

### Models 230/231 HDPE Pipe Stiffener Inserts

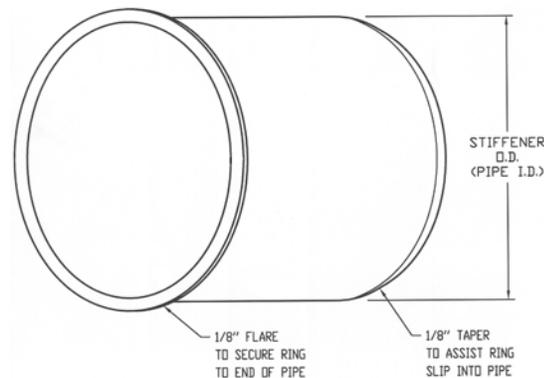
#### Read instructions before starting installation\*

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

1. Clean and scrape pipe. Remove any scale, pipe wrap, debris or dirt that may interfere with the complete sealing of the gasket of the mechanical fitting to be installed. \*Prepare pipe ends, measure I.D. of pipe to verify correct size stiffener. Stiffener outside diameter will be measurements provided when ordered or equal to the HDPE Manufacturers published average inside diameter of the pipe. Confirm the proper size and length of the stiffener.
2. To ease installation, the stiffener should be lubricated with water or soapy-water. **DO NOT USE PIPE LUBRICANT.** Place the **TAPERED END** of the stiffener into pipe end. Insert stiffener into the pipe until the **1/8" Flared End** securely catches the pipe end. To firmly insert the stiffener so that the Flared End runs home, gently tap the flare face with a rubber hammer or lay a flat piece of wood across the diameter of the stiffener and tap with a heavy object.
3. For applications joining HDPE to HDPE with a bolted fitting, insert JCM stiffener into the ends of pipes to be joined and proceed with fitting installation per instructions. Review bolted fitting instructions for any special notations concerning use of mechanical fitting on high density polyethylene pipe.

\*In applications where HDPE pipe end has been cut and the I.D. has closed or "necked down", installation can be eased by taking a knife and beveling the I.D. of the pipe to open the I.D. to allow insertion of the stiffener.

JCM 230/231 Pipe Stiffeners are designed for use with mechanical couplings, clamps and fittings where stiffening of the pipe is necessary for proper gasket seal. Caution needs to be taken to prevent (1) shear loading on the joint, (2) migration of the stiffener out of the end of the pipe from lack of a back load on stiffener rim or load on the stiffener.



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\*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.

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