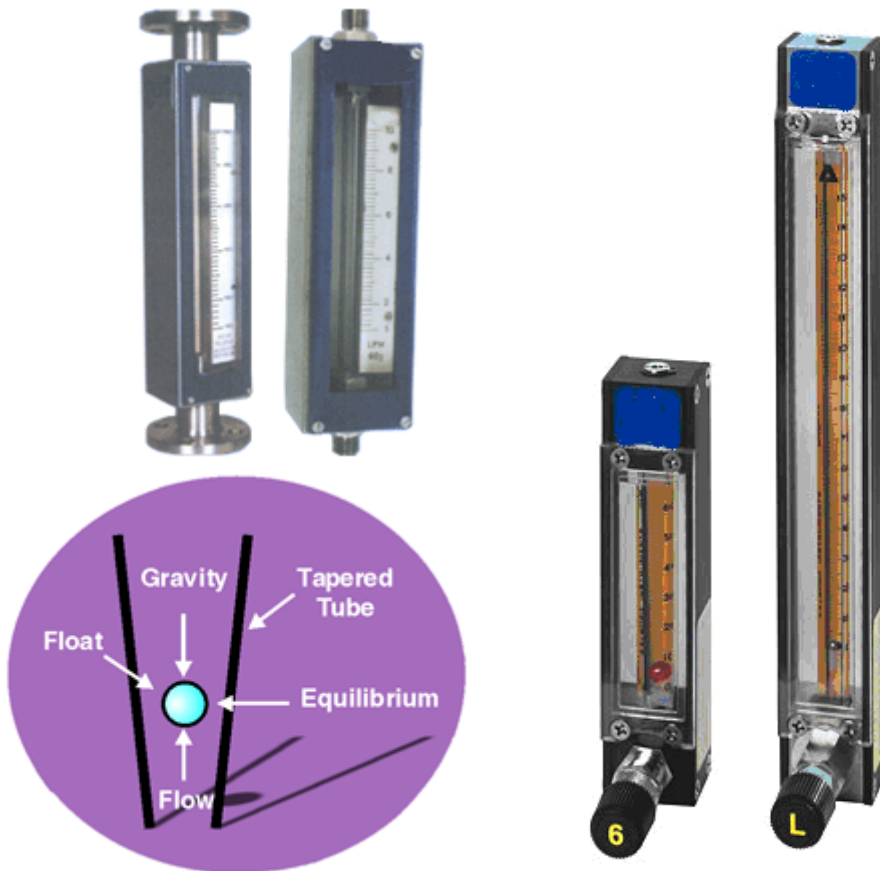




## Glass Tube Rotameter



### PRINCIPLE OF OPERATION:

As the Flow of Fluid Passes through the Tapered tube, The Float Rises, The Float Rising is a result of the fluid passing through the Tapered hole. The Flow Measurement is taken at the Point where the Float is in equilibrium between the upward buoyant force and the downward force of the Weight of the Float.

The Purge Type Rotameters with Wide Range of Applications Especially Suited for The Measurements of Small Liquid or Gas Flows.

### CONSTRUCTION:

The Main Components of The Miniature flowmeter are the measuring tube, The Float and the Indicator Part. As a Standard, The Wetted Parts are Manufactured from Acid & Corrosion Resistant stainless Steel. The Integrated Limit Value Switch ( as An Option) Serves for The detection and signalization of high and low flow Values.

## TECHNICAL DATA:

Std Connection: ¼ BSP  
Pressure Rating : 16 Bar  
Accuracy: +/- 2% FSD  
Rangeability:10:1  
Measuring Tube: Borosilicate Glass  
Shape of Float: Ball  
Fine Adjusting Valve: at inlet/Outlet.  
Endconnections : Rear/Rear  
Material of Construction: all Wetted parts, Body and Adjusting Valve in SS  
Packing: Neoprene, Viton, PTFE

## Operating Principle

Glass Tube Rotameter is basically a Variable Area Flow Meter. The differential pressure across the annulus area is constant and the flow rate is measured as a function of the annulus area. This area is displayed as the position of a "Float".

## Standard Features

- ▶ Various Material of Construction
- ▶ Line Size from 15 NB to 80 NB
- ▶ Heavy Duty Design with Maximum Visibility
- ▶ Ranges between 2.0 LPH to 25000 LPH
- ▶ Two Tone Powder Coated Excellent Finish
- ▶ No Threads in Body, Avoids Corrosion for Flanges End Connections With Lined
- ▶ Face-To-Face Distance : 500 mm
- ▶ Single Piece (jointless) PTFE / PP claded end connections ( Optional )
- ▶ Easy to Maintain and Replace
- ▶ Suitable for on Line Installation
- ▶ Measuring Span : 1:10
- ▶ Glass : Borosilicate
- ▶ Linear Scale
- ▶ Accuracy : +/- 2% of Full Scale

| <b>Parts ▼</b>           | <b>OPTIONS</b>                      |                    |              |
|--------------------------|-------------------------------------|--------------------|--------------|
| Enclosure                | MS- Powder Coated ,                 | SS- Powder Coated, | SS- Buffed , |
| Flange – NB              | 15, 25, 40, 50, 80                  |                    |              |
| Flange Specifications    | ASA-150, BS10-T-E, BS10 T-F, Din-10 |                    |              |
| MOC Wetted               | CS, SS304, SS316, CS-PTFE, CS-PP    |                    |              |
| Float – MOC              | SS316, PTFE, PVC, Aluminium         |                    |              |
| Flange – MOC             | CS, SS304, SS316                    |                    |              |
| PTFE Enve. Gland Packing | Nitrite , Silicon, Viton            |                    |              |

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