PRODUCT DATASHEET

Insert HVT Venturi -Fiberglass

Installed Between Flanges PI Series

Description

Designed to be inserted between flanges, often already existing, the Insert Venturi

Meter can be custom fabricated with almost any available machinable material, including fiberglass. For metallic fabrication see "Insert HVT Venturi - Metallic" datasheet. This style of meter is designed to match the pressure and temperature limits of the flanges it is being mated to. It is ideal for measuring clean gases or liquids. Static inlet taps and a grouted-in design is available for large line sizes. The FIDG Digester Gas models can be fitted with high and low pressure tap vent cleaners to allow the clearing of any buildup around the piezometer (pressure sensing) taps.

Common Materials

• Fiberglass with Stainless, Carbon Steel or Fiberglass Throat and Holding Plate

Other Materials Available

· Aluminum · Tantalum

Inconel

- Hastelloy B & C
- Monel
 Zirconium
- Titanium
- Duplex S/S 321 SS

Model Types

- FIFR Fabricated, Insert, Flanged, Run
 FIG Fabricated, Insert, Grout-In
- FIW Fabricated, Insert, Weld-In
 FIF Fabricated, Insert, Flanged

• FIWR Fabricated, Insert, Weld-In, Run

- FILF Fabricated, Insert, Low Flow Meter
- FIDG Fabricated, Insert, Digester, Gas

Specifications

Primary Flow Signal

Line Size: 3 to 144 inches. Larger sizes available upon request.

Head loss % of Differential: 3.50 to 10.0 percent

Required Straight Piping: Consult PFS datasheet

Beta Range: 0.20 through 0.80

Useful Service Life: Very Long

Service Functional Limits: Clear liquid, gas, and digester gas

Basic Accuracy (% of Total): +/- 0.25 (Calibrated) +/- 0.50 (2 Sigma) (Uncalibrated)

Minimum pipe Reynolds number: Must be greater than 75,000 for basic accuracy



Providing Reliable Flow Measurement Since 1983



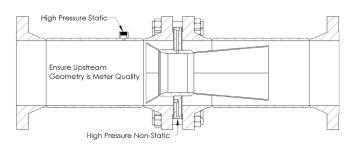
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Applications

- Potable Water
- Water Treatment Plant
- Wastewater Treatment Plant
- · Air and gas, clean liquids, refrigerated gases
- · Aeration basins sparge air flow (most common)

Special Features

- \cdot Extended product life with no moving parts
- Delivers the best high-pressure performance for the great value
- \cdot Lower susceptibility to erosion
- · No downstream installation effect; minimal upstream effect
- Useful for flow measurement at high velocities
- Turndown ratio of 10:1, 20:1, 50:1 and greater can be achieved depending on the specific model and design of the meter as well as the type of secondary instrumentation system utilized
- Repeatability of ± 0.1%
- \cdot Mounts in any position



(Figure 1.1 above) Upstream or both up and down stream spools can be provided as an assembly, complete with meter installed to guarantee the upstream geometry meets all dimensional and finish requirements. Configured with either static or non-static high pressure tapping.