

# TYPE 4G: NITRILE

## CONCRETE PIPE AND MANHOLE GASKETS

### What It Is

The Type 4G Nitrile gaskets were developed to specifically meet the needs of contemporary concrete pipe joint designs, while providing the ability to resist common underground contaminants.

### How It Works

- The gasket is stretched over the spigot.
- The gasket is equalized around the entire circumference of the spigot.
- Bell joint is covered liberally with lubricant.
- Bell and spigot are homed creating a watertight seal.

### Why It's Better

- Optimized profile designs for a variety of joint configurations.
- Accurate profile designs covering a variety of underground contaminant applications.
- Simple installation methods.

### NOTE:

Our Nitrile gaskets offer resistance to common hydrocarbons, please contact your territory manager or customer service representative to learn more.



### Where To Use

- Convenience Stores
- Petroleum Storage Terminals
- Pipeline Terminals
- Refineries
- Auto Dealerships
- Car/Truck Washes
- Airport Ramps or Deicing Facilities
- Manholes
- Wet wells
- Pumps and lift stations



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## SUBMITTAL SPECIFICATIONS

An oil-resistant watertight rubber gasket shall be employed in the connections of concrete pipe for sanitary, stormwater, drainage, or other applications where contaminants are known or suspected.

The gasket shall be NITRILE 4G as manufactured by Press-Seal Corporation, Fort Wayne, Indiana, or approved equal.

The gasket shall be the sole element relied on to assure a flexible watertight seal between pipe connections. The gasket shall consist of a single wedge-shaped rubber element. The rubber compound used shall consist of synthetic nitrile butadiene rubber polymer and shall conform with the sealing and oil-resistance requirements of ASTM C 1619, Class D, ASTM C 443-04 for

Oil-Resistant Gaskets, and CSA 257.3-03 for Oil-Resistant Gaskets .

Each gasket shall be individually identified with a continuous blue or green stripe toward the leading edge of the gasket. This stripe shall be used to positively identify that the gasket is NITRILE 4G and to confirm its proper orientation on the spigot of the pipe.

Selection of the proper size gasket for the pipe requirement, and installation thereof, shall be in strict conformance with the recommendations of the gasket manufacturer. Any testing also shall be conducted in strict conformance with the requirements of the gasket manufacturer.

## Product Performance

NITRILE 4G GASKETS meet or exceed all requirements of the following Specifications and/or Test Methods:

- ASTM C 1619 Class D for Oil Resistant Gaskets
- ASTM C 443 for Oil Resistant Gaskets
- CSA 257 for Oil Resistant Gaskets



Press-Seal believes all information is accurate as of its publication date. Information, specifications, and prices are all subject to change without notice. Press-Seal is not responsible for any inadvertent errors. Copyright 2023.

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

**PRESS-SEAL CORPORATION**  
*Protecting Our Planet's Clean Water Supply*  
ISO 9001: Registered • Version 06.01.23.3.28

Email: [sales@press-seal.com](mailto:sales@press-seal.com)  
Web: [www.press-seal.com](http://www.press-seal.com)

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## INSTALLATION INSTRUCTIONS

### Special notes regarding Nitrile 4G Gaskets

Due to inherent properties of Nitrile gaskets, special considerations are noted:

1. Nitrile gaskets are non-stock items, and they will require 4-8 weeks lead time for production and testing.
2. Nitrile gaskets are higher durometer (harder), increasing pipe insertion forces. This hardness increases rapidly at lower temperatures, requiring special care in low-temperature installations (< 40F/4C).
3. Nitrile rubber may occasionally have slight internal porosity. This is not a defect as long as the material meets all other specification requirements.
4. Required splice testing strain may result in occasional splice breakage when the gasket is installed on the pipe. It is recommended that an additional quantity of gaskets (5 -10%) be ordered and supplied to compensate. In any event, Press-Seal will not be responsible for any consequent delays or damages related to this.
5. Nitrile rubber hardens rapidly with age. Gaskets older than 12 months should be retested before use to ensure their continued suitability.

