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.

- •Use of filter before Flowmeter is necessary
- •Straight Run conditions given in manual must be maintained while installation

GENERAL DESCRIPTION

JT-122 is only choice for raw water application in MS pipelines with ferrus 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 APLLICATION**. With proper installations, **JT-122** sensor can be installed in wide range of pipe sizes.

TECHNICALS

Technical Data		Electrical Co	nnection ratings	Material	
Velocity:	1 To 5 m/s	Power supply:	12-24 V DC +/-10%	Sensor Body:	SS 304
Linearity:	+/- 1 % of Full scale	Current Rating:	< 10mA	Paddle:	SS
Repeatability:	+/- 0.5 % of Full scale	Output Voltage:	12-24 V DC	PIN:	T.C.
Temperature range: 0 to 50° C		Output Signal:	PNP	Gasket:	PTFE
Viscosity:	Upto 20 cp	Protection: Short	Circuit and Reverse Polarity	Bearing Bush:	PEEK
Pressure range:	Upto 20- bar	Cable Type: 3core	PTFE inner with PVC Coating	Protection Rating:	IP-68

APPLICATIONS

Water treatment	Cooling	construction						
Oil	power	textiles						
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LINE SIZE SELECTION CHART

Pipe size(NB)	15	25	40	50	65	80
Min flow M³/Hr	0.2	0.8	1.9	3.5	5.8	7.5
Maxflow M³/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
Maxflow M³/Hr	140	220	310	560	870	1260

ELECTRICAL WIRING

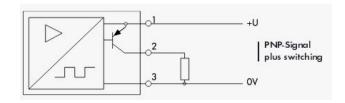
Variety of Electronic Readers cum controllers are available.



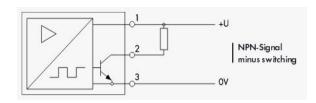
A: Field Mounted Indicator, J: Panel Mounted Indicator.

For Battery Operated Active Sensor please contact the Factory.

Connection: PNP Switching

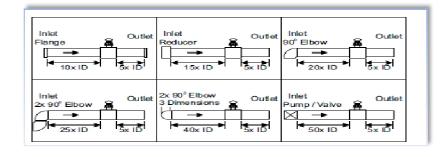


Connection: NPN Switching



MECHANICAL

Straight inlet and outlet distances that 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.

......W W W . V A T S M E T E R . C O M......