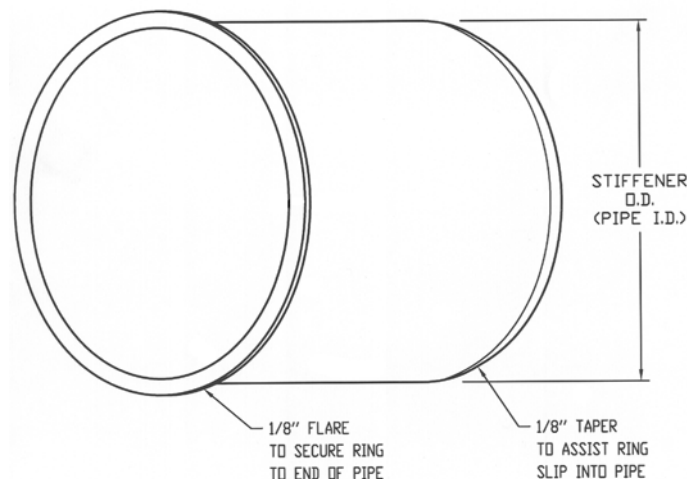


#### JCM 230/231 High Density Polyethylene Pipe Stiffener Inserts Installation Instructions

1. Clean pipe ends the distance back equal to the length 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 equal to the HDPE Manufacturers published average inside diameter of the pipe.
2. Inspect pipe surface where mechanical fitting will be installed. Make sure there are no gouges, bumps or areas that will interfere with the gasket seal.
3. Place the Tapered End of the stiffener into pipe end . To ease installation, the stiffener can be lubricated with water or soapy-water. DO NOT USE PIPE LUBRICANT. 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.
4. For application joining HDPE to HDPE, insert JCM stiffener to other end of pipe to be joined and proceed with fitting installation per instructions. Review 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 bevel 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.



INT230/231-0702



### New, Advanced Design Provides...

- Corrosion Resistance
- Rigid Reinforcement of Pipe Wall for Pipe Connections
- Accurate Pipe I.D. Sizing maintains proper Outside Diameter
- 1/8" Tapered Insert End provides for Easy Installation
- 90° 1/8" Flared End Secures Stiffener to End of Pipe
- Positive Reinforcement without interference of Pipe Joint

JCM HDPE Pipe Stiffeners are designed to support the interior wall of HDPE for critical pipe joining applications. Recommended for all pipe end connections utilizing mechanical bolt-on fittings, the JCM 230/231 Pipe Stiffeners support the pipe's end and controls the "necking down" reaction to the pressure applied during normal installation of fittings used in pipe joining applications.

The JCM 230/231 HDPE Pipe Stiffeners are formed of stainless steel, 304 or 316 material is available, to the HDPE manufacturers published average Inside Diameter (I.D.) of the specific size and SDR of the HDPE. This accurate formation provides for ease of installation and maintains the proper outside diameter for a successful, trouble free application that provides long-term service.

JCM 230/231 Pipe Stiffeners are readily available for both Steel Size and Ductile Iron Size HDPE:

SDR11, 13.5, 17, 21, 26, 32.5

JCM 230/231 Pipe Stiffeners Material Specifications: ASTM - 240 - TP 304 Stainless Steel or 316 Stainless Steel, available in sizes 4" and larger.

Note: JCM recommends fusion joints as a primary method of connection. Mechanical fittings are a secondary and limiting choice. See JCM Fittings and Fabrications Designed and Engineered for HDPE Book, Page 3 - General Application Information. 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. Applications in which pipe may move out of the fitting, correct anchorage of the pipe must be provided.