

MODEL 3151HD PATCH CLAMP

Quality Control Department SAFETY FIRST - Always use cave-in protection, gloves, sturdy works boots, and eye protection when tapping pipe.



GENERAL NOTES:

- Use cave-in protection during excavation and back-fill operations.
- Verify Pipe O.D. to make certain that the correct Repair Clamp is being installed.
- Keep bolt threads clean and free from nicks, dents or other damage.
- If conditions permit, mark the pipe for a reference point to properly position the clamp.
- Lubrication of the gasket with a soap solution reduces friction and more evenly distributes clamping force. For cold weather lubrication, ethylene glycol can be added to the soap solution to prevent freezing.
- Before start, the installer shall determine the suitability of the product for his intended use and the installer assumes all risk and liability for the application of the product.

OTHER INFO:

- When a gap exist of one inch or more between the ends of the pipe, a small section of pipe or a rolled thin sheet of metal should be formed around the gap to provide support for the gasket and band.
- When a section of the pipe wall equating to 1/3 of the total area to be repaired a rolled thin sheet of metal should be formed over the missing area to provide support for gasket and band.



1 Thoroughly clean the pipe where the clamp will be installed.



2 Loosen nuts to the end of the stud bolt, and place the clamp around the pipe centered over the break or damage area.



3 Once the Patch Clamp is in position, close the ends bringing the bolt head toward the hook of the lug, making both ends to be parallel to each other. Engage all bolt head on the hook of the lugs. Note: Clamp can be assembled aside of the break and then slid over the damaged area only if pipe surface and gasket have been properly lubricated.



4 Smoothly rotate the Clamp and position the bolts and nuts for convenient tightening. Check the reference mark if used.

REPOSITIONING INSTRUCTIONS

If proper torque limit has been reached and you are still experiencing a leak, follow the repositioning instructions below

- Step 1. Loosen nuts until clamp moves freely on the pipe.
- Step 2. Perform steps 3 through 5 again.

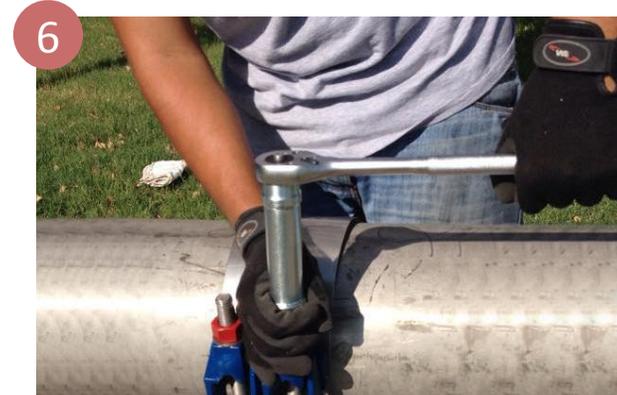
RECOMMENDED TORQUE	
Bolt Diameter	Torque (ft-lb)
5/8"	70-100

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Evenly tighten the bolts working from the center outward and maintain an even gap between bolt lugs to make the gasket evenly compressed. If clamp is multi-panels keep an even gap between lugs.



Allow the gasket to fully compress, and recheck the bolt tightness according to the recommended torque (35-70 ft-lb). It is important to re-torque bolts once clamp is already installed.

PRE-INSTALL CHECKLIST:

DID YOU:

- Clean pipe surface thoroughly? [Y] [N]
- Check O.D. of pipe with measuring tape? [Y] [N]
- Lubricate the Pipe with Dishwashing Soap? [Y] [N]
- Verify Proper Torque Required? [Y] [N]
- Bring the proper equipment required to support the valve during the tap? [Y] [N]

WARRANTY CHECKLIST (*):

- Date of Installation __/__/__
- Time of Installation _____ [AM] [PM]
- Was Pre-Tap Pressure Test completed to appropriate pressure level? [Y] [N]
- What Pressure was it tested to? ____ psi
- (PowerSeal recommends torquing in 25 ft-lb increments) * Torque Applied: _____ ft-lbs
- Was standard re-torquing applied 5 minutes after reaching torque requirements? [Y] [N]
- Was an even gap between top and bottom shell maintained while torquing the nuts in sequence? [Y] [N]
- Was the Valve Supported During Installation? [Y] [N]

If so, with what was it supported by? _____

• Signature of On-Site Leadman: _____

*** Must be completed on day of installation to Validate Warranty**