

METAL TUBE ROTAMETER WITH TRANSMITTER

INTRODUCTION

metal tube rotameter with transmitter is specially design for process industries to measure the flow rate and total quantity of liquid and gases under critical condition. IT find application particularly for fluid with high temperature, pressure & can also be used for opaque liquid, wherever the visibility of float is observed. IT is a volumetric measuring instrument , which essentially measures velocity of the passing fluids by employing Bernoulli's principle that sum of pressure, velocity and datum head of the fluid is always constant at a point.

The travel of magnetic float is magnetically coupled with analogue local indication shaft and linear calibrated cam connected another end of pointer shaft. When the flow start moving upward the potentiometric link moving through calibrated cam and give the change in resistance. This change in resistance is converted in to linearly retransmission current output 4 - 20 mA with local analogue indication as per calibrated flow range unit.

FEATURES

- Compact & long terms reliability.
- Rugged & corrosive environmental construction.
- Custom built construction, ranges & process connection.
- Individual calibration for high accuracy.
- Application for high pressure, temperature & opaque liquid.
- Simple mechanism & thus maintenance free.
- Easy to clean- no calibration disturb.
- 2 wire linear output transmitter.
- Digital flow indicator totalizer unit with adjustable alarm set point.
- With weatherproof -flameproof enclosure.
- We provide calibration report traceable to ISO - 9000.

APPLICATION

In process of chemicals, pharmaceuticals, Dairy & Food industry. Petrochemicals, Fertilizer, Effluent water treatment Plants & many application where Accurate flow measurement required in Process & Engineering Industries.



MTR / AFT
WITH ANALOGUE INDICATION



MODEL - FIT / 607

MODEL - FIT / 608

MICRO PROCESSOR BASED
FLOW INDICATOR TOTALIZER

FLOW RATE OF WATER & AIR WITH S.S. FLOAT

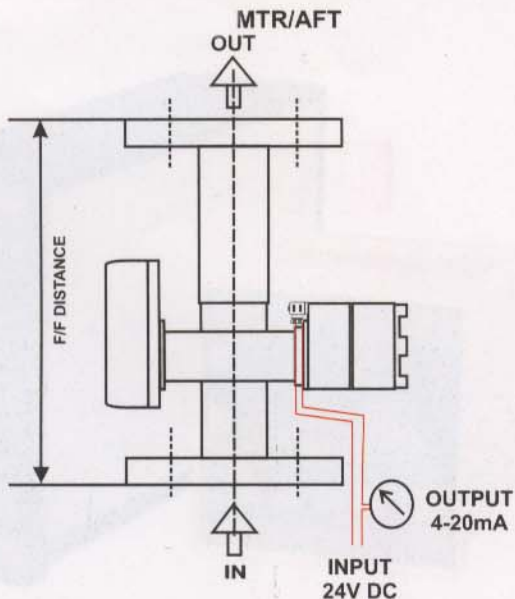
LINE SIZE	WATER AT AMB. TEMP. LPH	AIR AT AMB. TEMP. 760 ABS TOR M ³ /HR	PRESSURE DROP MM. WC.
15 NB OR 20 NB	20 - 200	0.6 - 6	1200 mm. wc.
	25 - 250	75 - 75	
	40 - 400	-	
	50 - 500	1.5 - 15	
	75 - 750	2.0 - 20	
25 NB	100 - 1000	3.0 - 30	1000 mm. wc
	150 - 1500	4.0 - 40	
	175 - 1750	5.0 - 50	
	200 - 2000	6.0 - 60	
	250 - 2500	7.5 - 75	
	300 - 3000	10 - 10	
40 NB	600 - 6000	20 - 200	1000 mm. wc
	1000 - 10000	30 - 300	
50 NB	1500 - 15000	45 - 450	1000 mm. wc
	2000 - 20000	60 - 600	
80 NB	2500 - 25000	75 - 750	1200 mm. wc.
	3000 - 30000	100 - 1000	
100 NB	5000 - 50000	150 - 1500	1200 mm. wc.
	6000 - 60000	-	

- We can provide process connection size as per customer requirement with required flow range.
- We will provide range in LPH, USGPM, SCFM, M³/Hr., Kg/Hr. or any engineering scale as per Customer's requirement .

GENERAL SPECIFICATION

Indication Box	Cast Aluminium Weather Proof
Wetted Parts	S.S. 304, 316, 316L, PP., PTFE LINED
Float	S.S. 304, 316, 316L, PP, PTFE LINED
Scale	PVC Printed
Pointer	Aluminium
Scale Length	125 mm. 90° .
Locate Display	Anologe
Magnet	High Power Permanent
Float Travel	50mm / 80mm Aproximatly
Rangeability	10 : 1
Accuracy	±2% Of Full Flow, Extra on request
Max. Pressure	50kg/cm ² above on request
Max. Temp.	250°C
Calibration	5 Point Calibration
Connection	Flanged, Threaded, Or Triclover Type
F/F Distance	250 / 350 mm. Std., Extra on request
Inlet-outlet	Bottom - Top or Rear
Transmitting Output :	
Type	2 Wire system
Supply	24 V. Dc.
Out Put	4 - 20 mA.
Max. Amb Temp.	70° C.
Setting	Factory Set for zero & span
Encloser	Cast Aluminium Weather / Flame Proof
Cable Gland	Socket Connector Pin

NOTE : FLAME PROOF TRANSMITTER ENCLOSURE AVAILABE WITH FITZER / MTR / AFT MODEL



**FLOW INDICATOR TOTALIZER
MODEL - FIT / 606**

WE PROVIDE OPERATING INSRTRUCTION MANUAL WITH EACH INSTRUMENT.

MORE DETAILS ON REQUEST