

Installing the APEX Radar Gauge with Process Window

Installing with a Process Window

If you are installing the gauge *with* a process window, refer to Figure 1-1 on the reverse side of this document and follow these steps:

NOTE

Make sure the metal gaskets are installed and the flange bolts are torqued properly to keep moisture out of the spool piece. Bolts should be re-tightened 24 to 48 hours after initial installation.

1. Seat the process O-ring (7) into the groove on the window (6), and center the window on the process flange without letting the O-ring slip out of its position in the groove.
2. Make sure that the EMI gasket (8) is seated in the stainless steel window ring (5), place the window ring over the window, and center a spiral-wound gasket (4) over the window ring.
3. Center the standoff pipe or spool piece (2) on the flange. Put two of the bolts (9) in opposite sides and hand tighten. Look inside the spool piece to verify that the Teflon® window is centered on the flange.
4. Once the Teflon window is centered, use the rest of the mounting bolts and nuts to finish attaching the spool piece to the tank flange. **A misaligned window will severely hinder gauge performance.** See Figure 1-2 on the reverse side of this document. Tighten the bolts to 75-100 ft-lb (102-136 N-m).
5. Center the second spiral-wound gasket (4) on top of the standoff pipe/spool piece.
6. Attach the radar gauge (1) to the standoff pipe or spool piece using the bolts and nuts as shown. Tighten the bolts to 75-100 ft-lb (102-136 N-m).

NOTE

When a process window is used, the window and spool piece heights will need to be incorporated into the Reference Gauge Height and Upper Null Zone. Refer to the product manual (document number 00809-0100-4731) for more information.

It is possible to use a standoff pipe/spool piece supplied by a source other than Rosemount; however, it is suggested that when the APEX and APEX Sentry Radar Gauges are mounted, the end of the antenna be no more than 1-inch from the face of the window.

Rosemount APEX and APEX Sentry

Figure 1-1. Diagram for Installation with a Process Window

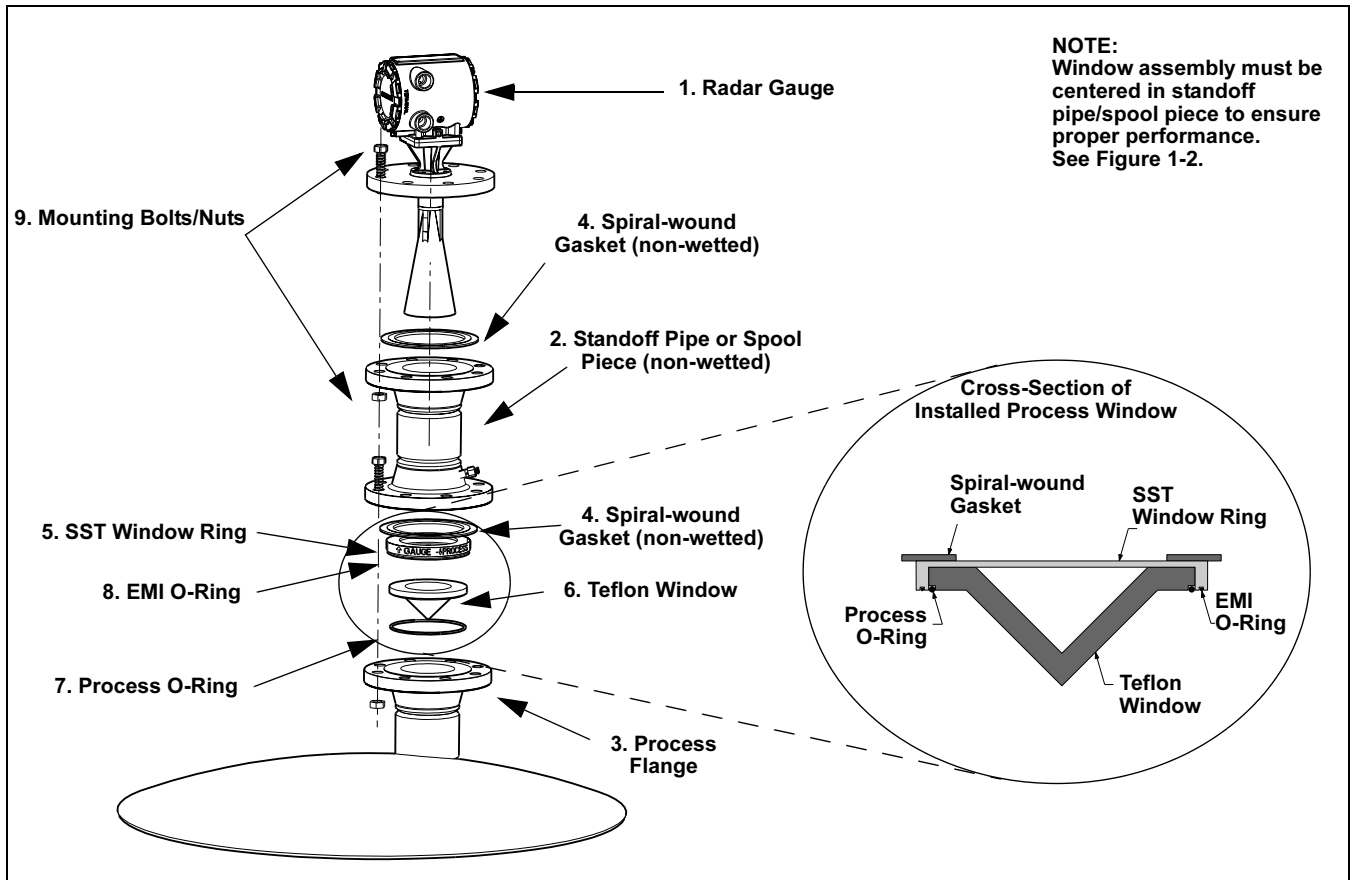
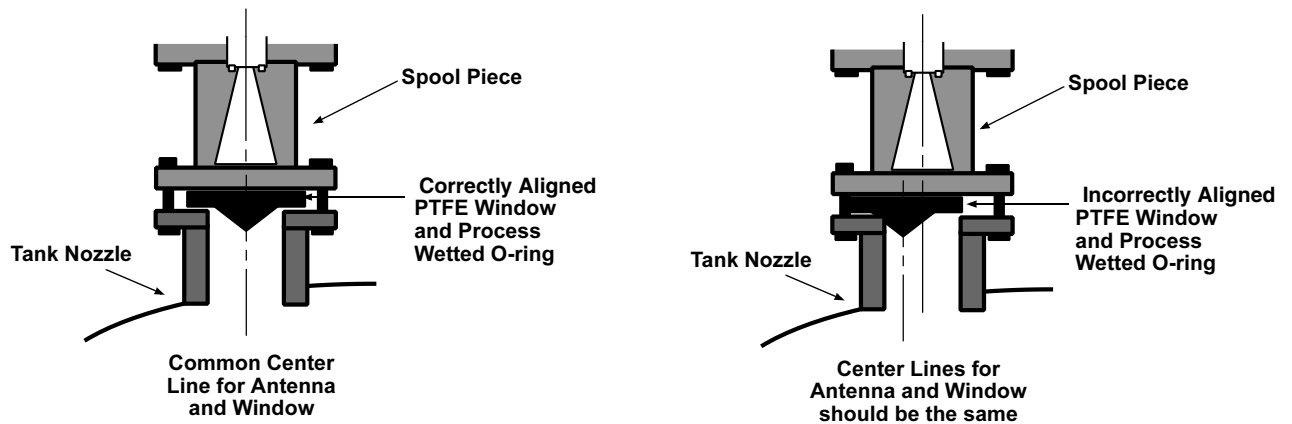


Figure 1-2. Window Centering – Radar Gauge with Installed Isolation Window.



Rosemount APEX and APEX Sentry

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