

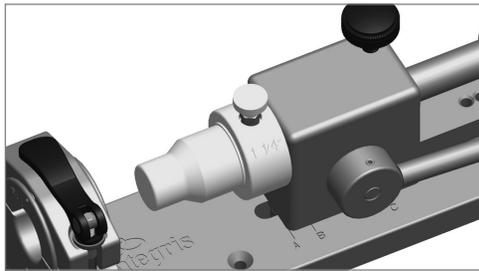
# PrimeLock<sup>®</sup> Fitting Bench Top Insertion Tool

*Insert installation instructions for  
1¼", 1½", and 40 mm sizes*

## INSTRUCTIONS

### PrimeLock<sup>®</sup> Fitting

1. Verify the tool is properly set up. Lift the adjustment knob and slide the head assembly to position "A". Release the knob.

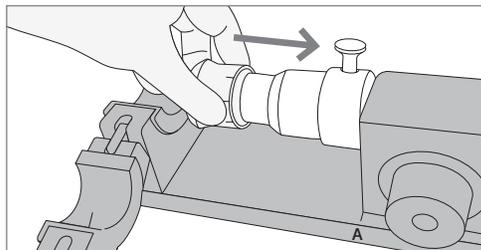


- A. The nut resides on the outside of the clamp.
- B. The nut resides between the clamp and the mandrel.
- C. Minimum tube unions used to install insert in second side.

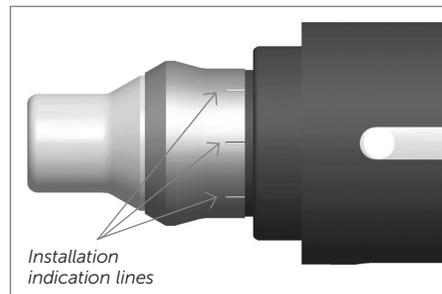
2. Verify the correct size mandrel and clamp inserts are installed for the desired tube size. Refer to the PrimeLock Accessories on [www.entegris.com](http://www.entegris.com).

**NOTE: The mandrel is removed by pulling the retaining pin and sliding it off the tool. Clamp inserts are removed by pulling them out of the clamp assembly.**

3. Slide the insert onto the mandrel as shown.



4. Verify the insert has been properly placed onto the mandrel. The installation indication lines on the insert are closest to the shoulder of the mandrel.

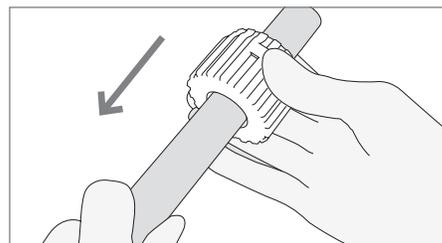


*Correct installation of insert.*

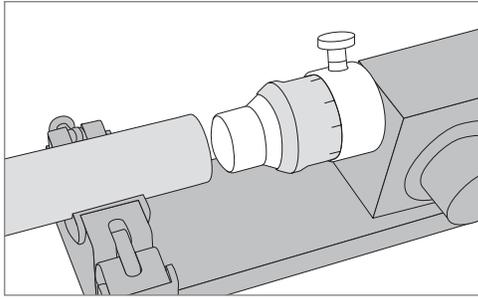


*Incorrect installation of insert.*

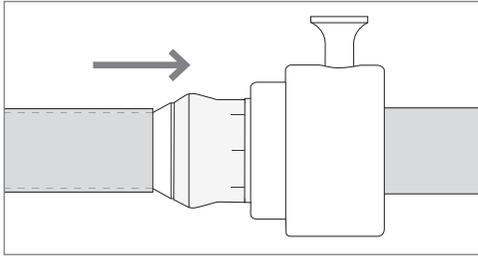
5. Insert the cut end of the tubing through the PrimeLock nut



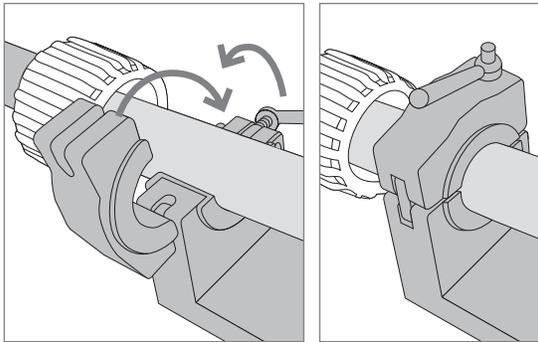
6. Slide the tubing assembly into the clamp.



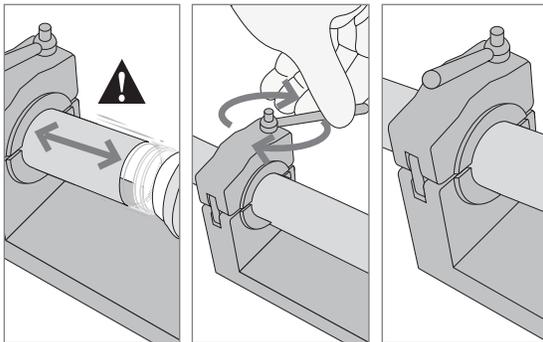
7. Slide the tube onto the mandrel until it stops.



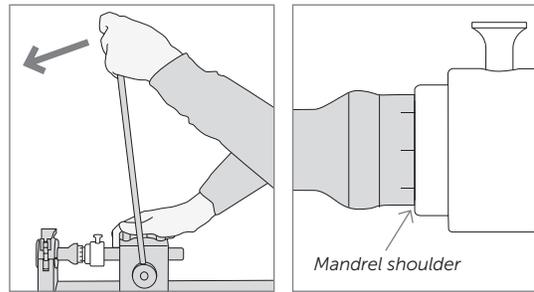
8. Clamp the tube in place.



9. If the tubing is not held firmly, clean the tubing and clamp with an IPA wipe.

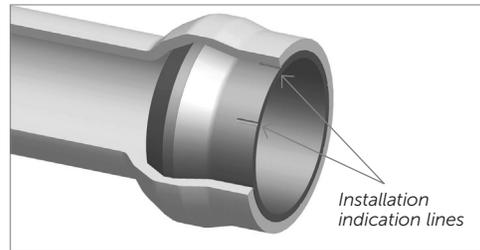


10. Rotate the handle, driving the insert into the tube until the tube contacts the mandrel shoulder.

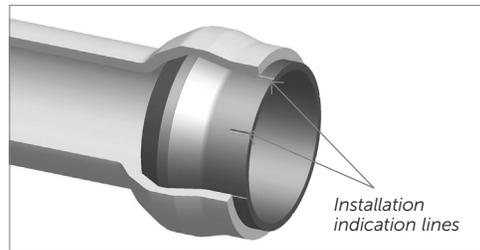


11. Retract the handle when the insert is installed into the tube. Unclamp the tube.

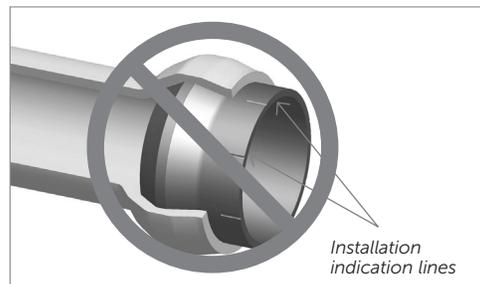
12. Verify the insert has been properly installed into the end of the tube. The insert has molded indication lines for gauging proper installation in the tube. For correct installation, the tubing will cover all or at least a portion of the indication lines. The insert does not need to be pushed fully into the tube.



Correct installation of insert.

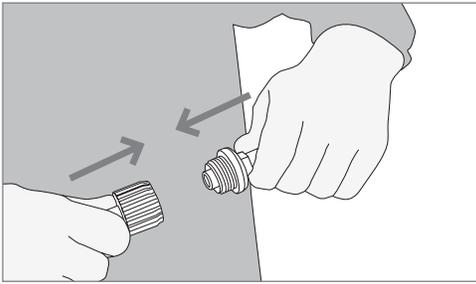


Correct installation of insert.



Incorrect installation of insert.

13. Slide the assembly onto the fitting and hand-tighten the nut.

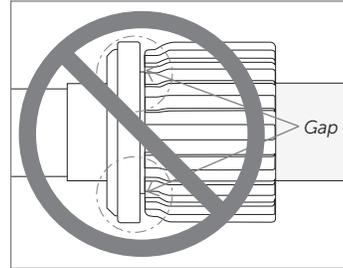


14. Place the PrimeLock wrench over the ribs of the fitting nut and rotate clockwise. Tighten the nut until the connection verification ring creates audible clicks and the leading edge of the nut travels under the connection verification ring.

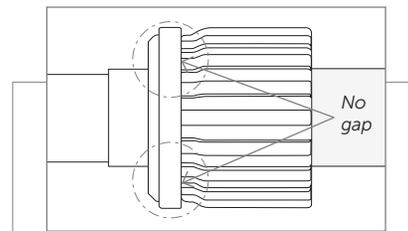


**NOTE:** Do not overtighten to the point where the nut bottoms out on the fitting body.

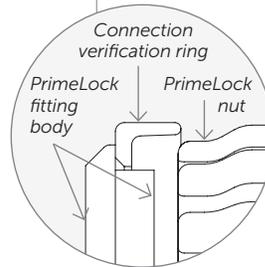
15. If there is excessive background noise, the connection can be verified by looking at the position of the connection verification ring relative to the nut.



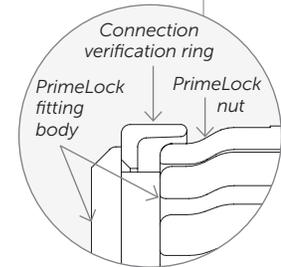
*Incorrect tightening of the fitting – additional tightening required.*



*Correct tightening of the fitting.*



*Initial tightening of the fitting – nut travels underneath connection verification ring.*



*Maximum tightening limit – nut bottoms out on the fitting body.*

**CAUTION:** Do not retighten the fitting while the fitting assembly is above 30°C (86°F) or in a pressurized condition.

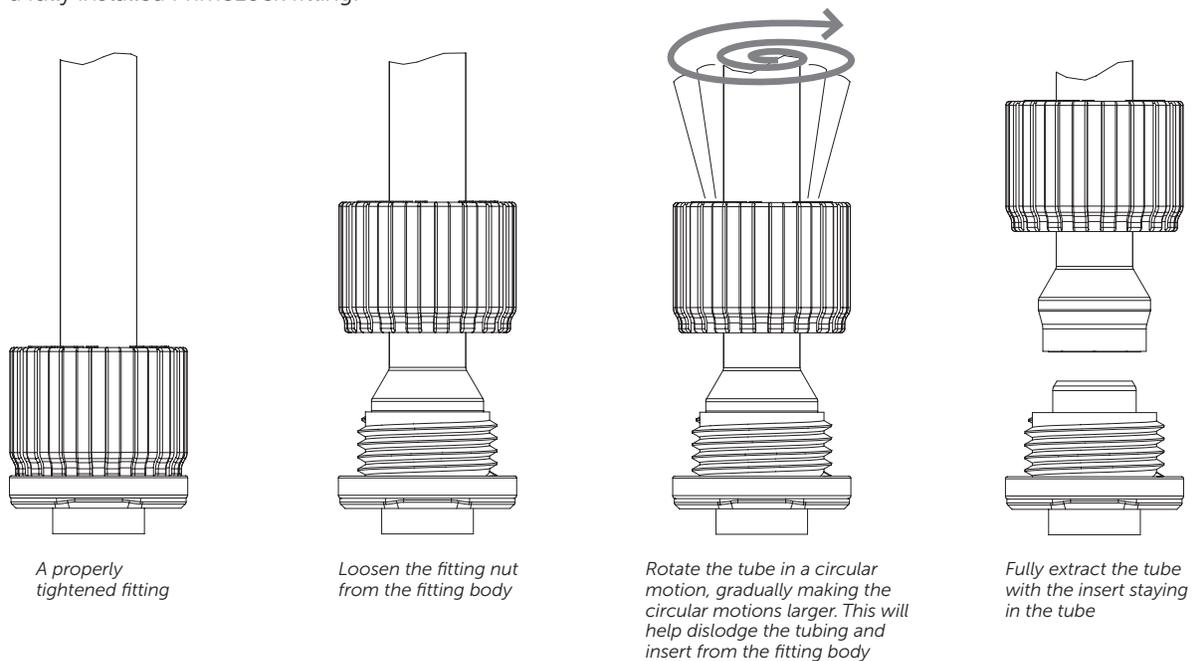
When reassembling the fitting, tighten the nut an additional ¼- to ⅓-turn beyond the initial tightening position, or until a leak-free seal is made.

## FITTING DISASSEMBLY

Care must be taken when disassembling PrimeLock fittings. Follow these instructions precisely to avoid fitting disassembly issues.

As shown in the example below, rotate the tube in a circular motion and slowly extract the tube with the insert from the nose of the PrimeLock fitting. If the tube is not rotated, the insert may disengage from the inside of the tubing and remain on the nose of the fitting.

Follow these steps to properly remove the tube from a fully installed PrimeLock fitting:



If the insert remains on the nose of the PrimeLock fitting, carefully remove the insert without damaging the fitting nose and discard. Install a new insert into the tube. Reusing a PrimeLock insert may cause sealing issues.

## PRIMELOCK INSERT INSTALLATION TOOLS

A complete set of tools is available on our website. Please visit PrimeLock Accessories on [www.entegris.com](http://www.entegris.com).

#### FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](http://entegris.com) and select the Contact Us link to find the customer service center nearest you.

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