



PRESS-BOOT Flexible Connector for Pipes and Manholes

Each **PRESS-BOOT** connector consists of three components: a **BOOT**, an **ADJ:EXPANSION RING**, and a **TAKE-UP CLAMP**. **PRESS-BOOT** connectors enable the manhole manufacturer and installation contractor to provide a flexible, watertight connection where pipe enters manhole.

The **ADJ:EXPANSION RING** is mechanically expanded to compress the **BOOT** against the receptacle hole surface in the manhole wall. After adequate compression of the **BOOT** is achieved, the self-locking design of the **ADJ:EXPANSION RING** interlocks to insure against loss of compression. This secures **PRESS-BOOT** in the manhole wall, ready to accept the desired size and type of pipe. Once **PRESS-BOOT** is installed, there is no need to re-tighten the **ADJ:EXPANSION RING** before, during, or after shipment to the jobsite.

When the connector sets the manhole in position to grade, ditch, personnel need only insert pipe through **PRESS-BOOT** and tighten **TAKE-UP CLAMP** to compress the **BOOT** against outside wall of pipe entering manhole.

PRESS-BOOT offers the competitive advantages of the **ADJ:EXPANSION RING**. This patented and unique design offers unmatched flexibility in sealing a wide variation of hole sizes. The **ADJ:EXPANSION RING** is precision-molded of a material with corrosion resistance superior to competitive metallic expansion rings.

The **ADJ:EXPANSION RING** installs quickly and easily, and requires only minimal training of installers. If necessary, the **ADJ:EXPANSION RING** is easily removed and re-installed.

RUBBER GASKET	ASTM TEST METHODS	TEST REQUIREMENTS	TYPICAL RESULTS
Chemical Resistance: 1 N Sulfuric Acid 1 N Hydrochloric Acid	D 543, at 22°C for 48 Hours	No Weight Loss No Weight Loss	No Weight Loss No Weight Loss
Tensile Strength Elongation at Break Hardness	D 412 D 412 D 2240 (Shore a Durometer)	1200 PSI, MIN. 350% Min. ± From the Manufacturer's Specified Hardness	2000 PSI 600% 45
Accelerated Aging	D 573, 70°C for 7 Days -20%, Max. Decrease of Elongation	-15%, Max. Decrease of Original Tensile	-10% Tensile -12% Elongation Change
Compression Set	D 395, Method B, at 70°C for 22 Hours	-25%, Max. Decrease of Original Deflection	-17.0%,
Water Absorption	D 471 Immerse in Distilled Water at 70°C for 48 Hours	+10%, Max. Increase of Original by Weight	+3.5%

Technical Data: Glass Fiber Reinforced Nylon 6/6 TYPICAL PROPERTIES

PROPERTY	ASTM METHOD	THERMOCOMP 40% GLASS FIBER	
Physical			
Specific Gravity	D 792	1.41	
Melt Point (Recin)	D 3418	500	
Water Absorption	D 570	0.6	
Mechanical			
Tensile Strength	D 638	23,000	
Elongation	D 638	4-5	
Flexible Strength	D 790	33,000	FLEXIBLE
Modulus	D 790	1,200,000	
Izod Impact (Unnotched)	D 256	19-22	

PHYSICAL ANALYSIS: Resistance to Chemical reagents, ASTM D-543 - Glass Fiber Reinforced Nylon 6/6

Change in Mass: Fluid for Aging Hydrochloric Acid/48 hours at 22°C.

	Test 1	Test 2	Test 3	Test 4
0.5 N	+0.55%	+0.57%	+0.56%	+0.56%
1.0 N	+0.59%	+0.60%	+0.60%	+0.60%
1.5 N	+0.70%	+0.68%	+0.71%	+0.70%

Change in Mass: Fluid for aging Sulfuric Acid/48 hours at 22°C

	Test 1	Test 2	Test 3	Test 4
1.0 N	+0.70%	+0.64%	+0.67%	+0.67%

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WITH ADJUSTABLE ADJ: EXPANSION RING

**A FLEXIBLE PIPE-TO-MANHOLE CONNECTOR
DESIGNED TO EXCEED
THE REQUIREMENTS OF A.S.T.M. C-923.**

SPECIFICATION FLEXIBLE PIPE-TO-MANHOLE CONNECTOR

A flexible Pipe-to-Manhole connector shall be employed in the connection of the sanitary and drain sewer pipe to precast manholes. The connector shall be PRESS-BOOT as manufactured by Press-Seal Gasket Corporation, Fort Wayne, Indiana, or approved equal. The connector shall be the sole element relied on to assure a flexible, watertight seal of the pipe to the manhole. The connector shall consist of a rubber gasket, an internal expansion ring, and one external take-up clamp.

The rubber gasket section shall be constructed solely of synthetic or natural rubber, and shall meet/exceed the requirements of ASTM C-923, section 4, 4.1, 4.1.1 except that it shall have a minimum tensile strength of 1600 PSI. Minimum thickness of the cross-section shall be 0.275 inches (7 mm).

The internal expansion sleeve shall be made of glass-fiber reinforced nylon and shall have a continuous circumference in all installation positions. The internal expansion ring shall have redundant interlocking teeth to permit its adjustment to multiple installation positions providing adequate compression in a variety of manhole opening sizes. Installation shall be performed using either a hydraulic or mechanical tool available from the connector manufacturer.

The external compression take-up clamp shall be constructed of Series 304 and Series 305 non-magnetic stainless steel and shall utilize no welds in its constructions. The clamp shall be installed by torquing the adjusting screw using a torque-setting wrench available from the connector manufacturer.

Selection of the proper size connector for the manhole and pipe requirements shall be in strict conformance with the recommendations of the connector manufacturer. Any pipe stubs installed in connectors shall be restrained from movement.

The finished connection shall provide sealing to 13 PSI (minimum), and shall accommodate deflection of the pipe to 7 degrees (minimum) without loss of seal. Testing of completed joints, if required, shall be conducted in strict conformance with the requirements of the connector manufacturer.

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