

✚ Orifice Plate

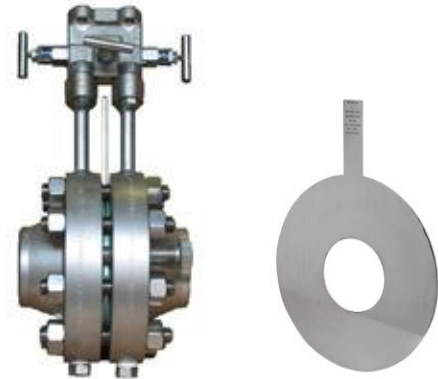
It is differential pressure type of flow meter, exactly reverse of rotameter. It is the most widely applied flow rate measuring device for fluid flows in pipes that require accurate measurement. Differential pressure flow meters have a change in flow cross section that can be described as a restriction placed in the flow line that causes the velocity of the flowing fluid to change. The difference in pressures between the two measurement locations of the flow meter is the result of the change in the flow velocities. The volume flow rate through the cross-sectional area is given by

$$Q = A \times v$$

Where Q = the volumetric flow rate

A = flow in the cross-sectional area

v = the average fluid velocity



✚ Technical Specifications:

- Sizes for Integral Design: 15, 20, 25, 40 MM
- Sizes for Flange Design: 25, 40, 50, 65, 80, 100, 150, 200, 250 MM
- Sizes for D X D/2 Design: 250 to 900 MM
- Orifice Plate MOC: SS 316 / SS 304 / Monel / HAST-C / PP / PVC / PTFE, Coated or Clad with PP / HDPE / PTFE
- Stud / Nut: ASTM A1 93 Gr. B7 / ASTM A1 94 Gr. 2H
- Design Code: ISO 5167:2003 / BS 1042
- Flange MOC: ASTM A1 05, ASTM A1 82 F304, ASTM A1 82 F316
- Accuracy : $\pm 3\%$ Of actual reading
- Typical Turndown : 10:3.
- Robust, Simple and Proven Design
- Suitable for all pipe sizes from 1 / 2" to 36"
- Suitable for almost all types of fluids
- Zero Maintenance

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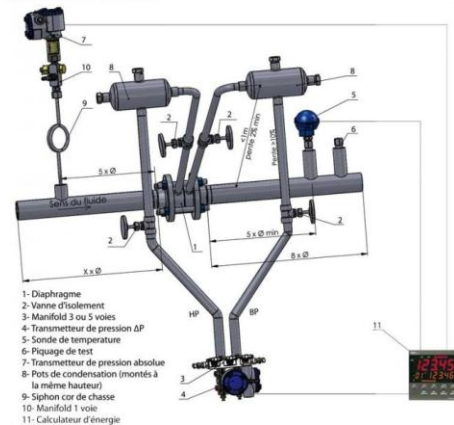
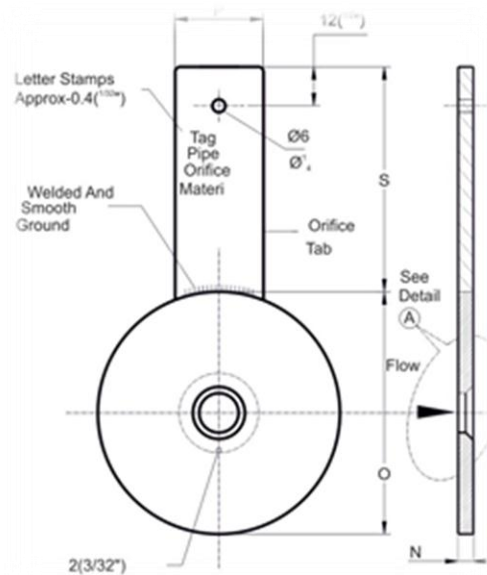
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Advantages of Orifice Plate:

Despite various advances in flow measurement, Orifice Assembly remains one of the most used flow element. This is because it gives accuracy within +/-1% .It is Robust, Simple and Proven Design. It is suitable for Almost All Types of Fluids. It works on First Principle which never fails. It is Suitable for All Pipe Sizes from 1/2" to 36".The cost is very nominal and needs no maintenance. Being stationary device frequent calibration is not required.

Application :

This Most Common Bore Used In The Industries. This Is The Only Type Generally Accepted For Use In Custody Transfer Measurement, Since Adequate Data Is Not Available For Other Bores. Used Primarily For Clean Homogeneous Liquids, Gases, Non Viscous Fluids. The Bevel Is Matched At 45° Angle To The Desired Throat Thickness.



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