

1010FR Flushing Rings

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. The SOR 1010FR Flushing Rings meet all of your requirements for flushing, calibration, and drip rings.



One or two flushing connections will allow the buildup that accumulates in front of the diaphragm to be flushed out or vented without disconnecting the transmitter. As the name 'drip rings' 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 Rings can also be installed without flushing connections as a spacer or to provide heat dissipation.

Features

Built to Order

SOR leverages our world class machine shop to provide product that meets your exact requirements with the delivery your application demands. Never again feel trapped by off-the-shelf choices or long lead times.

Material Selection

SOR can provide any material your application requires. Standard construction uses carbon steel or 316/316LSST, but Monel, Hastelloy, and other materials are available. If your valves require a different material than the rings, just let us know. SOR can provide your solution.

Installation Flexibility

Whether your design requires the rings to be clamped between the flange and transmitter seal, or you prefer through-holes for on-stud mounting, SOR can provide exactly what you need.

Flushing Connections

SOR can provide the rings with zero, one, or two lateral ports with the flushing connection type you require. SOR can also provide gate, ball, needle valves, or any other valves you specify which can be welded to the rings to eliminate the need for threads entirely.

Universal Fit

The SOR 1010FR Flushing Rings can be designed for compatibility with any transmitter or device on the market, allowing the instrument to be calibrated without needing to remove it or shut down the process.

Sizing Options

SOR offers flange side and diaphragm side transition sizing. This allows a flange of a larger size to be matched to a diaphragm of a smaller size without added material and installation costs. You only need to purchase the SOR Flushing Rings to meet your unique requirements.

World Class Manufacturing

SOR can manufacture your product to meet any standard you require, including ASME, NACE, and ASTM. Inspection reports are provided to meet your requests.

Tagging

Standard Flushing Ring configurations come with 2 lines (23 characters and spaces per line) included for customer specified tagging information at no additional charge. Options selected may limit the space available for tagging; consult the factory for more information

1010FR Flushing Rings

Application Data Sheet

Date _____

Name _____ Phone _____
 Company/Location _____ Email _____
 Customer PO _____ Sales Order No. _____

Design / Construction

Design Pressure _____ Design Temperature _____ Process Media _____
 Ring material of construction Carbon steel 316/316LSS
 Monel 400 Hastelloy C276 Other _____ (please specify)

Ring Connections

Instrument side flange size 0.5 inch 0.75 inch 1 inch 1.5 inches 2 inches
 3 inches 4 inches Other _____ Metric _____
 Instrument side flange configuration Raised Face Ring Type Joint Flat Other _____
 Process side flange size 0.5 inch 0.75 inch 1 inch 1.5 inches 2 inches
 3 inches 4 inches Other _____ Metric _____
 Process side flange configuration Raised Face Ring Type Joint Flat Other _____
 Flange class 150 300 600 900 1500
 2500 Other _____ Metric _____
 Flange Finish (min) 125-250 (Standard) 250-500 AARH Other _____

Flushing Ports

Number of flushing connections 0 1 2 Other _____
 Orientation of ports Standard (symmetrical) Custom _____
 Flushing connection type NPT BSPT BSPP CPI A-LOK
 Socket weld Butt weld Other _____ (please specify)
 Flushing connection size Inches: 0.25 0.5 0.375 1 Other _____
 Millimeters: 6 10 12 16 Other _____

Valve

Valve type Gate Ball Needle
 None Other _____
 Valve material Carbon steel Stainless Steel
 Other _____
 Fire Safe Yes No

Options

Options NACE Captive Studs
 Certificate of Compliance
 Inspection and Testing Certificate
 (If this option is selected, please fill out
 Inspection and Testing Certifications
 form on next page.)

Customer specified tagging _____
 Additional requirements _____

SKETCH RINGS or APPLICATION HERE



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

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Inspection and Testing Certifications

- No testing or test documentation required.

- PMI Report**
 - SOR Standard** Alloy verification of wetted parts using x-ray fluorescence (XRF) technology to positively identify the part material used post manufacturing.
 - Customer specified alternate requirements_____
- Hydrostatic Pressure Test**
 - SOR Standard** Process conforms to ASME Section V and is conducted per serial number. If valves are used, hydro testing will be done with valve open and ports plugged.
 - Customer specified alternate requirements_____
- Visual Inspection Report**
 - SOR Standard** Visual weld inspection by certified weld inspector per sales order line item.
 - Customer specified alternate requirements_____
- Factory Acceptance Test**
 - SOR Standard** Summary of testing schedule completed per sales order line item.
 - Customer specified alternate requirements_____
- Inspection Test Plan**
 - SOR Standard** Summary of all the testing processes that will be conducted per sales order line item.
 - Customer specified alternate requirements_____
- Mill Test Report**
 - SOR Standard** Certifies that the listed serial numbers were manufactured using the materials on the associated Certified Material Test Reports (CMTR).
 - Customer specified alternate requirements_____
- Dye Penetrant Examination**
 - SOR Standard** Certifies that the listed serial numbers were examined by visible liquid penetrant in accordance with ASME Section V, Article 6.
 - Customer specified alternate requirements_____
- NACE Compliance**
 - SOR Standard** SOR shall provide certification of compliance that the pressure boundary components of the listed serial numbers were manufactured to meet NACE MR0175/ ISO15156.
 - Customer specified alternate requirements_____
- Ferrite Test**
 - SOR Standard** Certifies the Ferrite Number (FN) of 20% of the welds per serial number is documented on associated weld map drawings.
 - Customer specified alternate requirements_____
- Radiographic Examination (X-Ray)**
 - SOR Standard** Certifies the 3rd party radiographic examination of 5% of welds per sales order line item by sample size in accordance with ASME Section V.
 - Customer specified alternate requirements_____
- Heat Treat**
 - SOR Standard** Certifies heat treatment was conducted to ASTM standards per sales order line item.
 - Customer specified alternate requirements_____
- Mag Particle Examination**
 - SOR Standard** Certifies that the listed serial numbers were examined by visible mag particle in accordance with ASME Section V.
 - Customer specified alternate requirements_____
- Ultrasonic Examination**
 - SOR Standard** Certifies that the listed serial numbers were examined by 3rd party ultrasonic examination in accordance with ASME Section V.
 - Customer specified alternate requirements_____



MEASUREMENT AND CONTROL

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