GLASS TUBE ROTAMETER
Works on the principle of variable area

LOFLO ROTAMETER
Suitable For Measuring Low Flowates Of Fluids

EUREKA
INDUSTRIAL
EQUIPMENTS
PVT. LTD.

REGD. & SALES OFFICE : 17-20, 1st Floor, Royal Chambers, Paud Road, Pune 411 038, Maharashtra, India.
Tel: 0991-20-25443076, 25451314 Fax: 0991-20-25441323 Email: sales@eurekaflow.com / eurekapmnmail@vsnl.net

FACTORY : 501, J Block, M.I.D.C., Pimpri, Pune - 411 018. Tel: 0991-20-27460585, 306817 31 to 55
Fax: 0991-20-27460586 Email: eurekamail@vsnl.net

MUMBAI OFFICE : Office No.116, Groomore Tower, 1st Floor, Plot No.5, Sector No.2, Kharghar, Navi Mumbai - 410 210
Mobile: 9322598274

AUTH. SERVICE CENTRE : Eureka Hightech, 281/1, Plot No.38, Kasar Amboli, Tal. Mulshi, Pune-412 108 Tel: 020-22922170

Website: www.eurekaflow.com
Glass Tube Rotameter

Eureka Variable Area Flow Meters (Rotameters) work on the principle of Variable Area. The float moves freely up and down in the tapered borosilicate glass tube with fluid flow from bottom to top. The float takes up a position where buoyancy forces and the float weight are balanced in proportion to flow rate. The vertical position of the float as indicated by scale is the measure of the instantaneous flow rate.

Materials of Construction

- **Tube**: Borosilicate Glass
- **Float**: SS316, PTFE, other on request
- **Packings**: Neoprene, PTFE, Silicon, VITON
- **End Fitting**: Mild steel, Carbon steel, SS304, SS316, CF-8M, CF8, Cast Iron PTFE lined, SS lined, PVC, and any other desired material subject to its availability
- **Frame & Cover**: Mild Steel, SS (optional)

**Performance**

- **Accuracy**: ± 2% of full flow
- **Repeatability**: 0.5%
- **Rangeability**: 10:1
- **Scale length**: 175-200 mm, 250mm (Optional), 500 mm (optional)
- **Max. Temp.**: Up to 200°C, depending upon gland packing material
- **Connections**: Flanged or Threaded
- **Enclosure**: IP 55 or IP65 on request

**OVERALL DIMENSIONS**

<table>
<thead>
<tr>
<th>NW</th>
<th>F</th>
<th>L</th>
<th>C</th>
<th>E</th>
<th>D</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>500</td>
<td>400</td>
<td>440</td>
<td>90</td>
<td>55</td>
<td>95</td>
<td>90</td>
</tr>
<tr>
<td>20</td>
<td>500</td>
<td>400</td>
<td>440</td>
<td>90</td>
<td>60</td>
<td>95</td>
<td>90</td>
</tr>
<tr>
<td>25</td>
<td>500</td>
<td>400</td>
<td>440</td>
<td>115</td>
<td>65</td>
<td>120</td>
<td>115</td>
</tr>
<tr>
<td>40</td>
<td>500</td>
<td>400</td>
<td>500</td>
<td>125</td>
<td>70</td>
<td>140</td>
<td>140</td>
</tr>
<tr>
<td>50</td>
<td>500</td>
<td>450</td>
<td>500</td>
<td>150</td>
<td>70</td>
<td>155</td>
<td>160</td>
</tr>
<tr>
<td>80</td>
<td>500</td>
<td>NA</td>
<td>500</td>
<td>170</td>
<td>NA</td>
<td>190</td>
<td>190</td>
</tr>
<tr>
<td>80</td>
<td>600</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

**MODEL IDENTIFICATION CHART**

**Material of Construction**

- Stainless Steel
- Mild Steel
- PTFE Lined
- Brass
- Carbon Steel
- Cast Iron
- Rubber Lined

**Inlet Outlet Connection Direction**

- Vertical (Inlet bottom, Outlet top)
- Side conn. / Rear conn. / Inlet bottom, Outlet side

**Type of connection**

- Flange
- Screwed
- Hose

**Tube size**

- PG-1 TO PG-21

**Modification in connection**

- Standard conn.
- Modified meter conn.

**Accessories**

- Flow Switch (Proximity Single Point)
- Flow Switch (Proximity Double Point)
- Needle Valve
- Stainless Steel Frame
- Extra Long (Scale Length 500mm approx.)
- Weather Proof
- Long (Scale Length 250mm approx.)

**Typical Model No.**: SR FM FSPL

**REMARKS**

1. CONN. DIRECTION CODE R IS NOT AVAILABLE IN CASE OF MATERIAL CODE T & R
2. IP55 / IP65 IS NOT APPLICABLE IN CASE OF CODE FSPL & FSPHL
3. EL TYPE ONLY AVAILABLE FOR PG-4 TO PG-17
STANDARD RANGES - GLASS TUBE ROTOMETER

Data required for sizing:
- Name of Fluid
- Sp. Gr. Of Fluid at Operating Conditions
- Viscosity of Fluid at Operating Conditions
- Operating Pressure & Operating Temperature
- Measuring Range
- Material of Construction desired.

Loflo Rotameter

STD MODEL : MG5 - MG12

MODEL : MG1Z-MG8Z

PERFORMANCE
Accuracy : ± 3% Full flow
Rangeability : 10:1
Scale length : 75mm Approx.
Max. Temperature : Up to 120°C depending upon gland packing material
Max. Pressure : 100 psig. (High pressure on request)
Connection : 1/4" BSP (M), other on request
Direction of conn. : Back to Back (Rear) Bottom to Top (Vertical)
Optional Connections : Screwed, Hose, Compression fitting

MATERIALS
Measuring tube : Borosilicate Glass
Float : SS 316, Hard Rubber, Aluminium, Glass, PTFE
End fittings : AISI SS 316
Packings / Gaskets : Neoprene, Silicon, Viton, PTFE only for MG 1Z-4Z
Cover : Transparent Acrylic

Additional Accessories : Differential Pressure Regulator.
High and Low Flow Alarms
## Product Range Includes

- Variable Area Glass & Metal Tube Rotameters
- Rotameter Transmitters
- Bypass Rotameters
- Loflo Meters
- EUMAG Electromagnetic Flow Meters
- Eurekone Flow Transmitter
- Orifice Assemblies
- Bronkhorst-Hightech B.V., The Netherlands make Thermal Mass Flow Meters, Controllers and other products
- Katronic Technologies Ltd., UK make Ultrasonic Flow Meters
- In-line Density Meters
- Pressure & Temperature Gauges
- Sight Flow Indicators
- Instrument Manifolds
- Flow Switches
- Wheel Flow Meters Transmitters
- Valves

---

### Loflo Rotameter

**Model No.**

<table>
<thead>
<tr>
<th>Rate of Flow of Water at 20°C with SS 316 Float (SPM)</th>
<th>Rate of Flow of Air at Ambient Temp., 760 Torr Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No.</td>
<td>USGPM</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>MG-1Z</td>
<td>......</td>
</tr>
<tr>
<td>MG-1Z</td>
<td>......</td>
</tr>
<tr>
<td>MG-2Z</td>
<td>......</td>
</tr>
<tr>
<td>MG-3Z</td>
<td>......</td>
</tr>
<tr>
<td>MG-4Z</td>
<td>0.6-6</td>
</tr>
<tr>
<td>MG-6Z</td>
<td>1.0-10</td>
</tr>
<tr>
<td>MG-7Z</td>
<td>1.6-16</td>
</tr>
<tr>
<td>MG-8Z</td>
<td>2.5-25</td>
</tr>
<tr>
<td>MG-9</td>
<td>0.6-6</td>
</tr>
<tr>
<td>MG-10</td>
<td>1.0-10</td>
</tr>
<tr>
<td>MG-11</td>
<td>1.6-16</td>
</tr>
<tr>
<td>MG-12</td>
<td>2.5-25</td>
</tr>
<tr>
<td>MG-13</td>
<td>4-40</td>
</tr>
<tr>
<td>MG-14</td>
<td>0.6-6</td>
</tr>
<tr>
<td>MG-15</td>
<td>1.0-10</td>
</tr>
<tr>
<td>MG-16</td>
<td>1.6-16</td>
</tr>
<tr>
<td>MG-17</td>
<td>2.5-25</td>
</tr>
<tr>
<td>MG-18</td>
<td>4-40</td>
</tr>
<tr>
<td>MG-19</td>
<td>6-60</td>
</tr>
<tr>
<td>MG-20</td>
<td>10-100</td>
</tr>
<tr>
<td>MG-21</td>
<td>16-160</td>
</tr>
</tbody>
</table>

**Ranges with Sapphire Float**

**Ranges with Hollow Aluminum Float**

---

### Remarks

1. Connection direction code R is not available in case of float code T
2. Connection direction code R is applicable with AL / SS / SS frame only
3. Type of connection code F is available with only M / MG / SS frame material
4. Type of connection code F is not applicable for MG-1Z

---

**Typical Model No.**

- **S**
- **R**
- **F**
- **PG-S**
- **M**
- **Z**

---

**Model Identification Chart**

For Eureka make Glass Tube Rotameter

<table>
<thead>
<tr>
<th>Material of Construction</th>
<th>Stainless Steel</th>
<th>Mild Steel</th>
<th>PTFE Lined</th>
<th>Brass</th>
<th>Carbon Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe Material</td>
<td>S</td>
<td>M</td>
<td>T</td>
<td>B</td>
<td>Cs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inlet Outlet Connection Direction</th>
<th>Vertical (inlet Bottom, Outlet Top)</th>
<th>Side Conn.* / Rear Conn. / Inlet Bottom, Outlet Side*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>V</td>
<td>R</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of Connection</th>
<th>Flange</th>
<th>Screwed</th>
<th>Hose</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F</td>
<td>S</td>
<td>H</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tube Size</th>
<th>Mg-1</th>
<th>Mg-10</th>
<th>Mg-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>T0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Modification in Connection</th>
<th>Standard Conn.</th>
<th>Modified</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(M)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Flow Switch (proximity) High / Low Only Needle Valve Stainless Steel Frame Miniature Loflo Meters (mg 12-Bz)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Note: We reserve the right to modify the Design & Specifications without notice.