



## Ellipse® Pitot Tube Meter

### ASF Annular Flanged Steam

#### DESCRIPTION

The Preso ELLIPSE® Model ASF (Annular Flanged Steam) is a multi-ported, self averaging differential pressure flow element.

#### CONFIGURATION

The flow element has a two piece construction, of an elliptical shape with two 100% independent flow sensing chambers to prevent signal degradation and mixing or that require dampening hardware or software. The impact velocity sensing holes are located along the leading edge and the true static sensing holes are on the exterior probe side. The probe does not generate any vortices or vacuum effects that impinge on the static pressure measurement sensing area and has a drag coefficient of 0.32 or less. Each flow sensor is complete with instrument shut off valves with provisions to accept a transmitter or direct indicating meter. An identification tag is supplied with specific flow station measurement information as required.

#### MATERIALS

All sensing elements are 316/316L stainless steel. The mounting assembly is of the same material as the process pipe material with a flanged mounting configuration and instrument OS&Y gate valves, tees and nipples. The station is rated to 800° F (425° C) and 800 PSIG (55 Bar) and is selected to meet actual design conditions.

#### ACCURACY & REPEATABILITY

The accuracy of the flow element is within  $\pm 0.75\%$  with a repeatability of  $\pm 0.1\%$  and turndown of 17:1 in the corresponding and appropriate range of Reynolds' Numbers. Certified, independent test data is available from NIST laboratories in similar line sizes as well as in liquids and gases.

#### QUALITY

All flow sensors are manufactured under an ISO 9001:2008 certified quality program. Certification documentation is available for inspection. To prevent corrosion, no welds, rough surfaces or longitudinal depressions are part of the sensor in the fluid stream.



#### APPLICABLE FLUIDS

Steam.

#### COMPONENTS

All sensors are furnished with 1/2" instrument gate valves (with proper class rating), threaded cross tees, flanged mounting hardware (with proper class rating), and ID tag as standard equipment. Available options include: Integral 3-valve or 5-valve transmitter mount manifold and integral RTD temperature sensor.

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