

AVERAGING PITOT TUBE AND PITOT STATIC TUBE

Pitot tube is a primary flow element which is used to measure the flow rate based on the differential pressure measurement principle. By using Bernoulli's principle it can calculate the volumetric flow rate through the calculation of static and dynamic pressure difference.

Average pitot tube uses multiple ports in the upstream section which are positioned at equal annular points. The total pressure developed at each port are averaged within the tube and represented at the head as the high pressure component. A single sensing port located at the downstream section can provide the low pressure component. The differential pressure created by the dynamic force at the inlet and static force at the output, creates the average at the output to enable the flowrate measurement.



SPECIAL FEATURES

- ◆ Averaging Pitot Tube is suitable for clean liquid, gas flow measurement
- ◆ Accuracy $\pm 2\%$ of actual flow rate
- ◆ Repeatability of measurement $\pm 0.2\%$
- ◆ Short upstream and downstream straight pipe lengths
- ◆ Long term accuracy
- ◆ Less pressure loss
- ◆ Dual averaging for better accuracy
- ◆ Lower material cost for large line sizes
- ◆ Reduced installation time & cost

APPLICATIONS

- ◆ Oil production and refining
- ◆ Water treatment and distribution
- ◆ Gas processing and transmission
- ◆ Chemical and petrochemical industries
- ◆ Aerospace Industry

TECHNICAL SPECIFICATION

Design Standards:

ISO-3966

Line Size:

DN 50mm to 2000mm (1" to 80")

Pressure rating:

Ranging from ANSI 150# to ANSI 2500#

Averaging Pitot Tube Material

Stainless Steel, Duplex, Super Duplex, 6 Mo, Monel 400 and Inconel 625
(additional material on request)

Mounting style:

Flanged, Compression Fittings

Tapping type:

Flanged / NPT / Socket Weld

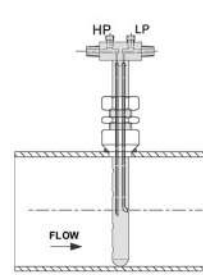
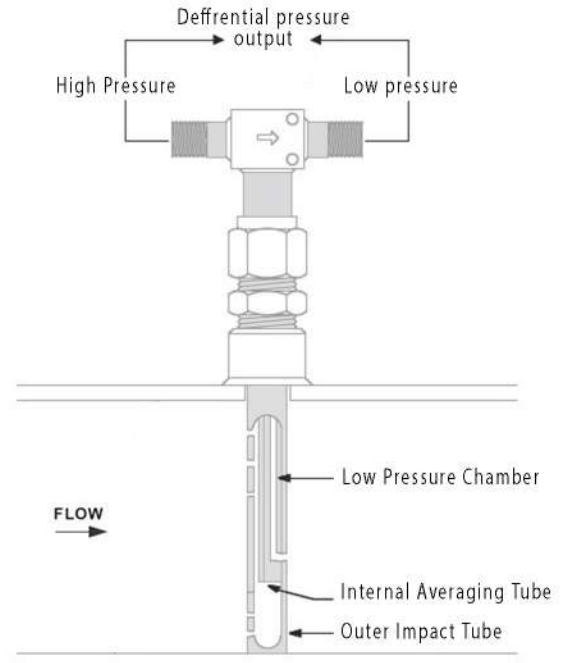
Reynolds number:

Ranging from 10^4 up to 10^7

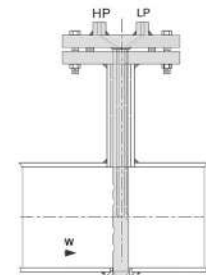
Marking:

Marked with the line size, bore size, material of construction and additional technical details as per request

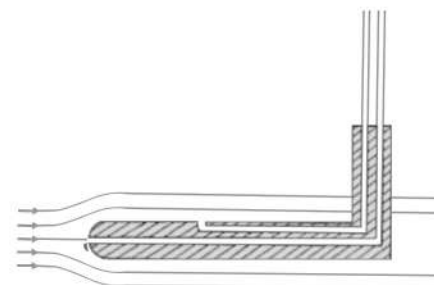
Design Specifications:



Direct Insertion Screwed



Direct Insertion Flanged



Pitot Static Tube

Company address:

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