

GLASS TUBE ROTAMETER

Glass Tube Rotameter is a Variable Area Flow Meter. A rotameter consists of a tapered tube, typically made of glass, with a 'float' made of SS or PTFE. The differential pressure across the annulus area is constant. The float moves through the tapered tube up and down with respect to fluid flow. The vertical position of the float as indicated by scale is the measure of the instantaneous flow rate.

Specifications:

- Material of Construction : CS / SS 304 / 316 / PTFE
- Float : SS 316 / SS 304 / PTFE
- Tube : Glass Borosilicate
- Packing : PTFE / VITON / Silicon / Neoprene
- Enclosure : SS Buffed / MS Powder Coated / FRP
- Line Size from 15 NB to 80NB
- Ranges between 2.0 LPH to 25000LPH
- Face-To-Face Distance :500mm
- Accuracy : +/- 2% of Full Scale
- Measuring Span : 1:10
- Scale : Acrylic / Aluminum / SS

Various Features:

- Heavy Duty Design with Maximum Visibility
- Two Tone Powder Coated Excellent Finish
- No Threads in Body, Avoids Corrosion
- Easy to Maintain and Replace
- Suitable for on Line Installation
- Single Piece (Joint-less) PTFE/ PFA/ PP clad end connections

Optional Features:

Two-Wire Transmitter

TANSA has developed '2- Wire transmitter' for Glass Tube Rotameter. It can provide local indication along with 4-20 mA transmitter output which can be connected to PLC / DCS for controlling purpose. Transmitter is mounted on the glass tube while retaining visibility and the present local indication by the float and the scale. Transmitter output is two wire loop powered.

Technical Specification:

Transmitter Enclosure	: Dia Cast Aluminum - IP 66, Flameproof
Sensor Enclosure	: FRP
Supply	: 24VDC
I/P	: Float Movement
O/P	: 4 to 20mA

Latching type Switch

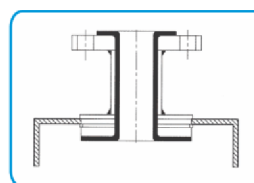
TANSA has developed 'Latching Type Switch'. Unlike the proximity switch, when the float passes up in front of the switch, the switch becomes open. Even if the float goes up beyond the level, the switch remains open, i.e it latches off. Unless the float comes down and goes below the level, the switch will not turn on. Thus, the switch is Bi-Stable with stable. The switch operates by sensing the direction of the float travel

Technical Specification:

Contact	: Bi-Stable
Supply	: 8V through NAMUR Switching amplifier
O/P	: NO and NC Contacts

Flow Range Chart (Fluid : Water, Temperature: AMB ; Pressure : ATM)

NB					Model No	With PTFE Float (LPH)	With SS 316 Float (LPH)	Max Pressure Drop in mmwc	Test Pressure
15	20	25	40	50					
					GTR 01	2 - 20	3 - 30	140	15
					GTR 02	3 - 30	6 - 60		
					GTR 03	4 - 40	10 - 100		
					GTR 04	6 - 60	20 - 200	350	15
					GTR 05	8 - 80	30 - 300		
					GTR 06	12 - 120	40 - 400		
					GTR 07	18 - 180	60 - 600		
					GTR 08	20 - 200	80 - 800	600	12
					GTR 09	40 - 400	100 - 1000		
					GTR 10	50 - 500	150 - 1500		
					GTR 11	80 - 800	250 - 2500		
					GTR 12	90 - 900	300 - 3000		
					GTR 13	100 - 1000	350 - 3500	900	9
					GTR 14	150 - 1500	400 - 4000		
					GTR 15	200 - 2000	600 - 6000		
					GTR 16	250 - 2500	700 - 7000	900	7
					GTR 17	400 - 4000	1000 - 10000		
					GTR 18	500 - 5000	1500 - 5000		
					GTR 19	600 - 6000	2000 - 20000	900	5
					GTR 20	800 - 8000	2500 - 25000		



PTFE - Single PC (No Joint)
Cladding 100% Spark Proof



Float with PTFE Ring avoids glass to metal contact and minimizes possibility of Glass Tube breakage

Data Required for Offer:

- Tag No.
- Material of Construction of Wetted parts
- Type of connection
- Flange Size/Rating
- Fluid
- Fluid Density/Sp. Gravity
- Viscosity at Operating Conditions
- Operating Pressure
- Operating Temperature
- Measuring Range