



PSX: DIRECT DRIVE

Providing products and services that protect our planet's clean water supply.

PSX has always set the standard for watertight pipe-to-structure connections. **PSX: Direct Drive™** offers all of the sealing and durability advantages of PSX, combined with easy installation and adjustability. Using all stainless-steel components and polyisoprene rubber, PSX: Direct Drive is stronger than ever, and the unique adjusting mechanism makes installation simple.



The PSX: Direct Drive Difference

PSX: Direct Drive uses a simple all stainless steel adjuster. From outside the manhole, a small, pre-set torque wrench ratchets around the adjuster nut, opening both sides of the sleeve quickly and evenly. The breakover design wrench signals when the proper torque is reached, fully compressing the rubber against the manhole opening. Both cored and cast holes can now have the benefit of PSX sealing with the ease of wrench adjustability; the best of both worlds.

PSX: Direct Drive Advantages:

- * Installs quickly and easily from outside the manhole
- * Requires no retightening or adjustment before shipment/installation
- * All stainless-steel components - No plastic wedges to crack or break
- * Easily accommodates hole size variation



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PRODUCT SPECIFICATIONS

PSX: Direct Drive meets and/or exceeds all requirements of ASTM C-923, including physical properties of materials and performance testing. Performance testing includes:

- * 13 psi in straight alignment
- * 10 psi at minimum 7° angle
- * 10 psi under shear load of 150 lbs/in. pipe diameter

PSX: Direct Drive meets and/or exceeds the following specifications:

- * ASTM C-923 Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals.
- * ASTM C-1478 Standard Specification for Storm Drain Resilient Connectors Between Reinforced Concrete Storm Sewer Structures, Pipes and Laterals.
- * ASTM C-1244 Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.

APPLICATIONS

- * Sanitary sewers
- * Storm sewers
- * Septic tanks
- * Valve vaults
- * Lift and pump stations
- * Commercial vaults
- * Circular or straight-wall structures

PIPE INSTALLATION

1. Clean pipe and boot to ensure no dirt or foreign materials are present.
2. Clamping surface on pipe must be clean and smooth.
3. Center pipe in opening and insert until pipe breaks the inside plane of manhole.
4. Attach take-up clamp(s) and stagger screw(s) of clamp(s) around the groove of the gasket so that take-up pressure will be equalized. Make sure each clamp is completely in the correct groove.
5. Using a torque ratchet or torque wrench, gradually tighten all screw(s) of clamp(s) in an alternating pattern to 60 lbs/in. torque.
6. After reaching 60 lbs/in. torque on final screw, check all screws again to ensure compression of all clamps.
7. Vacuum testing shall be conducted in accordance with ASTM C-1244-02.
8. Adjust pipe to line and grade. Use proper bedding, backfill materials, and techniques so that pipe deflection and deformation are minimized. Installation of the concrete structure shall be such that differential settlement between the structure and the pipeline shall be less than 10% of pipe diameter for pipes less than 20" and shall be less than 5% of pipe diameter for pipes between 20 and 60 inches in diameter.
9. Any pipe stubs installed in the manhole must be positively restrained from movement per ASTM-C923. Press-Seal Gasket is not responsible for failure due to unrestrained pipe stubs for future connections.

Why Specify PSX: Direct Drive

PSX: Direct Drive is the pipe-to-structure connector that finally satisfies all critical design and performance requirements: rugged construction of the adjuster and band; superior strength and toughness of polyisoprene rubber; and the proven sealing performance of PSX. It's the one adjustable connector that doesn't make you compromise sealing for convenience or price: **PSX: Direct Drive**.

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