

FLOW SENSOR – JT 121 & FITTING

Technical Specifications

Flow rate range

0.5 to 5 m/sec

Accuracy

±1% of full scale

Input Voltage

5 to 12 VDC

Output Signal

Square wave of 5 to 12 Volt amplitude

15 – 17.5 Hz/m/sec

Cable length

5 meters

Protection rating

IP 67

Material of construction

	Body	Paddle	Pin	O'ring
Standard	PP	PVDF	Metal	Viton
Optional	PVDF	PVDF	Metal	Viton

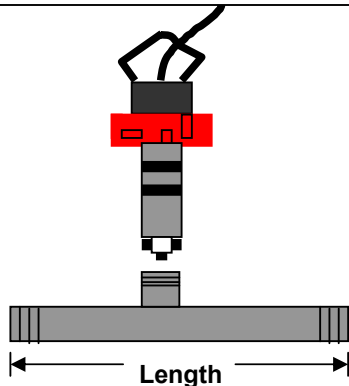
Wiring connections:

Number 1 (Red wire) : V 2 : Supply 5 – 12 VDC

Number 2 (Black wire) : S 1 : Output signal TTL

Number 3 (Shield wire) : G 2: Common

Note: Connection in any other sequence will not show any reading.



SIZE NB	Fitting Length
15	250 mm
25	175 mm
40	235 mm
50	300 mm
65	350 mm
80	450 mm
100	500 mm

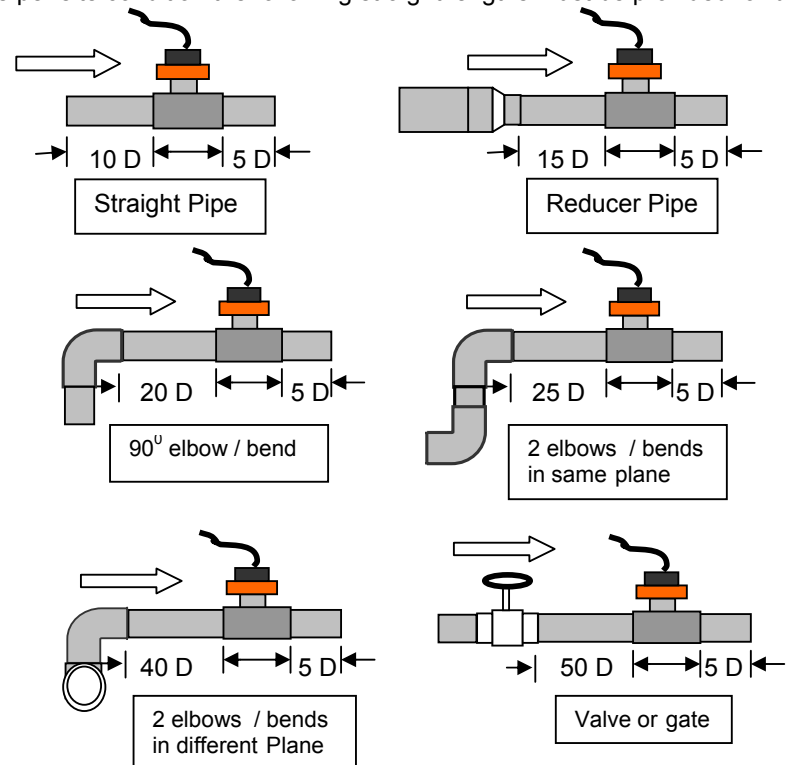
Line Size Selection Chart [For Water]

Pipe Size (NB)	15	25	40	50	65	80	100
Min. Flow (m ³ / hr)	0.2	0.8	1.9	3.5	5.8	7.5	14
Max. Flow (m ³ / hr)	2.1	8.0	19	35	58	75	140

VATS FLOW METERS INSTALLATION GUIDE LINES

All flow-meters fittings require a straight run.

As per site condition the following straight lengths must be provided for best result.



Sensor/Indicator mounting guidelines:

The unique paddle wheel design of the sensor permits it to be mounted in any plane i.e the unit can be installed in vertical as well as horizontal piping. Insert the blind plug supplied along with the meter in the fitting and flush the line with water. Depressurize the line, remove the blind plug and insert the flow sensor gently. Ensure that the sensor O-rings are in place and slightly greased. Push the sensor in till the threaded cap touches the T fitting. Before tightening the cap ensure the direction of the sensor is proper. In case of panel mounted units the arrow on the sensor should point in the direction of flow. In case of field mounted units the sensor must be mounted such that the display becomes parallel to the pipe line. Start tightening the cap by hand. For ensuring the sensor in correct position a male/female locking arrangement has been provided in the sensor and the fitting respectively. While tightening the sensor cap, by a slight angular motion, one can get an idea of proper locking properly locked sensor/fitting will not have any angular motion.

DO NOT USE PIPE WRINCHES OR ANY OTHER TOOLS FOR TIGHTENING THE CAP.

Follow the **ARROW** marking on the Fitting while installing.