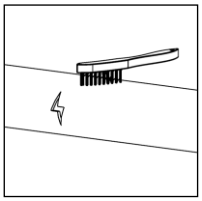
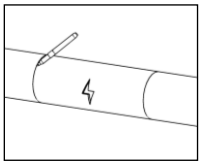
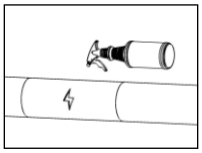
# Installation Instructions
## 244 & 247 Full Circle® Repair Clamps
## See Reverse for 245, 246, & 248 Clamps



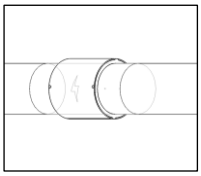
**STEP 1**
Thoroughly clean the pipe where the clamp will be installed. Be sure to remove any scale, dirt, or debris that could affect the gasket seal.



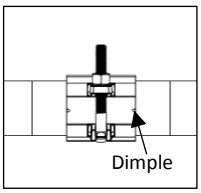
**STEP 2**
Mark the pipe in both directions a measured distance from the center of the break or damaged area.



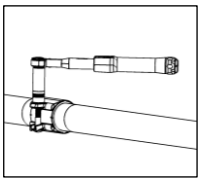
**STEP 3**
Back off nut, disengage bolt head from lug and open clamp enough to install the band assembly on the pipe. Note: For optimum product performance, the fitting should be lubricated with a suitable lubricant.



**STEP 4**
Remove the gasket cartridge from the band assembly, open at split and snap around pipe. Center gasket over leak. Gasket split should be 180° from damage




**STEP 5**
Center bridge plate as shown in image by rotating band assembly so the location dimples are centered between the open and closed lugs. Engage bolt head in open lug.



**STEP 6**
Tighten the nut sufficiently to stop leak using recommended torque values listed below.
**NOTE**: Use of a calibrated torque wrench is recommended!

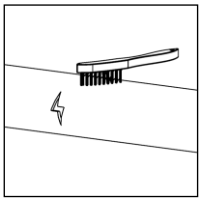
| Recommended Torque Values | |
|---|---|
| **Bolt Size** | **Torque** |
| 3/8” | 25 ft-lbs |
| 7/16” | 30 ft-lbs |
| *Do not exceed recommended torque* | |

| Notice for Full Breaks |
|---|
| DO NOT USE 244 OR 247 FOR JOINING PIPE ON GAS LINES |
| When used to repair or connect separated pipes, the 244 clamp can act as an insulator. Where conductivity is required in installations (such as electrically grounded power or corrosion protected systems), a jumper wire may have to be installed, connecting the two pipes together. When a jumper is required, it should be installed meeting all applicable electrical codes. |

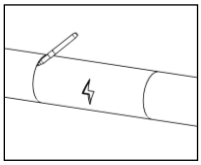

**THIS PRODUCT DOES NOT RESTRAIN PIPE MOVEMENT. Proper anchoring is required to prevent pipe pull out. Failure to anchor or improper anchoring can result in dangerous pipe content escape, property damage, serious injury, or death. Refer to smith-blair.com for products designed to restrain axial pipe movement. Read the product installation instructions prior to installing this product.**

**SEE SHEET 2 FOR WARRANTY AND NOTICES**

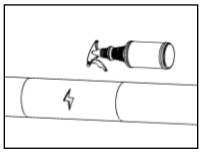
# Installation Instructions
## 245, 246, & 248 Redi-Clamps
## See Reverse for 244 & 247 Clamps



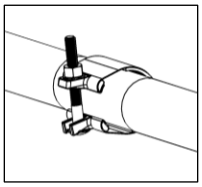
**STEP 1**
Thoroughly clean the pipe where the clamp will be installed. Be sure to remove any scale, dirt, or debris that could affect the gasket seal.



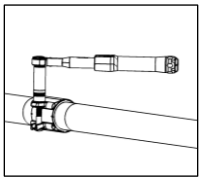
**STEP 2**
Mark the pipe in both directions a measured distance from the center of the break or damaged area.



**STEP 3**
Back off nut, disengage bolt head from lug and open clamp enough to install the band assembly on the pipe. Note: For optimum product performance, the fitting should be lubricated with a suitable lubricant.



**STEP 4**
Install on pipe, making certain leak location is centered on, and properly covered by gasket. Use reference marks from Step 2 for aligning axially. Engage bolt head in open lug.



**STEP 5**
Tighten the nut sufficiently to stop leak using recommended torque values listed below.
**NOTE**: Use of a calibrated torque wrench is recommended!

| Recommended Torque Values | |
|---|---|
| **Bolt Size** | **Torque** |
| 3/8” | 25 ft-lbs |
| 7/16” | 30 ft-lbs |
| *Do not exceed recommended torque* | |

### WARRANTY

Smith-Blair® warrants its products only against defects in materials and workmanship. Smith-Blair’s liability and customer’s exclusive remedy under this warranty or any warranty extends for a period of one (1) year from the date of Smith-Blair’s ship date and is expressly limited to repayment of the purchase price, repair, or replacement, at Smith-Blair’s option, during said period, upon proof satisfactory to Smith-Blair® and upon customer’s returning and prepaying all charges on such products to factory or warehouse designated by Smith-Blair.
This warranty is made expressly in lieu of all other warranties, expressed, implied or statutory, with respect to quality, merchantability or fitness for a particular purpose.

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### NOTICE

Metal products are subject to corrosion, particularly when used outdoors and/or underground. A large number of factors and local conditions affect the rate of corrosion. Consult a local corrosion expert to determine the life expectancy of this product when used with your pipeline content, soil, and environment. Also, consult your system designer to determine the suitability of this product in your piping system. Failure to determine the suitability of this product in your application, soil, and/or environment can result in premature product failure. Smith-Blair® will provide additional information about this product’s material specifications at your request. You may also obtain product information at www.smith-blair.com.

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