WS WATERSTOP NITRILE PIPE TO MANHOLE & TANK CONNECTOR



Why It's Better

- Nitrile rubber resists most chemicals and hydrocarbons found in effluent and soils.
- The best alternative to solely using mortar joint compound.
- Helps to control exfiltration or infiltration between the connector and the pipe
- Adaptable to a variety of field and installation conditions.
- Can be installed with existing, new or poured-in-place structures.
- Nearly unlimited possibilities for pipe size, style or type.

Where To Use

- Manholes
- Wet wells
- Square pump and lift stations
- Storm water structures
- On-site treatment structures
- Junction chambers
- Grease interceptors
- Round, arch and elliptical pipes

Can be used with corrugated HDPE and plastic pipes with a PVC and manhole sleeve adapter. Contact us for more details.

What It Is

The Nitrile Waterstop is a rubber grouting ring seal that is compressed around the pipe using stainless steel clamps for connecting pipes to manhole structures.

It is then either grouted into an existing structure or has a new structure poured around the pipe with the Waterstop already attached. And helps control infiltration and exfiltration between the connector and the pipe. Our Nitrile Waterstop compound is formulated to resist common underground contaminants including hydrocarbons and many mixed chemistries.

How It Works

- Stainless steel clamps secure the connector to the pipe.
- The connector is placed to follow the arc of the manhole wall and the stainless steel clamp is placed straight across the confinement area.
- The pipe is placed in position and grouted in place using non-shrink patching compound OR
- The pipe is placed in position in the formwork and the structure is poured around it.
- After the mortar or concrete has set, the structure can be backfilled.



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

WATERSTOP NITRILE SUBMITTAL SPECIFICATIONS

Waterstop Grout Ring for Concrete, PVC, Ductile Iron, Other Exterior Smooth Wall Pipes and Corrugated Pipes Using a PVC or Manhole Sleeve Adapter Entering Structures:

- 1. A nitrile Waterstop grout ring shall be employed in the connection of storm water pipes and other nonwatertight applications to precast concrete or poured-in-place structures to control infiltration and exfiltration and to meet the requirements of ASTM D 2321 Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications, Section 7.10-Manhole Connections.
- The nitrile Waterstop connector shall consist of a rubber gasket and an external take up clamp to secure the Waterstop to the pipe before grouting or pouring in place. The rubber Waterstop shall be constructed solely of synthetic or natural rubber and shall meet and or exceed the physical property requirements of ASTM C923, ASTM C 1478, and ASTM F 2510.
- 3. Minimum thickness of the cross section shall be 0.30-inches (7.6mm) and a minimum of 3-inches (76.2mm) in length. The key lock portion shall extend into the concrete a minimum of 1.5-inches (38mm) to provide an adequate anchorage for mortar. Non-shrink grout shall be placed around the entire Waterstop and maintain a minimum thickness of 2-inches (50mm) between the rubber gasket and any existing or hardened concrete to permit proper consolidation around the Waterstop connection.
- 4. The external take-up clamp shall be constructed of Series 300 non-magnetic stainless steel and shall utilize no welds in its construction.
- 5. Selection of the proper size Waterstop and any in field testing requirements shall be in strict conformance with the recommendations of the Waterstop manufacturer. The Waterstop Grout Ring shall be WS-30 Series Waterstop as manufactured by Press-Seal Corporation of Fort Wayne, Indiana or approved equal.

Product Performance

NITRILE WATERSTOP meets or exceeds the Physical Property requirements of the following Specifications:

- ASTM C 923 Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals
- ASTM C 443 (Oil Resistance)
- ASTM C 1619 CLASS D
- 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



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Phone: 800-348-7325 Fax: (260) 436-1908 PRESS-SEAL CORPORATION Protecting Our Planet's Clean Water Supply ISO 9001: Registered - Version 02.09.22.8.50

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