OPERATING PRINCIPLE

Metal Tube Rotameter is basically a variable area flowmeter. The differential pressure across the annulus area is constant and the flow rate is measured as a function of the position of the 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
We also manufacture Glass Tube, Purge type, Acrylic body, by-pass Rotameters & Orifice Assy.

## Rotameter

**Metal Tube (Magnetic)**

Variable Area Flowmeter

**Model No:** MTR 250

---

### With FLOW TRANSMITTER - ( MOUNTED ON METAL TUBE ROTAMETER )

**TRANSUDER ASSEMBLY**

<table>
<thead>
<tr>
<th>Contact Less Transmitter</th>
<th>Operating Temperature :- 0 – 50 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure :-</td>
<td>Al Die cast (Weather proof)</td>
</tr>
<tr>
<td>Supply :-</td>
<td>24 Vdc ± 10%, 4.8VA</td>
</tr>
<tr>
<td>Output :-</td>
<td>-4 – 20 mA dc in max. 600 W load, Isolated.</td>
</tr>
<tr>
<td>Accuracy :-</td>
<td>±, - 2.0%</td>
</tr>
<tr>
<td>Password Protection :-</td>
<td>Provided for all modes.</td>
</tr>
</tbody>
</table>

---

**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
7. Measuring Range

---

**PTFE/PP - single pc ( no joint ) clading**

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)**

<table>
<thead>
<tr>
<th>model no</th>
<th>SJ5 - N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>Mounting on Magnetic Rotameter (Factory Mounted)</td>
</tr>
<tr>
<td>Slot distance</td>
<td>5mm</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>8 vdc (through isolation amplifier)</td>
</tr>
<tr>
<td>Out put</td>
<td>Namur 2 wire.</td>
</tr>
<tr>
<td>Switch setting</td>
<td>At any point over the range</td>
</tr>
</tbody>
</table>

---

**Tansa Equipments Pvt. Ltd.**

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

Tel. : 2583 2323, 65720669 Fax : 2582 3708,

E-mail : tansaindia@gmail.com / tansa@bom8.vsnl.net.in / tansa@mtnl.net.in

Website : www.tansaequipments.com, www.rotameters.co.in

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