

SharkBite

Poly Reducing Tee

Connect pieces of different-sized PEX-a pipe together and branch off the main line.

Features and Benefits

- Made from high-performance PPSU Polymer
- Connects to PEX-A pipe with expansions rings
- Corrosion resistant material
- No missed connections as expansion fittings cannot be dry-fit

Applications

- Potable water and radiant heating

Specifications

SharkBite expansion fittings shall be installed on SharkBite PEX-A complying with ASTM F876 or CSA B137.5. The fittings shall be made of Engineered Polymer or DZR lead-free Brass and be compliant with ASTM F1960. The fittings shall be used in a potable water or radiant heating/cooling system not to exceed 80 psi @ 200°F, 100 psi @ 180°F, or 160 psi @ 73.4°F.



#UA412

Specification Data

Technical Data

Minimum working temperature 33°F to 73°F at 160 psi
180°F at 100 psi

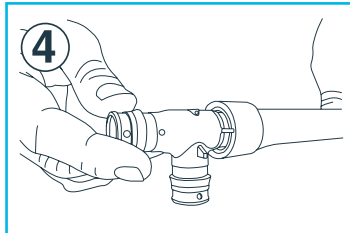
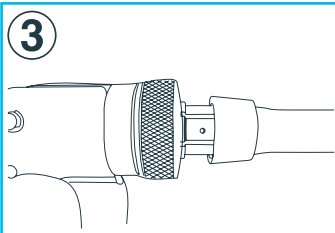
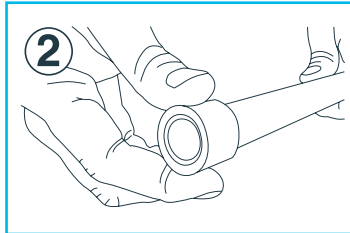
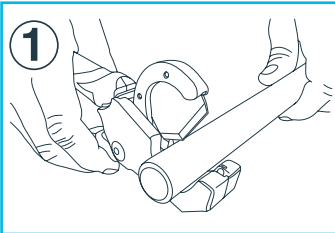
Maximum working temperature 200°F at 80 psi

Material

1 Body PPSU

Installation Requirements

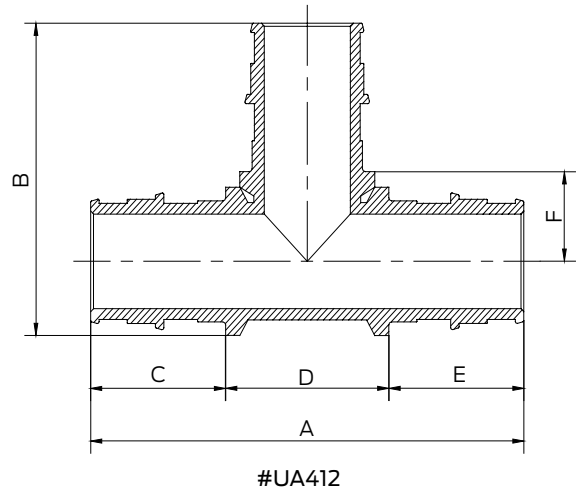
How to install SharkBite Expansion Fittings products.



- 1 Use pipe cutters to make a square cut of the pipe to length. A rough or uneven cut can result in a weakened joint.
- 2 Slide your expansion ring over the PEX tubing until it overhangs the end of the tubing by no more than 1/8" or until the stop on the ring (if present) touches the tubing.
- 3 Using an approved manual or cordless expansion tool, insert the tool into the PEX pipe and expand the pipe.
*Note that each pipe size requires the specific expander head, so ensure it is the correct size prior to beginning. The number of expansions will be dictated by the tubing size.
 - 6 expansions for 1/2 in.
 - 8 expansions for 3/4 in.
 - 5 expansions for 1 in.
 It is important to make sure the expander head rotates after each expansion to prevent ridges on the inside of the tubing.
- 4 Once the tubing is expanded, insert the fitting until it hits the shoulder and allow the PEX to contract around the fitting until secure. After several seconds the tubing will secure around the fitting, and your connection is made and ready for use.

Pipe Type

Compatible with PEX-A pipe



Dimensions

Description	Part #	A	B	C	D	E	F
3/4" X 3/4" X 1/2"	UA412	3.14	1.96	0.95	1.23	0.95	0.8
1" X 1" X 1/2"	UA415	3.54	2.14	1.19	1.17	1.19	0.88
1" X 1" X 3/4"	UA416	3.77	2.34	1.19	1.40	1.19	0.84
3/4" X 1/2" X 1/2"	UA454	3.30	1.98	0.95	1.62	0.71	0.81

All measurements are displayed in inches

Insertion Depth

Fitting Size	Nominal Pipe Size	Insertion Depth(in)
1/2 in.	1/2 in.	0.72
3/4 in.	3/4 in.	0.97
1 in.	1 in.	1.19

Wrapping for Direct Burial

Wrapping not required

Minimum Distance Between Fittings

- 1/2 in. fittings and pipe 2-1/2 in. space
- 3/4 in. fittings and pipe 3-1/2 in. space
- 1 in. fittings and pipe 4-1/2 in. space

Codes and Standards

ASTM F1960
ASTM F877
CSA B137.5
NSF/ANSI 14
NSF/ANSI/CAN 61

NSF/ANSI/CAN 372
ASTM E84
CAN/ULC S102.2
ASTM E119
CAN/ULC S101

