INSTALLATION SHEET - HDPE

MODEL 3121AS-PE, 3122AS-PE

PowerSeal PIPELINE PRODUCTS CORPORATION

Quality control department **SAFETY FIRST** - Always use cave in protection, gloves, sturdy work boots and eye protection when tapping pipe

GENERAL NOTES:

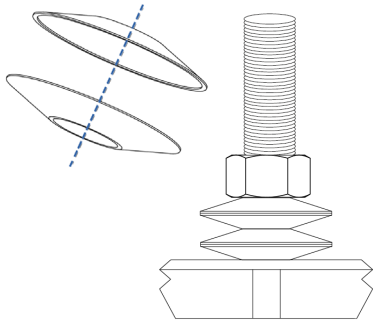
- It is recommended that fittings be installed on HDPE when pipe is at its coldest temperature.
- Use cave-in protection during excavation and back-fill operations.
- Verify Pipe O.D. to make certain that the correct Repair Clamp is being installed.
- Keep bolt threads clean and free from nicks, dents 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:

- **FOR SS BOLTS:** To avoid galling during installation, the threads MUST BE KEPT CLEAN AND FREE FROM DAMAGE. The fitting should not be thrown around or otherwise be abused, i.e. stored on truck without box, dropped from top of ditch, etc. A deep socket and ratchet wrench is recommended.
- 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.



RECOMMENDED TORQUE	
Bolt Diameter	**Torque (ft-lb)**
½”	50-70
5/8”	50-70
¾” HD	140

2

Loosen nuts to the end of the stud bolt, and place the clamp around the pipe centered over the break or damage area with the gasket flap at the top.

Waterworks pipes can experience changes due to temperature and pressure depending on the field conditions. High-Density Polyethylene Pipe (HDPE) possess mechanical and thermal properties that causes the expansion or contraction of the pipe because of these changes. Repair clamps with spring washers design will support those possible pipe changes without compromising the tightness of the repair clamp.

3

Tuck the gasket flap in place, close the bolt lug, engage the centermost bolt(s) and finger tighten. NOTE: using the palm of your hand, squeeze the end of the clamp fingers and the top of the stud lug to bring stud bolt and fingers parallel.

4

Rotate the clamp to flatten the tapered-end of the gasket, and position the bolts and nuts for convenient tightening. Check the reference mark (if used).

REPOSITIONING INSTRUCTIONS

If initial installation of the clamp does not satisfactorily seal the leak then repositioning may be necessary.

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

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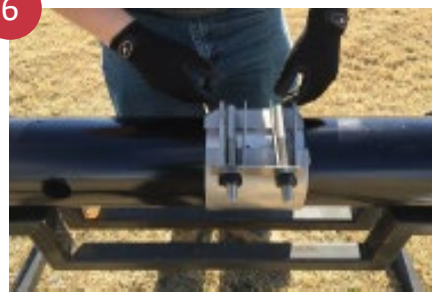
5

Evenly tighten the bolts working from the center outward. Maintain an even gap between bolt lugs when installing multi-panel repair clamps.

6



Allow the gasket to fully compress, and recheck the bolt tightness. It is important to re-torque Tapped Repair clamps when used as a "hot tap" saddle after the tap has been made. Torque the bolts as evenly as possible:

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-torqueing 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**

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