

JT-122 – Insertion SS Paddle Wheel Flow Sensor (Non-Magnetic Coupling)



FEATURES

Suitable for Harsh Industrial applications.
 Open cell design for linear and repeatable output.
 Dynamic range with virtually no pressure drop.
 Wide choice of installation Fittings.
 Lower installation and maintenance cost.
 Suitable for *Turbid* water with SS Non magnetic Paddle.

GENERAL DESCRIPTION

JT-122 is only choice for raw water application in MS pipelines with ferrous particles/rust, Featured with Stainless-steel Paddle and Non-magnetic Coupling between paddle and electronics, JT-122 is most robust and advance Sensor in the family of Paddle Wheel Sensor worldwide in all **INDUSTRIAL APPLICATION** .With proper installations, **JT-122** sensor can be installed in wide range of pipe sizes.

TECHNICAL

Data	Power	Material
Velocity: 1 To 5 m/s. Linearity: +/-1 of Full scale. Repeatability: +/-0.5% of Full scale. Output Signal: PNP. Viscosity: upto 20cp. Temperature: 0to 55° Pressure range: upto 20 bar.	Power Supply: 12-24 VDC +/-10% Current rating : < 10mA Output Voltage: 12-24 VDC Gasket: PTFE Protection: Short Circuit and reverse polarity. Cable Type: 3 Core PTFE inner with PVC coating.	Sensor Body: SS304 Paddle: SS Pin: T.C Bearing Bush: PEEK/PVDF Protection Rating: IP -68

Applications

Water Treatment

Cooling

Construction

Oil

Power

Textiles

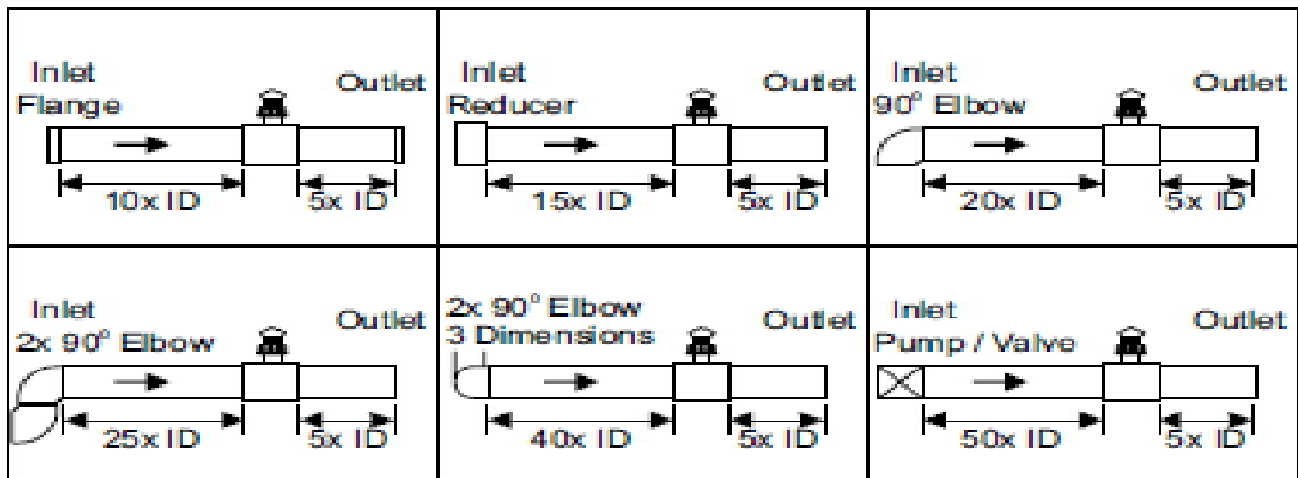
Line Size Selection Chart

Pipe size(NB)	15	25	40	50	65	80
Min flow M ³ /Hr	0.2	0.8	1.9	3.5	5.8	7.5
Max flow M ³ /Hr	2.1	8.0	19	35	58	75
Pipe size(NB)	100	125	150	200	250	300
Min flow M ³ /Hr	14	22	31	56	87	126
Max flow M ³ /Hr	140	220	310	560	870	1260

- Use of filter before Flow meter 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