

Rosemount 8800 Vortex Flowmeter

Sensor Replacement Preparation and Installation

These instructions apply to wafer-, flanged-, and dual-style flowmeters. Some additional instructions are included for wafer-style flowmeters.

Tools

- Suction or compressed air device
- Small, soft bristle brush
- Cotton swabs, moistened with water or appropriate cleaning agent
- 1¹/₈-inch open-end torque wrench – for 1/2- through 2-inch [15 through 50 mm] and 6- through 8-inch [150-200 mm] wafer-style flowmeters; all dual- and flanged-style flowmeters
- 3/4-inch open-end torque wrench – for 3- and 4-inch [80 and 100 mm] stainless steel wafer-style flowmeters

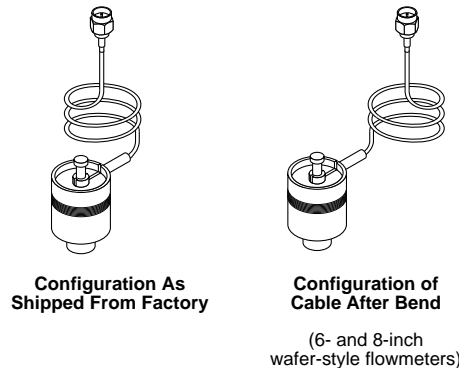
1. Determine line size and meter body style.

2. Bend sensor cable. See Figure 1.

Wafer-style flowmeters, sizes 6- and 8-inch (150 and 200 mm):
Rotate the sensor cable 180° while firmly grasping sensor just below the first coil.

All other flowmeters:
It may be necessary to temporarily bend the sensor cable coil aside in order to install the sensor nut.

FIGURE 1. Sensor configuration



Instructions continued on opposite side

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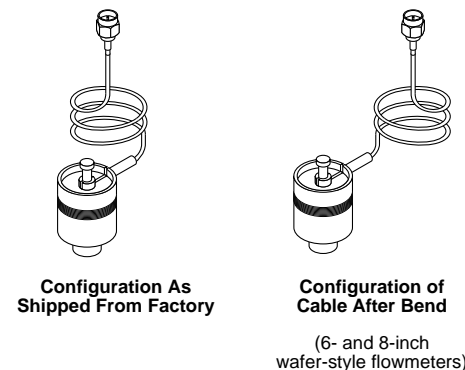
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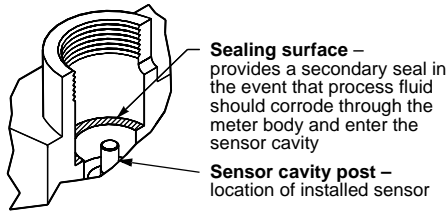


Instructions continued on opposite side

3. Clean the sealing surface. See Figure 2.

- Remove loose particles using a suction or compressed air device.
- Carefully brush surface using a soft bristle brush.
- Wipe surface clean using a moistened cotton swab. Repeat as needed.

FIGURE 2. Sensor cavity

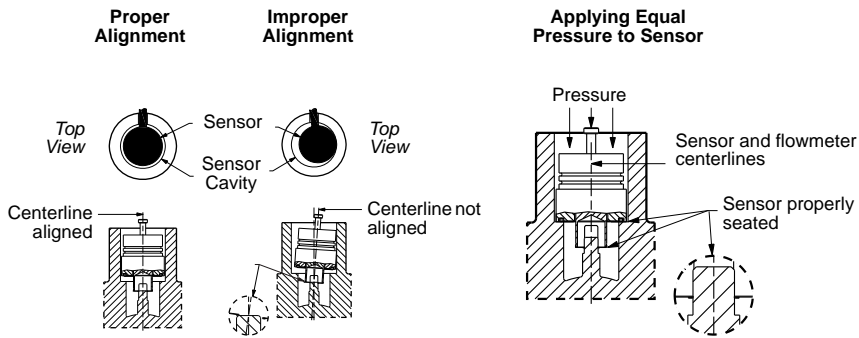


CAUTION
Do not scratch or damage any part of the sensor, sensor cavity, or sensor nut threads. Damage to these parts may require replacement of the sensor or meter body, or render the flowmeter dangerous.

4. Install the sensor. See Figure 3.

- Carefully place sensor over post in sensor cavity.

FIGURE 3. Sensor alignment before seating; applying equal pressure during installation



- Manually push the sensor onto the post by applying equal pressure.
- Screw the sensor nut into the sensor cavity and tighten to 32 foot-pounds using the appropriate open-end torque wrench (see "Tools" on the opposite side of this document).

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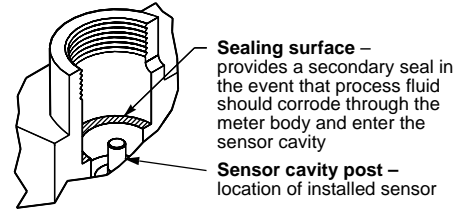
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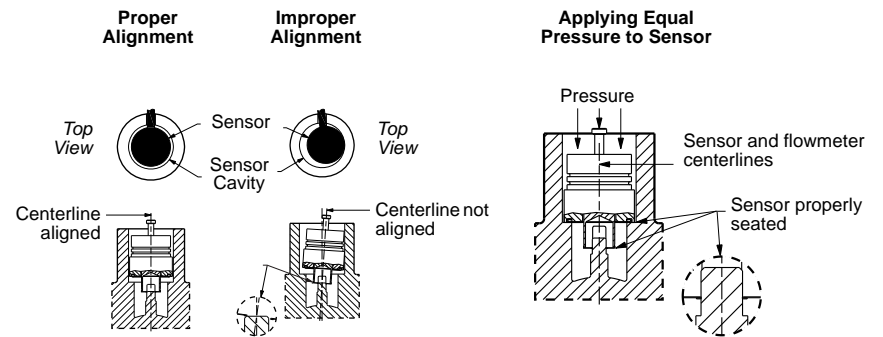


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