area of the vise to prevent damage to the tubing in the press area.
3. **VERY IMPORTANT** - To prevent cutting the O-ring, carefully de-burr the internal and external surfaces of the tube end.
4. Mark proper insertion depth as indicated in the table below. Improper insertion depth may result in an improper seal.
5. Check seal and grip ring for correct fit. Do not use oils or lubricants. Use only FNW 430XLC black EPDM sealing elements.
6. Slowly rotate the valve while sliding the valve onto the tubing. Insert to the fitting stop. The end of the tubing must be fully inserted and contact the stop.
7. FNW 430XLC valve connections must be performed with XL-C Rings and V2 Actuator. Note: use of XL Rings and/or Actuator (for bronze fittings) will result in an improper connection.
8. Open XL-C Ring and place at right angles on the valve. XL-C Ring must be engaged on the valve bead. Note: check insertion depth.
9. With V2 actuator inserted into the tool, open the V2 Actuator as shown and connect V2 Actuator to the XL-C Ring.
10. Place V2 Actuator onto XL-C Ring and start pressing process. Hold the trigger until the Actuator has engaged the XL-C Ring. Keep extremities and foreign objects away from XL-C Ring and V2 Actuator during pressing operation to prevent injury or an incomplete press.
11. Release V2 Actuator from XL-C Ring and then remove the XL-C Ring from the valve on completion of press.
12. For safety, deburr any marks made by the XL-C Ring during pressing.



Insertion Depth Table

Tube Size	2-1/2"	3"	4"
Insertion Depth	1-5/8"	1-7/8"	2-3/8"

PRESSURE TESTING: Pressure testing is to be carried out in accordance with local codes.

WARNING: The following standards, codes and instructions should be followed when installing the FNW 430XLC.

- The FNW 430XLC valves are for use with water only and are intended for working pressure specified (max 200 PSI).
- Temperatures should not exceed 250°F.
- Undue stress or strain on the FNW 430XLC valve and tubing is to be avoided.
- Concealed tubing and FNW 430XLC valve shall be protected from potential puncture.
- If the installation requires components in addition to those supplied by the fitting manufacturer, those components shall be specified. The instructions shall state that only components provided or specified by the manufacturer are to be used in the installation.
- The valve/tubing system shall not be used as a grounding electrode for an electrical system.
- The valve/tubing system shall not be used as a means of support.

* Tests were performed in April 2009 with ProPress® XL-C Viega copper fittings.