Specifications

ZW07 Series

Orifice plate is a differential pressure type primary device used to produce a fluid flow restriction in a pipeline. The differential pressure across the orifice plate is proportional to the square of the fluid velocity. Orifice plates are best used in clean non-viscous fluids. The most common primary flow element is the concentric paddle type orifice plate in combination with flange union. The main advantages are: low cost, ease of installation, accuracy, variety of construction materials, and quick delivery.

ZW orifice plates are precision bored to exact dimensions with a sharp upstream edge to assure accuracy. Orifice plates are correctly finished to the dimensions, surface roughness and flatness to the applicable standard. Orifice information (Tag No., Pipe I.D. Orifice Diameter, Flange Rating, Plate Material) are stamped on the upstream side of paddle.

Standard Specifications

Orifice plates are manufactured in strict accordance to ISA, AGA, ASME and ISO standards.

- Type of bore：Sharp edged concentric orifice
- Rangeability：4 to 1
- Typical accuracy：±2~4% of full scale
- Nominal pipe sizes：1/2" to 24"
- Flange rating：ANSI 150, 300, 600, 900, 1500LB RF
  JIS 10, 20, 30K RF
- Plate thickness：1/8", 1/4"
- Plate material：304SS, 316SS and other materials are available
- Pressure taps：Flange taps, D & 1/2D taps, Pipe taps and Vena contracta taps
- Drain and vent hole：ISA-RP3.2 recommendations. Not drilled for orifice bore smaller than 25.4mm
- Bore tolerance in strict accordance with A.G.A Gas Measurement Committee Report No. 3, A.S.M.E. Fluid Meters Committee Report, and with other Societies recommendations.