

JT-123 SS (High Temperature Insertion Paddle Wheel Flow Sensor)



FEATURES

- Flameproof Enclosure.
- Harsh Industrial Application.
- Four Bladed paddles for optimal performance.
- Dynamic range with virtually no pressure drop.
- Wide choice of installation fittings.
- Lower installation and maintenance cost.
- Stainless steel rugged rotor suitable for high temperature application.

GENERAL DESCRIPTION

JT-123 is paddle Wheel type SS body with **Flameproof** Enclosure Flow sensor suitable for **High Temperature** liquid application. It is unique combination of ROBOST design and easy to use type flow sensor. VATS come out with flame proof connection Flow sensor for chemical industry with important features like Stainless Steel Rotor and high temperature application. With proper installations **JT-123** sensor can be installed in wide range of pipe sizes. Variety of materials is available in installation fittings like, MS, and SS. These fittings include Tees, with specific Weld Ends, Thread Ends or Flange Ends and Weldon Adaptor.

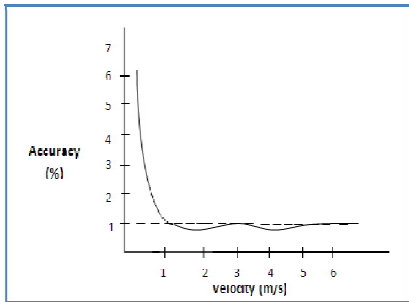
TECHNICALS

Data	Power	Material
Velocity: 1 To 5 m/s. Linearity: +/-1 of Full scale. Repeatability: +/-0.5% of Full scale. Temperature range: 125° C Viscosity: upto 20cp. Pressure range: upto 20 bar.	Power Supply: 12-24 V DC +/-15% Current rating : < 30mA Output Voltage: 12-24 VDC Gasket: PTFE Protection: Short Circuit and reverse polarity. Cable Type: 3 Core PTFE inner with PVC coating. Output Signal: PNP.	Sensor Body: SS316 L Paddle: SS Pin: T.C Gasket: PTFE Bearing Bush: PEEK Protection Rating: Flameproof Enclose extension cable

APPLICATIONS

Compressor	Food & Beverages	Power
Transformer Oil	Agriculture	Textiles

ACCURACY DIAGRAM & LINE SIZE SELECTION CHART

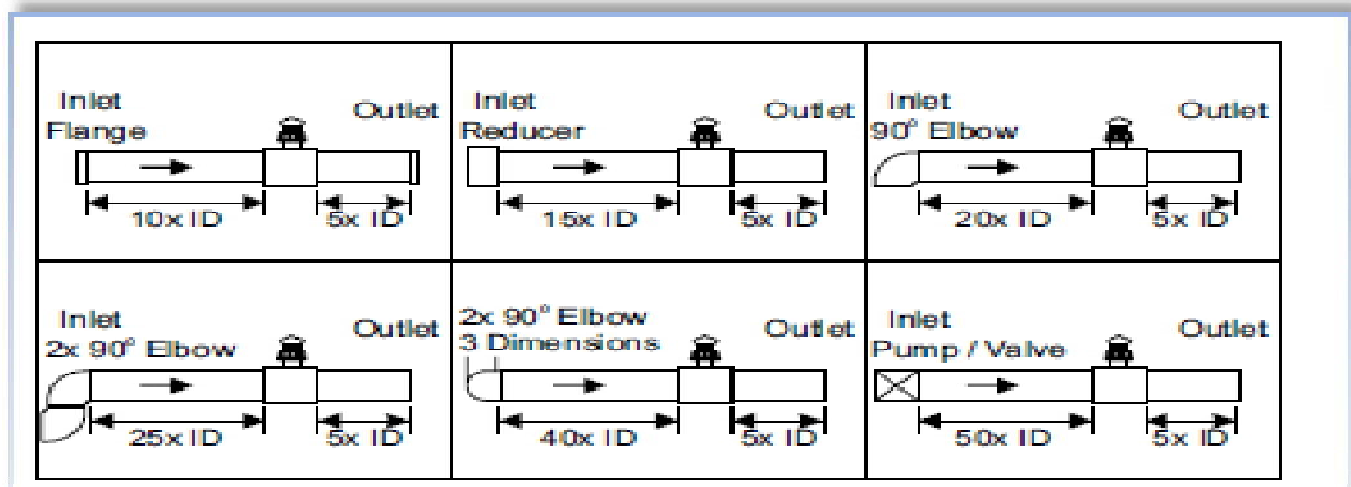


Pipe size(NB)	15	25	40	50	65
Min flow M ³ /Hr	0.2	0.8	1.9	3.5	5.8
Max flow M ³ /Hr	2.1	8.0	19	35	58
Pipe size(NB)	100	125	150	200	250
Min flow M ³ /Hr	14	22	31	56	87
Max flow M ³ /Hr	140	220	310	560	870

- Use of filter before Flowmeter is necessary.
- Straight run condition given in manual must be maintained while installation

MECHANICAL

Straight inlet and outlet must be maintained when installing fittings in pipe lines in order to achieve turbulent flow conditions. The most important layouts that could lead to turbulence in the flow are shown below, together with mentioned minimum and inlet and outlet distances. These insure turbulent, problem-free measurement conditions at the measurement point. For more Installation guidelines please refer manual. For best results Reynolds number (R) is greater than 5000 especially for viscous liquids. to Calculate R use following formula.



NOTE:

1. *In Vertical Piping only Upstream flow is recommended*
2. *Flow Meter should be installed before valve*
3. *Y type strainer is must for recommend result*