

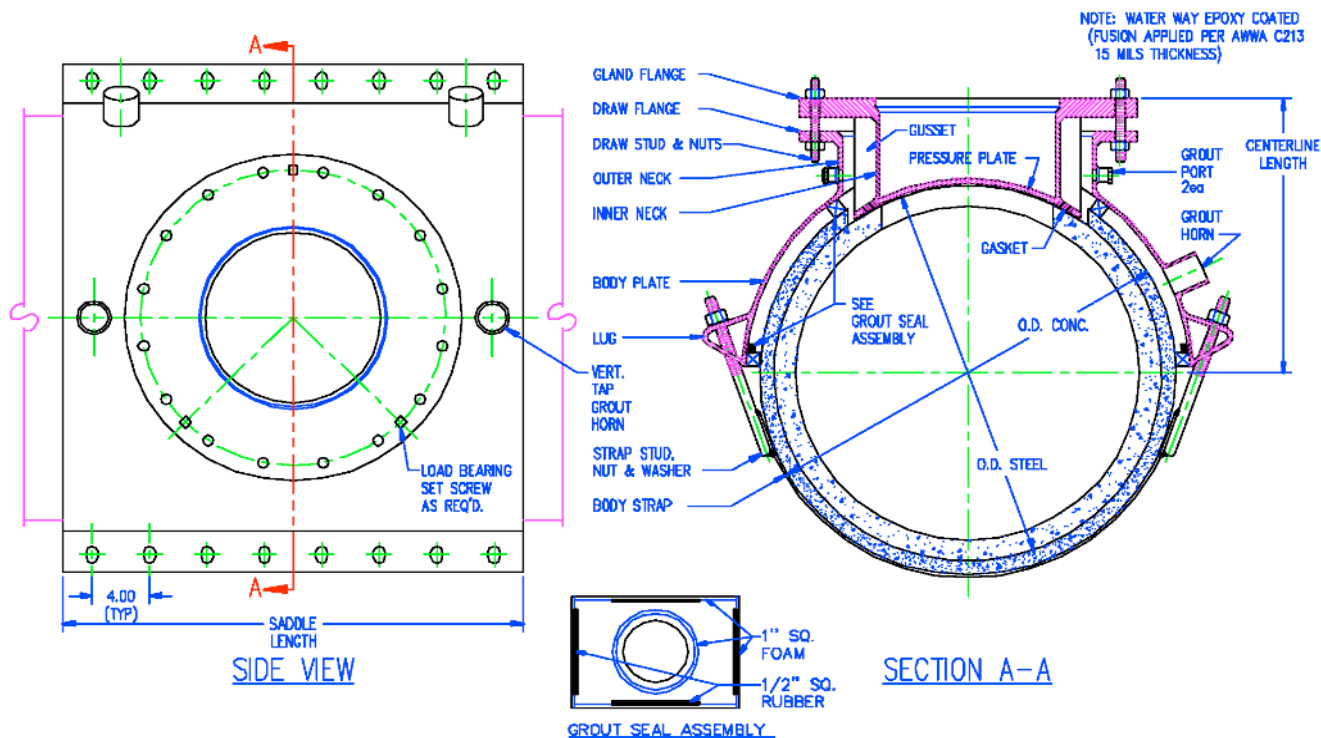
JCM INDUSTRIES

Installation Instructions

JCM 116 Repair Sleeve for PCCP/ Concrete Steel Cylinder Pipe

Read instructions before starting installation*

For purposes other than water, contact JCM Industries for application and product assistance.



1. Clean pipe in area where sleeve is to be installed. Remove any irregularities extending beyond the normal contour of the pipe surface. Check all measurements to be certain sleeve is correct size for the pipe.
2. Position gland over the damaged area on the pipe and mark area where mortar coating is to be removed.
3. Remove gland and set aside. Carefully remove mortar coating from area where repair is to be made - exposing but not further damaging the prestress wires and steel cylinder.
4. Check to make certain all grout gaskets are in place around the edge of the sleeve and around the outlet. Place the sleeve on the pipe with the outlet over the opening in the mortar coating and install the straps. Tighten the straps with only sufficient torque to lightly seal the grout gaskets, alternating from one side of the sleeve to the other - starting at the outside straps and working in toward the center.
5. Move the grout horn caps to grout horns which are not vertical. Pour cement grout into the grout horns in the sleeve filling the space between the sleeve and the pipe. Pound the sleeve with a hammer to vibrate grout into place. After the grout has set, tighten bolts on straps to the following torque values:

Sleeves through 42" nominal size:

70 - 90 Ft/Lbs

Sleeves sizes 48" and larger:

95 - 125 Ft/Lbs

(Torque levels based on clean and lightly lubricated threads.)

Continued

*Ensure fitting is suitable for application (confirm size, materials, pressure ratings, line content, meets local governing & association standards, etc.). Pipeline operation forces, including pressure fluctuations, thermal expansion/contraction, movement/shifting, etc. will influence the success of the application. Proper anchorage, restraint, harnessing, thrust blocks or other devices must be provided to prevent pipe movement (lateral, angular, axial) or pipe pullout from the bolt-on fitting. Inspection of the pipe integrity is the responsibility of the end user. JCM recommends the use of calibrated torque wrench. Failure to follow installation instructions will result in voided product warranty



Compliant to
NSF/ANSI/CAN 61
& NSF/ANSI 372

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For application review or questions contact JCM Industries at 1-800-527-8482, 903-832-2581



Installation Instructions

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6. Carefully cut and remove the exposed prestress wires to provide clearance for the gland to seal against the cylinder. For embedded cylinder pipe, the outer portion of the concrete core must be removed to expose the cylinder. Clean steel cylinder surface of any remaining concrete. (Note: If there is a weld seam on the cylinder of the pipe in the area of the tap, carefully flatten the weld so that the repair gland will seal on it.)
7. Check the gasket in the gland to make certain it is undamaged and in its retaining groove. Remove any tape used to secure gasket in place during shipment.
8. Install the four (4) threaded studs in the sleeve outlet to assist in properly aligning the gland. Install the gland in the sleeve outlet so the contour of the gasket seat exactly matches the contour of the steel cylinder. Install the remainder of the draw bolts. Check the gasket seat alignment. Tighten the draw bolts evenly to compress the gasket onto the steel cylinder.
9. After installation of the repair gland, tighten the load bearing set screws located between the draw bolts of the outer bolt circle. This locks the gland in place and transfers any loading from the outlet onto the sleeve and away from the cylinder.
10. On completion of the repair, pour cement mortar (2 parts sand, 1 part cement) into the opening between the gland and the saddle and into the grouting hole in the sleeve neck completely filling the space around the gland. A protective coating of cement mortar concrete to a minimum thickness of 1" over the entire assembly including straps will further protect the sleeve.