

PSX: NYLO DRIVE™

PIPE TO MANHOLE & TANK CONNECTOR



Expansion mechanism at bottom is for display purposes only. Press-Seal recommends installation between a 10:00 and 2:00 position.



What It Is

The PSX: Nylo Drive™ is a high-performance flexible pipe-to-manhole connector that offers easy installation and long-term performance in one convenient product.

Whether you core or cast your holes, PSX: Nylo Drive fits right into your production methods, ready to seal your toughest applications every time.

How It Works

- The connector fits into a cast or cored hole.
- A power sleeve made from reinforced nylon polymer with stainless steel threaded inserts embedded in the expansion mechanism expands with a certified installation wrench.
- Take-up clamps made from series 304 stainless steel with quick adjusting screws secure the connector to the pipe.

Where To Use

- Manholes
- Wet wells
- Square pump and lift stations
- Stormwater structures
- On-site treatment structures
- Junction chambers
- Grease interceptors



Why It's Better

- Safely install from outside of the manhole preventing falls from crawling down into structures.
- Expansion mechanism components are made entirely of stainless steel threads.
- Precision molding provides accurate compensation for hole size variations.
- Additional torque and multiple adjusters on larger diameters.
- Contractor can save time and money by backfilling immediately.

All connectors are made with either EPDM or ISOPRENE rubber which meet ASTM C-923. Connectors are available in NITRILE rubber upon request. Contact your territory manager for more information

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SUBMITTAL SPECIFICATIONS

Pipe-to-Manhole and Structure Connector Specification for Sanitary and Storm Sewer Applications:

All pipe-to-manhole and structure connections shall meet and or exceed ASTM C 923, Standard Specification for Resilient Connectors Between Reinforced Concrete Manholes, Structures, Pipes and laterals.

All mechanical devices, including castings, bolt assemblies, adjusters shall use non-magnetic 300 series stainless steel with no welds or rivets in its assemblies.

If thermal plastic internal expansion rings are used, they must be heavy duty automotive grade material molded in one piece with an expansion installation mechanism made of a stainless steel threaded insert (not steel to plastic threads) and embedded as part of the expansion mechanism. Multiple plastic parts as part of the expansion mechanism are not allowed.

The installation of the connector shall be accomplished at one time and shall require no additional adjustments or installation at a later time to ensure a watertight seal.

Take up clamps shall use non-magnetic 304 series stainless steel and be installed in the field using a T-Handle Torque wrench set to 60 inch-pounds and installation shall follow manufacturer's instructions.

The connector shall be PSX: Direct Drive and PSX: Nylo Drive as manufactured by Press-Seal Corporation of Fort Wayne, IN or approved equal.

Product Performance

Nylo Drive™ meets or exceeds the all requirements of the following specifications:

- ASTM C 923 - Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals
- ASTM C 1244 Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test
- ASTM C 1478 - Standard Specification for Storm Drain Resilient Connectors Between Reinforced Concrete Storm Sewer Structures, Pipes, and Laterals
- ASTM F 2510 Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures and Corrugated High Density Polyethylene Drainage Pipes

Best Practices

1. Vacuum testing shall be conducted in strict conformance with ASTM C 1244, prior to backfill.
2. Pipe Stubs must be restrained from movement per ASTM C 923.
3. Tightening of the external stainless steel take-up clamps should be done by using a torque-setting wrench available from Press-Seal Corporation.



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Phone: 800-348-7325
Fax: (260) 436-1908

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Email: sales@press-seal.com
Web: www.press-seal.com

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SELECTION GUIDE

| NYLO DRIVE™ SIZE and DESCRIPTION | HOLE SIZE | PIPE O.D. ACCOMMODATION RANGE (INCHES) | GASKET I.D. (INCHES) | TAKE-UP CLAMP* | |
|---|-----------------------------------|---|-------------------------|----------------|---------|
| | | | | QTY | PART # |
| REQUIRES BLACK SHORT 7/16" TORQUE WRENCH PRESET TO 12 FT/LBS PART #850.605 | | | | | |
| 11-06 NYLO DRIVE™ | 11" 11.00-11.20" 279-284 mm | 5.70" - 6.90" 145 - 175 mm | 6.30" 160 mm | 1 | 600.128 |
| 11-08 NYLO DRIVE™ | 11" 11.00-11.20" 279-284 mm | 8.00 - 8.50" 203 - 216 mm | 8.44" 214 mm | 1 | 600.152 |
| 12-06 NYLO DRIVE™ | 12" 12.00-12.20" 305-310 mm | 5.70" - 6.90" 145 - 175 mm | 6.30" 160 mm | 1 | 600.128 |
| 12-08 NYLO DRIVE™ | 12" 12.00-12.20" 305-310 mm | 8.00 - 8.65" 203 - 220 mm | 8.44" 214 mm | 1 | 600.152 |
| 12-08.A NYLO DRIVE™ 12M NYLO DRIVE™ | 12" 12.00-12.20" 305-310 mm | 8.00 - 9.10" 203 - 231 mm | 8.63" 219 mm | 1 | 600.152 |
| REQUIRES WHITE 9/16" TORQUE WRENCH PRESET TO 30 FT/LBS PART #850.620 | | | | | |
| 16Y NYLO DRIVE™ | 16" 16.00-16.20" 406-411 mm | 10.00 - 11.10" 254 - 282 mm | 10.75" 273 mm | 1 | 600.188 |
| 16L NYLO DRIVE™ | 16" 16.00-16.20" 406-411 mm | 11.36 - 12.50" 289 - 318 mm | 12.10" 307 mm | 1 | 600.232 |
| 16M NYLO DRIVE™ | 16" 16.00-16.20" 406-411 mm | 12.75" 324 mm | 12.75" 324 mm | 1 | 600.232 |

NYLO DRIVE™ INSTALLATION WRENCH INFORMATION

| Item | Installation Sizes | Wrench Part Number | Replacement Wrench Part Number |
|---|-----------------------|-----------------------|--------------------------------------|
| Black Short 7/16 Preset to 12ft.lbs. | 11" - 12" | 850.605 | 850.600H |
| White 9/16 Preset to 30ft. lbs. | 16" | 850.620 | 850.620H |

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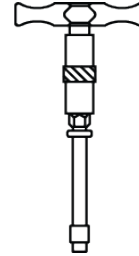
PSX: NYLO DRIVE™

INSTALLATION INSTRUCTIONS

1. Prepare the hole to receive the connector.
 - a. Clean the hole of any debris or loose dirt.
 - b. Examine the hole for any imperfections (bug holes) and wire ends in the gasket bearing surface.
 - c. Patch any voids (bug holes) with patching compound.
 - d. Remove any wire protruding up into the hole and patch with slurry if needed.
2. Select the correct Nylo Drive™ wrench. The wrenches and the adjusters are sized so that only the correct wrench can be used with each size adjuster, and will provide the correct torque. **DO NOT USE ANY OTHER SIZE OR TYPE OF WRENCH TO INSTALL NYLO DRIVE™**
3. Place the Nylo Drive™ connector in the hole with the adjuster mechanism in position so that it will be at the top of the hole (9 to 3 o'clock) in the final installed position of the manhole. Align the connector so that it is square to the hole. Check to make sure the black internal power sleeve is fully within the confinement space.
4. Place the wrench on the adjuster nut so that the arm of the wrench is on the installer's left side. This will ensure that the proper orientation is maintained.
5. Begin to tighten the Nylo Drive™ Connector by pulling the wrench handle toward the outside of the manhole. The wrench will ratchet back easily at the end of the stroke.
6. Continue tightening until proper torque is reached. The wrench will signal this by "breaking" slightly. Re-torque is not necessary prior to shipping with the Nylo Drive™.

ITEMS NEEDED

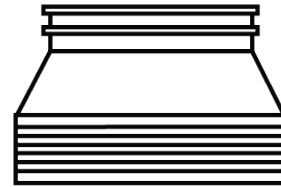
T-HANDLE TORQUE WRENCH



CLAMP



BOOT



HEX WRENCH



TIP: To remove an installed Nylo Drive™ Connector, simply reverse wrench position and loosen Connector. Connector may be reused without further adjustment.



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