



INSTALLATION INSTRUCTIONS

Quick Sleeve® Wide Range Bell Joint Repair PATENT PENDING

Step 1. Prepare pipe surface by thoroughly cleaning surface of all rust, dirt, scale, and debris. Verify that the sleeve is the proper diameter for the main pipe on which it is to be installed. Use a pipe outside diameter (OD) tape to confirm main pipe diameter (See Fig. 1). Verify that the pipe to be repaired has the structural integrity to withstand the fitting's mechanical forces. Consult with a piping engineer if needed.



Fig. 1



Fig. 2

NOTE: REMOVE OR GRIND OFF ANY RAISED LETTERING PRESENT ON PIPE SURFACE THAT MAY INTERFERE WITH GASKET SEALING.

Step 2. Verify sealing surface is free of debris prior to installation. De-scale pipe surface. Lubricate the pipe surface, all gasket surfaces, and upper and lower sleeve sealing surfaces (see Fig.2-4), with NSF 61 Approved Pipe Joint Lubricant.



Fig. 3



Fig. 4

Step 3. Fit the large rubber gaskets onto the pipe. Ensure gasket groove is facing inward (if applicable) and verify the gasket opening is facing vertically down (See Fig. 5 and 5a).

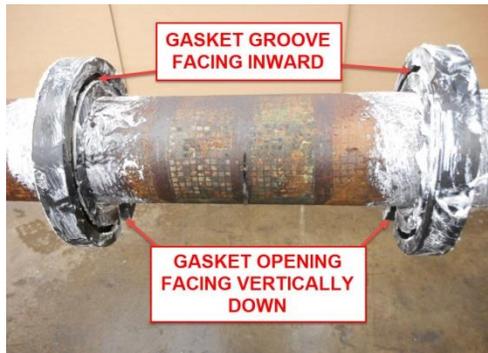


Fig. 5



Fig. 5a

Step 4. Set the top half of the fitting, ensuring the rubber gaskets are fully seated inside the gasket grooves. Insert a longer starter bolt on each side of the fitting. (See Fig.6)



Fig. 6



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Step 5. Raise up the lower half and install the nuts onto the starter bolts. Draw up the lower half by tightening the starter bolts evenly. Once the fitting halves have been drawn together, install the remaining bolts. See Fig. (7-8)

Note: When mating upper and lower halves together, verify the ends with matching yellow markings are mating. (See Fig 9)

Step 6. Using a torque wrench, tighten and torque the bolts evenly to the torque specified on the product label. Starting from the center and moving outwards in a crisscross pattern. The upper and lower halves may become metalbound (ironbound). (See Fig. 10)



Fig. 7



Fig. 8



Fig. 9



Fig. 10

Step 7. Install provided test plugs or valves to completely seal unit. Verify no leaks are present.

Step 8. Backfill carefully around the fitting to prevent fitting or coating damage, and to provide earth support. If coating becomes damaged, touch up with and epoxy coating.

INSTALLATION NOTES

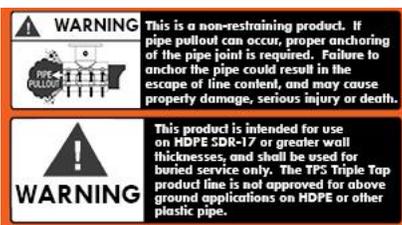
Note 1: Refer to individual product label for actual pressure rating. Pressure rating will never be greater than Pressure rating of main pipe.

Note 2: Maximum Fitting Operating Temperature: See Product Label

Note 3: Use of a pipe diameter (PI) tape is strongly recommended to verify main conductor pipe diameter prior to final installation.

Note 4: Nut Size is 1-1/16 across flats. Use of appropriate socket wrench is recommended. Pneumatic/Air powered tools may be used to torque bolts as long as tightening sequence and multistage torque application steps are followed.

Note 5: Extra Long deep well socket available from TPS to aid in installation.



****FOR HDPE PIPE, WALL THICKNESS MUST BE DR 17 OR THICKER****

*****SEE PRODUCT LABEL FOR TORQUE RATINGS, APPROVED LINE CONTENT, AND TEMPERATURE RATINGS.**

TOTAL PIPING SOLUTIONS, INC.
1760 Haskell Road
P. O. Box 525
Olean, NY 14760
(716)372-0160

www.tps.us