

## Installation Instructions

### Copper Connection

- Type L or M copper only.
- Stub out and riser should be clean, round, free of burrs and the ends cut square.
- Wrench tighten ½ turn after hand tightening.

### Threaded/FIP Connection

- Apply thread sealant tape or pipe sealant to threads on the water supply pipe.
- Tighten with wrench.

### Sweat (Solder) Connection

- Before soldering, open stop valve.
- Stub out and riser should be clean, round, free of burrs and the ends cut square.
- Use a quality flux and solder per the manufacturer's instructions. Allow valve to cool before closing.

### CPVC Connection

- Stub out should be clean, round, free of burrs and the ends cut square.
- Use a quality primer and CPVC cement (conforming to ASTM F-493) per the manufacturer's instructions.

### PEX Connection

- *Barbed*: Install in accordance to the crimp tool manufacturer's instructions following ASTM F 1807 or ASTM F 1960 specified mechanical connection standards.
- *Compression*: ≤ 3/8" O.D. use plastic compression ring, for larger than 3/8" O.D. use brass compression ring with stainless steel tube insert.

### **Shut off main water supply before beginning the installation**

1. Be sure tubing end is not bent or out of round before installing. If so, replace or reshape before compressing.
2. To obtain a good seal, be sure riser is free from abrasion, grooves, or scars. Risers must be replaced.
3. For simpler alignment, use a drop of oil on compression threads. Use no pipe dope on compression threads.
4. Required torque is 1/2 turn beyond the point when nut and sleeve bite into tube (approximately 20-25 lbs).
5. Properly align and square riser and tube end so each bottom is straight into valve or fitting. Failure to do so will prevent nut from seating and could, in time, cause break.
6. Completely back off nut, then re-align and re-tighten should compression joint leak.
7. Over-tightening causes stress and can cause future failure. Manufacturer assumes no responsibility for any failure due to faulty installation, stress condition, excessive water hammer, over torque, exposure to ammonia or other foreign substances. Test prior to leaving installation site.
8. To avoid damage to Teflon seal, prior to soldering, open valve. After solder, allow to cool before closing.
9. Compression Connection: For copper pipe only. Do not use with plastic pipe or tubing.

**DO NOT OVERTIGHTEN. DO NOT REUSE STOPS. MUST CHECK IF THERE IS LEAKING AFTER INSTALLATION, IF LEAKING NEED RECHECK THE INSTALLATION OR REPLACE WITH NEW STOPS.**