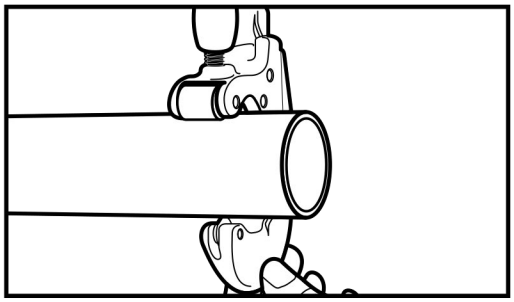
INSTALLATION INSTRUCTIONS

Installer shall be qualified, licensed within the jurisdiction, and familiar with the installation of ACR press systems. The following list of items are needed for the installation of the Streamline® ACR Copper Press Fittings:

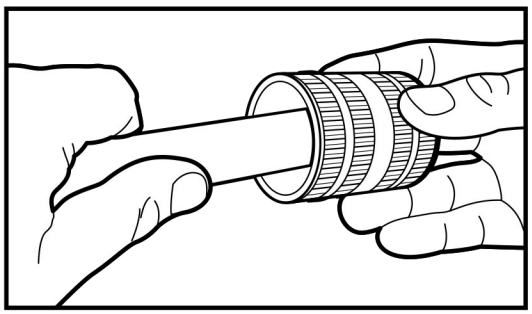
- Streamline® ACR Press Fitting
- Full-Sized press tool and Streamline® ACR Press Jaw
- Copper Tube
- Tube cutter or fine tooth saw
- Deburring tool
- Abrasive Pad such as Scotch-Brite™ medium-grade (maroon)
- Streamline® ACR Press Gauge or ruler / other measuring device
- Permanent Marker

Note: *An Installation Instruction video is available on Mueller Streamline Co.'s YouTube Channel.*



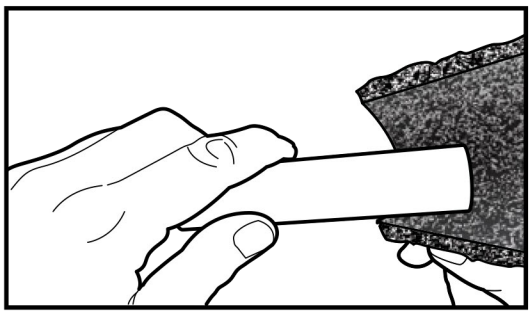
1 Cut copper tube square at a 90-degree angle using a tube cutter or a fine tooth saw.

- Do not use a worn or damaged tube cutter because it can damage the tube and compromise the installation.
- Care should be taken to avoid cutting the tube in a way that puts incise marks inside the press fitting.
- When cutting soft (annealed) tubing, do not rush or be too aggressive as this could force the tube out of round.



2 Deburr tube ID & OD using a deburring tool. Ensure tube ends are free of any burrs or sharp edges.

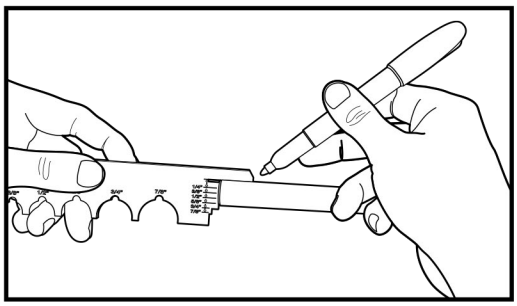
- It is critical to visually inspect and feel the end of the tube, as any sharp edges can damage the seals.
- Outside edges must be deburred with a cone tool.
- Alternatively, pen reamer may be used to clean up internal edges.



3 Clean and smooth end of tube surface using an abrasive pad. Tube surface should be free of indentation, scratches, deformations, oxidation, dirt, and debris.

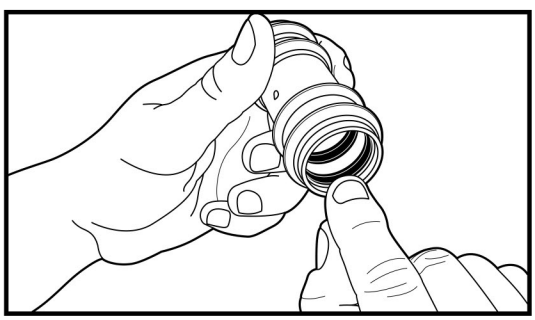
- Any imperfections on the ends of the tube where the fitting would cover could inhibit joint integrity.
- After using abrasive pad, the surface of the tube end should appear bright and shiny, and scratches and other defects will be more easily recognized.
- If tube is oval or out of round, then re-round with appropriate sizing tool.
- If any surface or roundness issues can not be corrected, then cut off that portion of tube and restart the process at a new piece of tube.

INSTALLATION INSTRUCTIONS CONTINUED



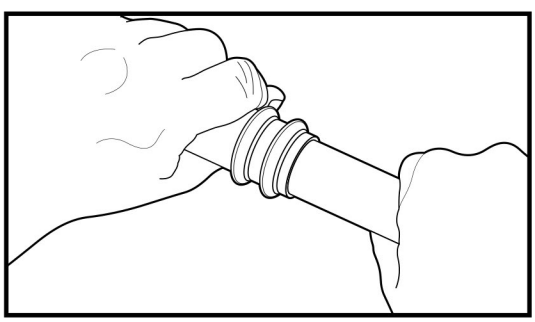
4 Mark copper tube to proper fitting insertion depth with the Streamline® ACR Press Gauge or use the insertion depth chart.

- If following the insertion depth chart use a ruler or other measuring device to measure the correct insertion depth, marking with a permanent marker.



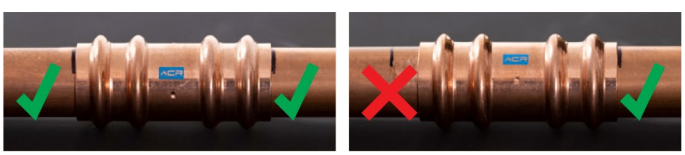
5 Check both fitting beads to ensure two seals per cup are present.

- Inspect for obvious damage such as nicks or tears. If the O-ring appears to be damaged, is out of position, or missing- do not use the fitting and use a new one.
- Fittings should remain in resealable bag until ready to use to avoid any dirt or debris from getting in the system.

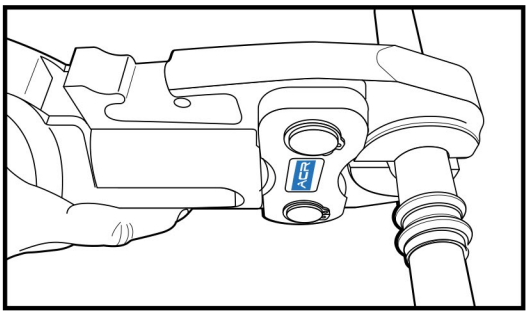


6 Slightly rotate the fitting while sliding it onto the tube. Slide all the way to insertion mark & make contact with stop.

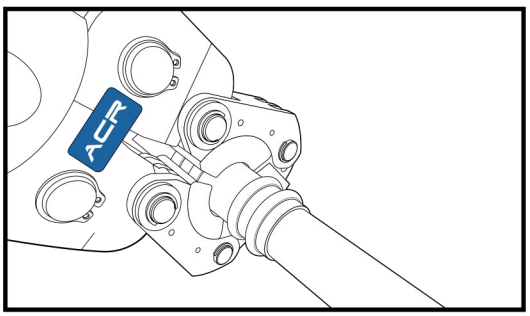
- Careful alignment of tube with fitting during insertion is critical to performance of the joint.
- The insertion mark may go slightly into the fitting or may extend up to 1/4" beyond the end of the cup. If the insertion mark is more than 1/4" beyond the edge of the fitting, then the tube is not fully inserted.
- If the tube is difficult to insert into the fitting, remove the fitting from the tube to make sure the seals are still seated in the groove. If any seal is dislodged from its groove, then discard the fitting and use a replacement fitting.



INSTALLATION INSTRUCTIONS CONTINUED

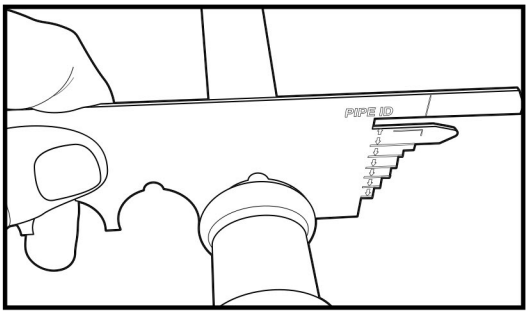


7a Place correct size Streamline® ACR press jaw over both beads at a right angle to the tube. Start the pressing process. See tool manufacturer for tool instruction.



7b For 1-1/8", use the Streamline® ACR Press Ring, Ring Jaw, and compatible full-sized press tool. Place Press Ring over both beads at right angle to tube. Use ring jaw to start the pressing process.

- Inspect the jaw at the start of project and periodically during the project for build up or debris.
- The grooves in the jaw will line up over the two seals of the fitting.
- Before pressing, visually inspect that the inserted tube has remained in place and is still at the correct insertion depth as indicated by the depth mark.



8 Verify connection is secure using the Streamline® ACR Press Gauge on the o-ring beads. Rotate gauge to avoid interference with flashing.

- If the press gauge is unable to fit through the slot on the fitting, it was under-crimped. Attempt to re-crimp to correct joint. If a fitting is still under-crimped, then it must be removed and the procedure restarted.

Streamline® ACR Press Fitting Insertion Depth Chart (1/4" to 1-1/8")							
Tube Size (OD)	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1-1/8"
Insertion Depth	1"	1-1/16"	1-3/16"	1-5/16"	1-3/8"	1-7/16"	1-1/2"

WARNING: Failure to follow all instructions could affect joint/system integrity and may lead to property damage. Call Customer Service at **1-800-FITTING** if you have any questions or need assistance.

Eye and hand protection must be worn.

WARNING: With approved press tool & jaws, such as the Milwaukee® Streamline® ACR Press Jaws. Failure to use correct jaws will affect joint/system integrity & may lead to property damage. Please see specific tool manufacturer for tool instruction.