

What It Is

PSX:Direct Drive - Nitrile is a high-performance flexible pipe- to-manhole connector that combines easy installation and proven watertight performance with the ability to resist common underground contaminants, including most hydrocarbons and many mixed chemistries

How It Works

PSX:Direct Drive - Nitrile has superior materials and technology

- Specially developed synthetic nitrile rubber is continuously tested and lab-certified
- Power Sleeve made from tempered Series 304 stainless steel
- Installation Mechanism made from Series 300 stainless steel
- Installation Mechanism is infinitely adjustable
- Installation tools are calibrated and certified
- Take-up clamps made from Series 304 stainless steel with quick-adjusting screws

How It Performs

PSX:Direct Drive - Nitrile meets or exceeds all requirements of the following Specifications and/or Test Methods:

ASTM C 923
ASTM C 443 (Oil Resistance)
ASTM C 1244
ASTM C 1478
ASTM F 2510



TYPICAL TEST RESULTS for PSX:Direct Drive - Nitrile (as in ASTM C 923, C 1478, and C 443)			
Test	ASTM Test Method	Test Requirements	Typical Result
CHEMICAL RESISTANCE; 1N SULFURIC ACID and 1N HYDROCHLORIC ACID	D 534, AT 22°C FOR 48 HRS	NO WEIGHT LOSS NO WEIGHT LOSS	NO WEIGHT LOSS NO WEIGHT LOSS
TENSILE STRENGTH	D 412	1200 PSI, MIN.	1403 PSI
ELONGATION AT BREAK	D 412	350%, MIN.	563%
HARDNESS	D 2240 (SHORE A DUROMETER)	±5 FROM THE MANUFACTURER'S SPECIFIED HARDNESS	<2
ACCELERATED OVEN-AGING	D 573, 70± 1°C FOR 7 DAYS	DECREASE OF 15%, MAX. OF ORIGINAL TENSILE STRENGTH, DECREASE OF 20%, MAX. OF ELONGATION	-3% TENSILE CHANGE, -10% ELONGATION CHANGE
COMPRESSION TEST	D 395, METHOD B, AT 70°C FOR 22 HRS	DECREASE OF 25%, MAX. OF ORIGINAL DEFLECTION	10%
WATER ABSORPTION	D 471 IMMERSE 0.75 BY 2-IN. SPECIMEN IN DISTILLED WATER AT 70°C FOR 48 hrs	INCREASE OF 10%, MAX. OR ORIGINAL BY WEIGHT	2.70%
OZONE RESISTANCE	D 1171	RATING 0	PASS
LOW-TEMP. BRITTLE POINT	D 746	NO FRACTURE AT -40°C	PASS
TEAR RESISTANCE	D624, METHOD B	200 LBF/IN (MIN.)	255 LBF/IN.
OIL RESISTANCE	D 471; ASTM IRM 903 AT 100°C FOR 70HRS	80% MAX VOL. CHANGE	-1.9%

Protected by one or more of the following patents: 6805359, 7146689, 7263746

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PSX:DIRECT DRIVE

 NITRILE

OIL-RESISTANT PIPE-TO-MANHOLE CONNECTOR SELECTION GUIDE

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NOMINAL HOLE SIZE	PSX: DD NITRILE SIZE and DESCRIPTION	GASKET I.D. (INCHES)	PIPE O.D. ACCOMMODATION RANGE (INCHES)	TAKE-UP CLAMP		MINIMUM SIZE ROUND STRUCTURE (INCHES)	MINIMUM SPAN/RISE STRAIGHT WALL (INCHES)
				QTY	PART #		
REQUIRES BLACK SHORT 7/16" TORQUE WRENCH PRESET TO 12 FT/LBS PART # 850.605							
8	8 QRS STEP "S" PSX: DD NITRILE	2.20	1.70 TO 2.50	1	600-088	36	16
	8 QRS STEP "R" PSX: DD NITRILE	3.50	2.75 TO 3.75	1	600-088		
	8 QRS STEP "Q" PSX: DD NITRILE	4.60	3.75 TO 4.80	1	600-088		
	8 QRS PSX: DD NITRILE	N/A	1.70 TO 4.80	1	600-088		
12	12Y PSX: DD NITRILE	6.50	5.70 TO 6.90	1	600-128	36	20
	12 M PSX: DD NITRILE	8.63	8.00 TO 9.10	1	600-152		
14	14 M PSX: DD NITRILE	10.35	9.75 TO 11.10	1	600-188	36	22
REQUIRES BLUE 1/2" TORQUE WRENCH PRESET TO 20 FT/LBS PART # 850.610							
16	16 M PSX: DD NITRILE	12.75	12.05 TO 13.30	1	600-232	36	24
18	18 M PSX: DD-2 NITRILE	15.35	14.60 TO 15.50	2	600-296	36	26

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