

FLUSHING RING FLR

Installation & Operation Manual

Source-controlled installation, operation and configuration guidance for the supplied unit.

Final configuration, materials, dimensions, limits and accessories are governed by approved order documentation and the delivered-unit nameplate.



Illustrative product appearance only.

SAFETY

Qualified personnel only.

INSTALLATION

Follow supplied-unit documents.

CONFIGURATION

Order-specific valve and connection options.

READ BEFORE INSTALLATION

Safety, scope and configuration control

PRESSURE-CONTAINMENT WARNING

Failure to follow any instruction could result in malfunction and sudden release of pressure causing serious personal injury or property damage.

QUALIFIED PERSONNEL

Installation must be performed by qualified and experienced personnel familiar with the equipment and this manual.

ORDER-DOCUMENT PRECEDENCE

Do not infer torque, gasket, fastener, rating, material, dimensions, thread form, weld detail or test requirements from this generic manual.

Product role

The FLR is installed between a diaphragm seal and a process connection to provide maintenance access for flushing debris or deposition that may hinder pressure measurement. The supplied unit may have application-dependent flushing ports; source examples are 1/4 in, 1/2 in and 1 in.

Configurable flushing-port options

Selection topic	Manual treatment
Valve option	Ball-valve or needle-valve selection may be specified, subject to application review.
Connection form	Threaded or welded form may be specified; final detail and suitability are order-specific.
Controlled reference	Approved purchase order, associated documentation, drawings where supplied and delivered-unit nameplate.

HOLD POINT

Confirm the supplied unit before installation

01**Inspect transit condition**

Inspect upon receipt. If damage is evident, do not install; notify Globe United.

02**Verify nameplate and order**

Confirm the flushing ring and pressure/temperature rating on the nameplate conform to the purchase order.

03**Confirm site conditions**

Ensure purchase-order operating conditions align with actual installation-site conditions.

04**Confirm material compatibility**

Construction material must be compatible with the contained fluid and surrounding atmosphere.

STOP AND CONTACT GLOBE UNITED

If size, model or performance data do not conform to the supplied order documentation, do not proceed with installation.

General product relationship

NOT A DIMENSIONAL OR CONFIGURATION DRAWING

DIAPHRAGM SEAL → FLUSHING RING FLR → PROCESS CONNECTION

PRE-INSTALLATION

Prepare the pressure connection correctly

Preparation item	Source-controlled direction
Protective covers	Remove plastic covers from the flushing ring or diaphragm seal before installation.
Gasket	Place a gasket between the instrument connection and flushing ring before bolting.
Flush connections	If supplied, ensure flushing connections are plugged or sealed before completing installation.
Gasket alignment	Ensure the gasket does not overlap the inside of the instrument diaphragm weld; overlap may produce instrument reading error.
Fasteners	New stud lengths may be required. Select studs and nuts in accordance with applicable controlled requirements.

PROCESS-LEAK RISK

Improper gasket installation may permit a process leak. Do not reuse spiral-wound gaskets after installation.

Before bolting

Confirm the flange arrangement is clear of tank or pipe interference, the sealing faces are prepared according to the ordered-unit requirements, and all required controlled installation documentation is available.

CONTROLLED SEQUENCE

Install, secure and operate within supplied-unit controls

01**Locate and gasket**

Position the ring; place the gasket between the instrument connection and ring.

02**Start at instrument side**

Fit washers and place two bottom flange bolts from the instrument side.

03**Attach process side**

Connect to the process side, then insert remaining bolts from the instrument side.

04**Hand-tighten and align**

Hand-tighten fasteners and confirm no interference with tank or pipe.

05**Cross-pattern tighten**

Tighten bolts evenly in a cross pattern using a calibrated torque wrench and applicable controlled torque values.

06**Operate only as configured**

Use any supplied flush/vent arrangement only in accordance with approved order-specific documentation.

OPERATION AND MAINTENANCE BOUNDARY

In applicable DP-level-transmitter service, a vent may assist trapped-air relief and zeroing. Do not treat this general context as a procedure for a specific supplied arrangement. Ball-valve/needle-valve and threaded/welded selections must be serviced only under the supplied unit's approved documentation.

TECHNICAL ASSISTANCE

Keep the technical conversation evidence-led

A**Process conditions**

Provide pressure, flow rates and other relevant process information.

B**Order record**

Provide purchase order or sales order number and invoice.

C**Troubleshooting**

Describe procedures already attempted and the observed result.

WARRANTY REFERENCE

The supplied source manual states a warranty period of one year after installation or eighteen months after manufacture, whichever occurs first. Proof of purchase and written authorization are required before return. Warranty exclusions and remedies remain governed by the authorized source and applicable sales documentation.

SERVICE-CHARGE NOTICE

Evaluation of non-warranty products and physically damaged in-warranty products may incur nominal charges. Contact Globe United before dispatching equipment for evaluation.

Document precedence and contact

Final supplied configuration, materials, dimensions, pressure/temperature limits, accessories, valve design, threaded/welded connection detail and installation requirements are governed by the approved purchase order, associated order documentation, drawings where supplied and the delivered-unit nameplate.

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