Making Crimp Connections



BE SURE TO CHECK EVERY CRIMP JOINT! Every crimp joint should be checked with the GO/NO GO Gauge. If the designated GO slot fits over and will rotate around the crimped ring, you have made a proper crimp. If the crimped ring will fit in the NO GO Gauge or will not fit in the GO Gauge, you must cut the crimp joint off and make a new connection.

YOU'LL NEED GO/NO GO Gauge

More about PEX Crimp Connections

- · Can be used with both hot and cold drinking water lines or with hydronic (radiant) heating.
- · Insert fittings can be installed behind walls, but cannot be buried in concrete.
- · Use the Home Run system or install in a continuous loop.
- · PEX crimp rings are made of annealed copper. Sioux Chief's PEX V-Sleeve is made of Stainless Steel.

PEX and PB fittings and crimp rings are not interchangeable.

All Sioux Chief fittings and rings are manufactured to the ASTM Standard F1807 Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR 9 Crosslinked Polyethylene (PEX) Tubing, and are compatible with any and all fittings and rings manufactured to this same standard. All Sioux Chief plastic fittings are made to the ASTM F2159 specification for plastic insert fittings. Sioux Chief's V-Sleeve connection is made to the ASTM F877 standard for hot and cold PEX systems utilizing SDR plastic tubing.

PEX INSTALLATION GUIDE - 10/11 © 2011 SIOUX CHIEF MFG.

PEX F1807 >> Installation Guide



All of the information you'll need to plan and install PEX plumbing in your home.

www.siouxchief.com



Why Plumb with PEX?



Easy to Install

PEX tube is joined with an easy to install and test 'crimp' system—no solvent welding with messy chemicals, no chance of fire hazard possibilities due to soldering.

Cost Effective

When installed using Branchmaster manifolds fewer fittings are needed to install PEX—meaning you save money in material and time. PEX tubing also costs less than copper tubing.



Quiet

When installed using manifolds, PEX can be run in long lengths with smoother bends, meaning less water line noise. PEX also does not amplify sound as readily as copper tube. The quietest system is achieved by fastening PEX with Sioux Chief's full line of sound deadening hangers and brackets.



Installation Flexibility

PEX systems can be installed in either a conventional 'branch and tee' system, or a manifold system using Branchmaster manifolds. PEX is great for quickly adding fixtures off of your existing copper or CPVC system.



Corrosion Resistant

Because of PEX's smooth inner walls, minerals do not build up as fast as with copper tubing. It is also more resistant to the harmful effects of abrasive chemicals such as chlorine.



Freeze Resistant

While freezing conditions often cause copper and CPVC tube to break, causing thousands of dollars in water damage, PEX tube will expand several times its original size without damage. However, it is recommended that you follow all codes regarding water line freeze prevention. For maximum flexibility when servicing a line, we recommend using valved manifolds wherever they are installed. Your primary manifolds should always be valved.



Transitioning from Copper



Transitioning from CPVC



Manifold Installation

ON ON

III OFF

OFF

Why Use Manifolds



Save Time and Money

Fewer Possible Leaks

Sioux Chief Branchmaster manifolds allow you to make longer continuous runs of PEX pipe-meaning you buy fewer fittings and spend less time installing!

Running PEX Tubing

Extreme Temperatures and Sunlight

Keep PEX tube away from extreme temperatures-12" away from recessed lighting and 6" away from gas vents. (water heater, stove pipe, etc.) Also keep away from attics, crawl spaces, outside walls, or insulate per plumbing codes. Also keep out of direct sunlight.



Allow for Mistakes

Leave extra tubing at the beginning and end of runs to simplify connection to manifolds and end points (at wall or at fixture). Immediate connection to the manifold or transition fittings and then making the run reduces the chance of cutting tube too short.

Identify Tubing Runs

Clearly and permanently mark each run (at the manifold) to identify the fixture it supplies (hot or cold water, bathroom sink, kitchen sink, basement toilet, etc.). Do not apply adhesive labels to PEX pipe unless labels are approved by the tubing manufacturer.



Drilling & Notching Structural Members



No notching or boring into top/bottom flange portions is allowed. 11/2" hole allowed anywhere along web. Folow all I-Joist manufacturer's instructions.

Thermal Expansion

Because PEX tube expands and contracts at about 1" per 100 feet of pipe for every 10° change in temperature – you must allow for expansion and contraction in long runs. This can be accomplished with an offset or expansion loop.

PEX and Concrete

Tubing installed within or under concrete slabs should be continuous lengths of PEX tube. No fittings beneath concrete.



Controls Scalding

When plumbed so that each branch line feeds only one fixture. The Branchmaster greatly reduces pressure fluctuations and temperature swings that cause scalding.

Longer continuous runs with fewer crimp

leaks and avoiding the possibility of thousands of dollars in water damage!

connections means fewer chances of

Quiet Plumbing

Longer runs of pipe using fewer fittings means smoother bends and turns which reduces line noise.

Install with Confidence

Branchmaster manifolds are guaranteed against defects in materials and workmanship for the life of your plumbing system.

eakproof





Fastening PEX Tube

Finishing Tubing Runs

