

# SmartClick™

## PUSH-TO-CONNECT FITTING SYSTEM

# Installation Guide

SmartClick™ fittings are designed for permanent installation onto ASTM F 876 and F 877 compliant PEX tubing and ASTM F2769 compliant PE-RT tubing. They are designed and approved for use in domestic and commercial applications for both potable water distribution and Hydronic heating systems. **Copper, CPVC polybutylene (PB), composite PEX-AL-PEX tubing and any type of iron pipe size (IPS) tubing or pipe must not be used!**

### CUT the tubing:

Use only clean, undamaged PEX or PE-RT tubing. Using the correct cutting tool, **CUT the tubing square**. Angle cuts of any kind are unacceptable. Re-cut if necessary.

**Verify** that the cut end is free of burrs or debris from the I.D. and O.D. If not, then clean or re-cut the tube. Verify again the tubing end is cut square, and not out-of-round.

**NOTE:** The use of the Square Buddy, tube conditioner, (P/N 465-999) will help verify that the tube has been cut square, is round, and prepped for easier insertion into the SmartClick connector. Insert the appropriate sized end of the tube conditioner into the cut tube and rotate 360° (see photo).

**PUSH** the tubing into the SmartClick™ connector until it stops, and at the same time, listen for the audible “CLICK!”

Verify that the connection is complete, by **LOOKING** for the displacement of the **RETENTION WEDGE**. The wedge can be seen through the transparent body and will be completely pushed out of the spring-steel clamp and the tubing should be visible. If the wedge has been dislodged and the tubing is visible, then installation is complete.

Pressure test the system in accordance to your overseeing national and/or local plumbing code.

### Working Pressure, Non Shock (PSI)

**Cold Working Pressure (CWP):** 200 psi at 200 F, maximum temperature (May exceed the maximum service temperature or pressure of the PE-RT or PEX tubing it is attached to.)

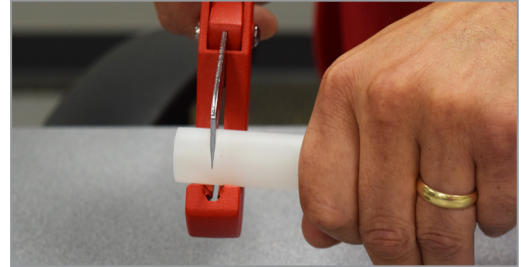
### Not suitable for steam service

Note: Colder temperatures may affect the time for the tube and the clamp to seal.

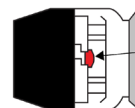
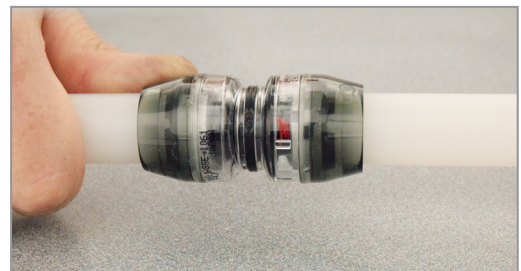
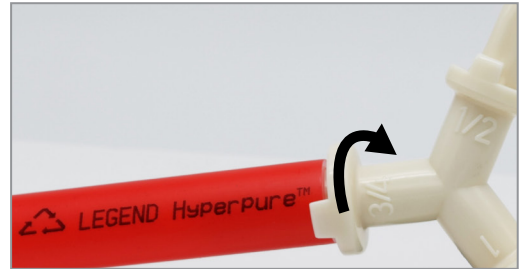
SmartClick™ fittings are approved to be utilized in underground applications and as manufactured joints without access panels for behind-the-wall installations.

**NOTES: A)** Follow any national and/or local codes that apply to behind-the-wall installations. **B)** SmartClick™ fittings installed in underground application must be protected by wrapping it with a self-fusing, non-adhesive, silicone tape. (Recommended silicone tape: Legend Coupling Wrap; P/N 830-820) See additional instructions below.

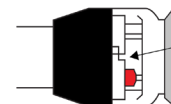
All SmartClick™ fittings are third-party certified: ASSE 1061, ANSI/NSF 61 and ANSI/NSF 14.



Tube Conditioner



Wedge



Confirm if wedge pin is jumped out.



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### Precautions:

When installing a SmartClick™ fitting with a threaded end connection, use a high quality Teflon sealing tape. Do not use a sealing paste or glue.

Do not attempt to disassemble and reuse any SmartClick™ fittings. If something is wrong with the installation of a fitting, it must be cut out and replaced with a new, unused fitting.

Protect all SmartClick™ fittings from direct sunlight and ultraviolet rays.

If you need to make a bend in the tubing after the SmartClick™ fitting has been installed, start the bend at least 4" away from the SmartClick™ fitting.

Do not store or expose SmartClick™ fittings to solvents, glues, thinners, fluxes, paints, antiseptic and/or alkaline detergents. If a SmartClick™ fitting will be installed in an area that may be subject to any of these items (including but not limited to commercial or residential kitchens and bathrooms) then the fitting must be protected by wrapping it with a self-fusing, non-adhesive, silicone tape. (Recommended silicone tape: Legend Coupling Wrap; P/N 830-820) **See additional instructions below.**

Failure to abide by any of these requirements will void the warranty.  
Visit [www.legendvalve.com](http://www.legendvalve.com) for more information.

### Repair Coupler Wrap:

Verify that the SmartClick™ fitting is leak free.

Pull back about 6 to 8 inches of the protective film from the end of the Repair Coupler Tape.

Starting about 2" away from the SmartClick™ fitting, stretch and fully overlap the tape at least 1/2" onto itself.

For best fusion, stretch the tape at least twice its length when wrapping.

Continue wrapping until you completely cover the SmartClick™ fitting and about 2" of tube on the opposite side.

Cut the wrap from the roll and stretch the end around the tube onto itself.

The silicone begins to fuse immediately and can be covered as soon as you are done wrapping it.

