

# 1010FR **Flushing Rings**

## **General Instructions**

The SOR 1010FR Flushing Rings are designed to be installed between an instrument and a standard ASME flange and can be used with any flanged, pancake, or inline diaphragm seal. One or two flushing connections allows the buildup that accumulates in front of the diaphragm to be flushed out or vented without disconnecting the device. As the name 'drip ring' implies, the flushing connections can be used to drain piping, take samples, or even bleed a valve.



When used as a calibration ring, a known pressure is applied to one of the flushing connections while the attached instrument is cycled through a calibration routine. The SOR 1010FR Flushing Ring can also be installed without flushing connections as a spacer or to provide heat dissipation.

NOTE: If you suspect that a product is defective, contact the factory or the SOR® Representative in your area for a return material authorization (RMA) number. This product should only be installed by trained and competent personnel.

Design and specifications are subject to change without notice. For latest revision, go to **sorinc.com** 

#### Installation

### **Parts Required for Installation**

- Prior to installation, gather all applicable tools needed to install flange bolts.
- Whenever possible, the same gasket type should be used in between the flushing ring face and the process connection face as the flushing ring face and the instrument face. If a gasket was provided, it may be used once you have verified the gasket material is appropriate for the application.

#### **Installation Steps**

- Make sure to remove any plastic covers on the flushing ring or diaphragm seal, which the flushing ring is being connected to.
- 2 Ensure that a gasket is placed between the instrument connection and flushing ring prior to bolting the components to the tank/pipe.
- If the flushing ring was ordered with flushing connections, ensure the flushing connections are either plugged or sealed before completing the installation.
- **4** Place the washers onto the flange bolts.
- Insert two bolts in the bottom bolt holes of the flange on the instrument connection. Bolts are installed this way to avoid interference with the tank/pipe and to facilitate inspection of bolt material if required.
- **6** Make sure the gasket does not overlap the inside of the instrument's diaphragm weld, as this will cause error in instrument readings.
- If the gasket is not properly installed, process leaks may occur.
- **3** Attach previously installed bolts to process connection and loosely fasten washers and nuts onto the bolts.
- Insert remaining bolts into bolt holes from the instrument side and hand tighten washers and nuts.
- Make sure to tighten each bolt using a cross pattern to guarantee the bolts are evenly tightened during installation. The applicable torque values should be applied with a torque wrench.



Follow ASME PCC-1 latest edition when installing flanged connections.

Do not re-use spiral wound gaskets after installation. New length studs may be required for install. Be sure to follow all applicable standards when choosing studs/nuts.



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