

Rosemount 1495 Orifice Plate

Rosemount 1496 Orifice Flange Union



NOTICE

This installation guide provides basic guidelines for Rosemount 1495 Conditioning Orifice Plate. It does not provide instructions for configuration, diagnostics, maintenance, service, troubleshooting, Explosion-proof, Flame-Proof, or intrinsically safe (I.S.) installations. Refer to the 1495 reference manual (document number 00809-0100-4792) for more instruction. This manual is also available electronically on www.rosemount.com.

⚠️ WARNING

Process leaks may cause harm or result in death

To avoid process leaks, only use gaskets designed to seal with the corresponding flange and o-rings to seal process connections.

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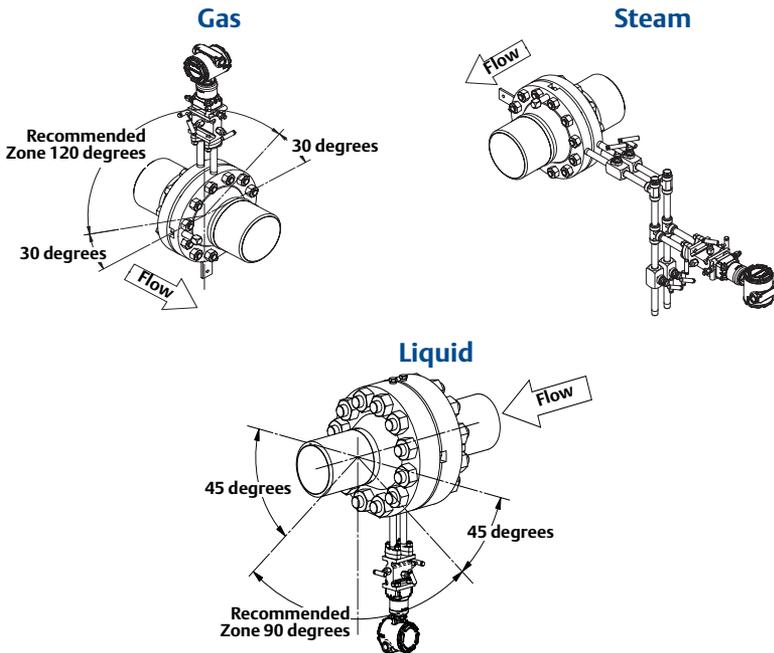
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Step 1: Primary element location

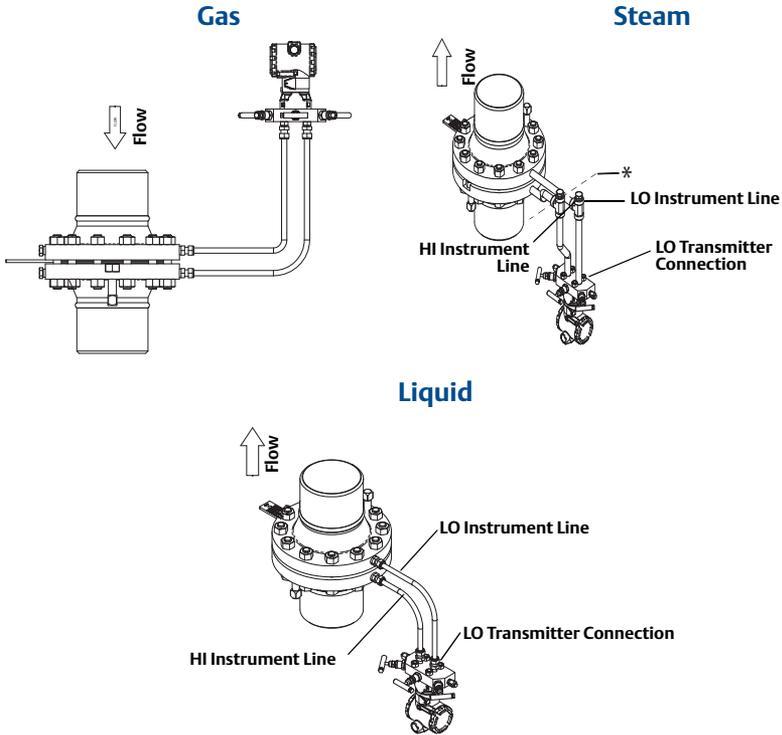
To obtain published accuracy for a 1495 Orifice Plate, sufficient straight run is required to produce a fully developed flow profile. Please see Appendix B of the Rosemount 1495 Orifice Plate Manual (00809-0100-4792) for a list of required straight pipe recommendations based on ISO 5167, AGA Report No. 3, and ASME MFC 3M Standards. Shorter straight runs are possible, but accuracy will be affected per the Standards. Consult the Factory for further information.

Step 2: Primary element orientation

Horizontal pipe installation



Vertical pipe installation



** Bring height of HI instrument line to the same height as LO instrument line before running down to the transmitter*

Step 3: Primary element installation

Note

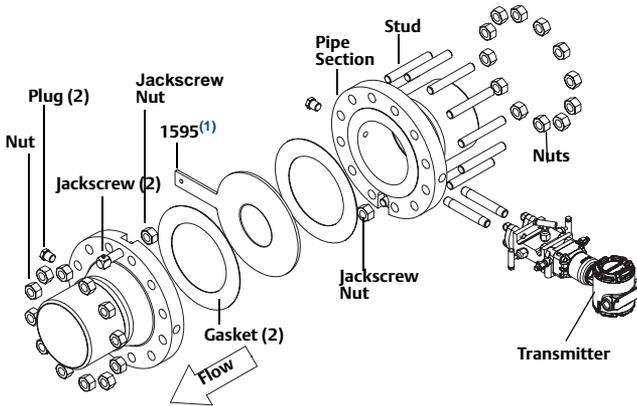
For the 1496 Flange Union refer to the Rosemount 1495 Orifice Plate reference manual (document number 00809-0100-4792).

Use the following steps to install the 1495 Orifice Plate (paddle or universal plate style).

1. Determine Location and Orientation (see [page 3](#)).
2. Install the Orifice Plate

- a. Depressurize the line using site-specific requirements.
- b. Loosen all studs and nuts.
- c. Remove the studs in one-half of the flange union.
- d. Spread flange union by turning jackscrews clockwise.
- e. Install the new plate or remove the existing plate for replacement or inspection.
- f. Install the new gaskets when installing the plate. It is recommended that new gaskets be installed each time the orifice flange union is separated.
- g. Center the plate in the pipe I.D.
- h. Release the flange union by turning the jackscrews counter-clockwise.
- i. Replace the studs.
- j. Tighten studs in a star pattern.

Figure 1. Rosemount 1495 installation

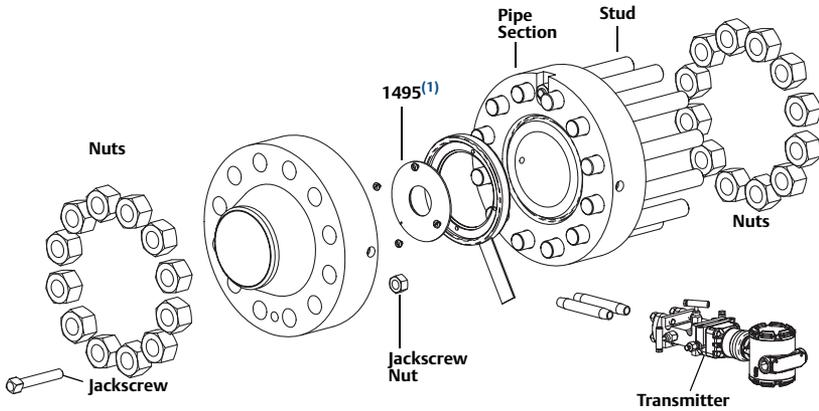


(1) The installation drawings applies when using the Rosemount 3051S, Rosemount 3051C, and Rosemount 3095MV transmitter. See the following documents for quick installation instruction of the transmitters.

Rosemount 3051S: document number 00825-0100-4801

Rosemount 3051C: document number 00825-0100-4001

Rosemount 3095MV: document number 00825-0100-4716

Figure 2. Rosemount 1495 with plate holder (PH) installation


(1) The installation drawings applies when using the Rosemount 3051S, Rosemount 3051C, and Rosemount 3095MV transmitter. See the following documents for quick installation instruction of the transmitters.

Rosemount 3051S: document number 00825-0100-4801

Rosemount 3051C: document number 00825-0100-4001

Rosemount 3095MV: document number 00825-0100-4716

Product certifications

Approved manufacturing locations

Rosemount Inc. — Chanhassen, Minnesota USA

European Directive information

The EC declaration of conformity for all applicable European directives for this product can be found on the Rosemount website at www.rosemount.com. A hard copy may be obtained by contacting our local sales office.

European Pressure Equipment Directive (PED) (97/23/EC)

- Rosemount 1495 Orifice Plate
- Sound Engineering Practice (SEP)
- Pressure Transmitter
- See appropriate Pressure Transmitter QIG

Hazardous locations certifications

For information regarding the electronics product certification, see the appropriate transmitter QIG.



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