



# ROTAMETER

Metal Tube (Magnetic)

Variable Area Flowmeter

Model No.  
MTR 250

## OPERATING PRINCIPLE

Metal Tube Rotameter is basically a variable area flowmeter. The differential pressure across the annulus area is constant and the Flowrate is measured as a function of the position of annulus area created by float position. The position of the float is sensed by a magnet and indicated On the dial in terms of flow rate.

## STANDARD FEATURES

- \* Float Does Not Project Out Of The Body
- \* Two Tone Powder Coated Excellent Finish
  - \* Heavy Duty Design With Maximum Visibility
- \* Single Piece ( Jointless ) PTFE / PP Claded Body
  - \* Flow Range Between 25 To 63000 LPH
- \* No Threads In Body, Avoids Corrosion
  - \* Face To Face Distance : 250 mm.
- \* Various Material Of Construction
  - \* Accuracy : +/- 2% Of Full Scale
- \* Line Size From 15 NB To 100 NB
  - \* Suitable For In-Line Installation
- \* Measuring Span - 1:10
  - \* Magnet :- Alnico
- \* Easy To Maintain
  - \* Angular Scale



## Tansa Equipments Pvt. Ltd.

Unit No. 35/36/41, Om Anand Industrial estate, M. S. Road, Raghunath Nagar, Thane - 400604 ( Maharashtra ) India.

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We also manufacture Glass Tube, Purge type, Acrylic body, by - Pass Rotameters & Orifice Assy.



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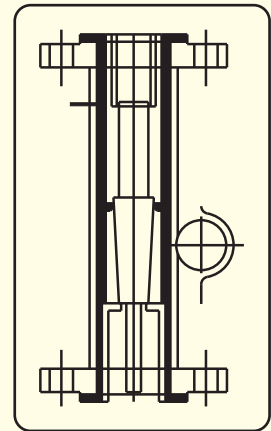
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**With FLOW TRANSMITTER - ( MOUNTED ON METAL TUBE ROTAMETER )  
TRANSDUCER ASSEMBLY**

Contact Less Transmitter	Operating Temperature :- 0 – 50 °C
Enclosure :- Al Die cast (Weather proof)	PC Communication [ Optional ] Type :- RS232 or RS485
Supply :- 24 Vdc ± 10%, 4.8VA	Pulse width:- Programmable(from 15 msec to 1 sec) Applicable in case of optional output provided.
Output :- 4 – 20 mA dc in max. 600 W load, Isolated.	
Accuracy :- ±, - 2.0%	Password Protection :- Provided for all modes.

NB	Float No	With PTFE float LPH	With SS 316 Float LPH	Max Pres Drop MMWC	Test Press kg/cm <sup>2</sup>
15	TM-1	-	2.5-25	1000	20
	TM-2	2.5-25	4-40		
	TM-3	4-40	6.5-65		
	TM-4	6.5-65	10-100		
	TM-5	10-100	16-160		
	TM-6	16-160	25-250		
	TM-7	25-250	40-400		
	TM-8	40-400	63-630		
25	TM-9	63-630	100-1000	1000	20
	TM-10	100-1000	160-1600		
	TM-11	160-1600	250-2500		
	TM-12	250-2500	400-4000		
50	TM-13	400-4000	630-6300	1200	20
	TM-14	630-6300	1000-10000		
	TM-15	1000-10000	1600-16000		
80	TM-16	1600-16000	2500-25000	1500	20
	TM-17	2500-25000	4000-40000		
100	TM-18	4000-40000	6300-63000	1500	20



**PTFE/PP - single pc ( no joint ) cladding  
100% spark proof**

**With Flow Switch :**

**Control unit for above switch**

1. Model no	WE77-EX 1/2 for namur switches
2. Type	Switching amplifier for namur switch
3. Mounting	Din rail
4. Input	110/230v ac ( -15% + 10% )
5. Out put	1 c/o relay contact out put @2 a.
6. Input pulse	By an namur proximity switch

**Slot switch (namur)**

model no	SJ5 - N
Mounting	Mounting on Magnetic Rotameter ( Factory Mounted )
Slot distance	5mm
Supply voltage	8 vdc (through isoiation amplifier)
Out put	Namur 2 wire.
Switch setting	At any point over the range

**DATA REQUIRED FOR OFFER**

- 1) Tag No.
- 2) MOC Of Wetted Parts
- 3) Type Of Connection
- 4) Flang Size / Rating
- 5) Fluid / State
- 6) Operating Conditions
  - A) Fluid Density / SPGR
  - B) Pressure
  - C) Temperature
  - D) Viscosity.
- 10) Measuring Range



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