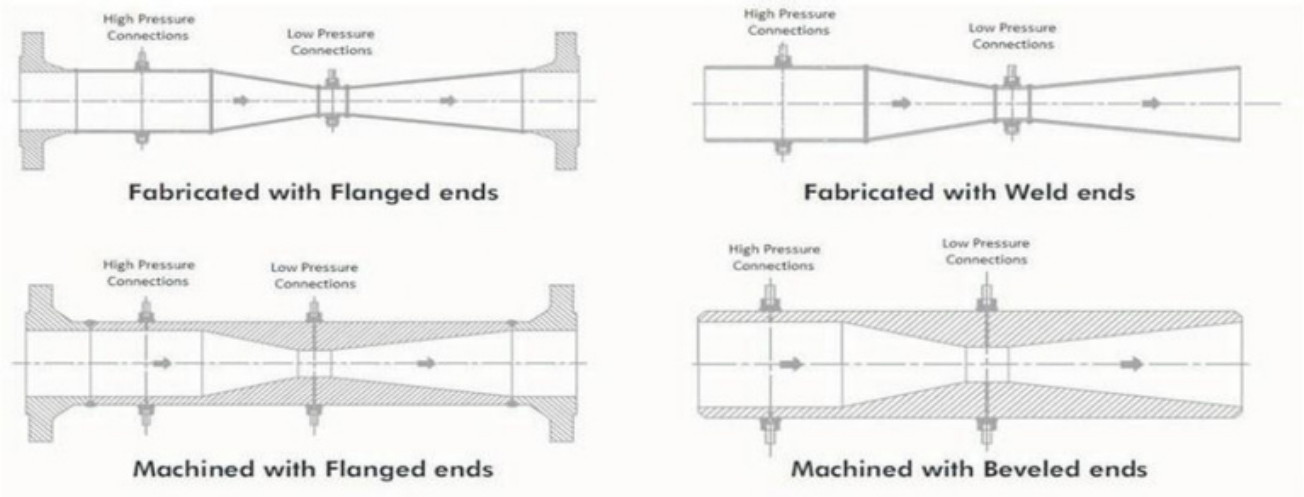
Perfect Engineering Services

Venturi Tubes

DESCRIPTION

The Venturi Tube is a differential pressure device suitable to measure flow rate in a closed conduit with the minimum permanent pressure loss.



TECHNICAL SPECIFICATIONS

Applications	Oil & Gas / Petrochemical Industries / Power Stations
Type and Construction	Manufactured by bar stock / Manufactured by welded plate / For big size and very highwall thickness Venturi Meter can also be manufactured by forging / Conical divergent angle of 7° for low loss venturi / Conical divergent angle of 15° for Classical Venturi / All types can be supplied Truncated or not Truncated / Process connections: all types / Instrument connections: all types / Venturi tube for rectangular duct Pressure Taps: With annular chamber (for classic/standard applications) / With piezometric ring (for light applications) / direct pressure taps (for high wall thickness and heavy applications)
Material	All material requested by the customer / Material Specifications: all / Main material Reference: ASTM-ASME Code
Flow Calculation	Main Reference code: ISO 5167 ASME MFC-3M / Other standards: ANSI 2630 /AGA-3/A PI.Ch.14 (1992)/Miller-Spinks-Shell Engineering Handbook

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STANDARD LIMITS AND APPLICATION FIELDS

Dimensions:	Venturi by bar stock: 2" to 10" / Venturi by welded plate: up to 48" (and above, where acceptable by the Customer) / Venturi by forging: all dimensions
Beta Ratio:	Venturi by bar stock: 0.4 to 0.75 / Venturi by welded plate: 0.4 to 0.7 / Venturi By Forging: 0.3 to 0.75
Reynolds Number Range:	Venturi by bar stock: 200000÷1000000 / Venturi by welded plate 200000÷200000 Venturi by forging: 200000÷2000000

PERFORMANCES

- Accuracy (referred to flow coefficient): as per ISO Code
- Rangeability : 1 to 3
- Ripetibility:(+/- 0.1%)
- Max PPL (5-15)% of full scale differential pressure
- straigth Lengths Requirements : as Specified In ISO 5167 International Code

CALIBRATION

- Accuracy (referred to flow coefficient) after calibration in accredited lab: (+/- 0.5%)

NOTE

- Flow Meters can be manufactured according to all client specifications
- Flow Meter can be supplied with all suitable accessories (valves / manifold / condensing pot / transmitter / fitting / tubing)