

**INSTRUCTIONS**

Insert these specifications in section 23 21 13 – Hydronic Piping where applicable.

**General:**

Contractor shall provide push-fitting connections as an alternate method of joining copper pipe, copper tubing, copper alloy fittings, PEX tubing, PEX fittings, CPVC-CTS tubing, and CPVC-CTS fittings as specified in the construction documents.

**Pressure-Seal Joints:**

1. Push-fit connections shall be installed on K, L, and M hard copper tubing complying to ASTM B 88 standards, PEX tubing complying to ASTM F 876 or CSA B137.5, and CPVC-CTS tubing complying to ASTM D 2846 or CSA B137.6.
2. Fittings 1" and smaller shall be constructed of forged brass fitting, forged brass cartridge ring, stainless steel grab ring, acetal resin demounting ring, nylon demounting ring, and pre-lubricated EPDM seal. The fitting shall be used in hydronic water and water/glycol systems from 32°F to 200°F up to 250 PSI. All fittings shall be tested and comply ASSE 1061-2011; like the NexLok™ connection system.
3. Fittings 1-1/4" and larger shall be constructed of forged brass fitting, stainless steel grab ring, acetal resin end cap, nylon alignment ring, and pre-lubricated EPDM seal. The fitting shall be used in hydronic water and water/glycol systems from 32°F to 200°F up to 200 PSI. All fittings shall be tested and comply ASSE 1061-2011; like the NexLok™ LD connection system.
4. Push-fit connections shall be made in accordance with the manufacturer's installation instructions. The tubing shall be fully inserted into the fitting and the tubing marked at the shoulder of the fitting. PEX applications require the use of a PEX insertion sleeve. The fitting alignment shall be checked against the mark on the tubing to assure the tubing is fully inserted in the fitting.
5. Re-use of removable of push-fit fittings shall be permitted using the proper tools and rings as instructed and approved by the push-fit fittings manufacturer.
6. Installer shall be a qualified installer, licensed within the jurisdiction, and familiar with the installation of push-fit joint systems.
7. Follow all installation instructions of the manufacturer's push-fit fitting to ensure quality, leak tight seal. To prevent distortion of the pipe, be sure to stringently maintain the minimum distance between fittings depending on tubing diameter as directed by the manufacturer.
8. The installer shall insure that sealing elements are properly in place and free from damage.
9. Approved Manufacturers:  
Nexus Valve, Inc.