

GLASS TUBE ROTAMETER

DESCRIPTION

“FLOWTECH” Glass Tube Variable Area Flow Meters (Rotameters) are intended for general in line and By-Pass metering applications (i.e. for Gas & Liquid) where operating conditions are with the limitations of Glass metering tubes. These are the principle of Variable Area. The float moves freely up and down tapered borosilicate glass 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.

DESIGN FEATURES

- Dowel Pin, side plate construction
- Detachable flow scales
- Externally adjustable packing glands
- Connections can be rotated 360 degree at 90 degree
- Laminated safety glass shielding
- Scale length of 180-200 mm



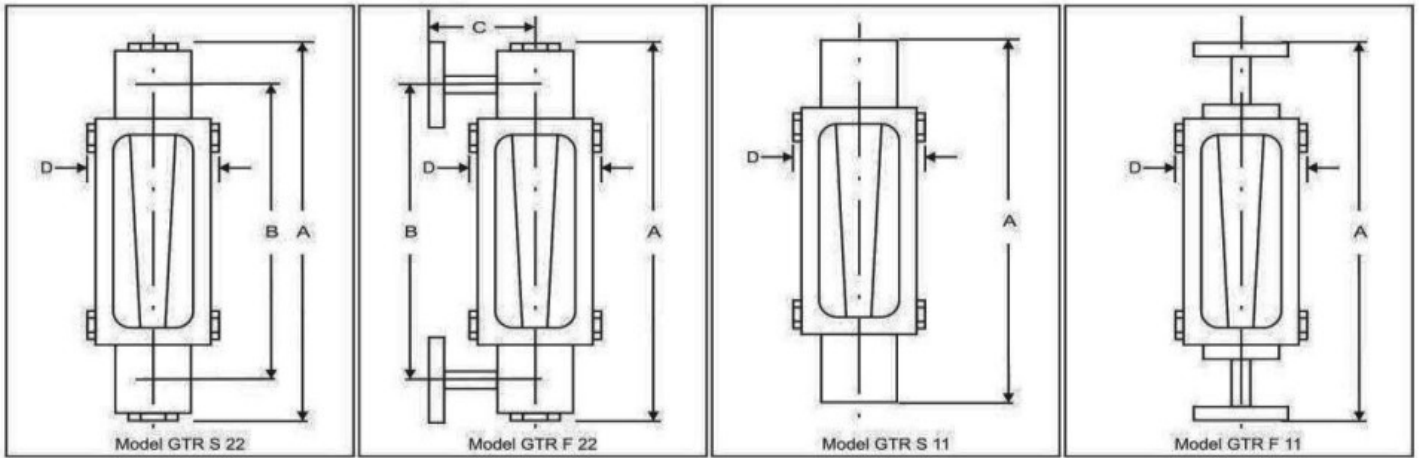
PERFORMANCE

- Accuracy** : +/- 2% F.S.D.
- Temperature Ratings** : Maximum Operating Temperature rating is 121 °C for Gas services and 93 °C for Liquid services.
- Repeatability** : 0.5 %
- Connections** : Flanged OR Screwed OR Triclover Joint OR Hose Nipple.
- Rangeability** : 10:1
- Enclosure** : IP 55 OR IP 65 on request.
- Scale length** : 180-200 mm.
- Pressure Ratings** :

Meter Size	Max. Operating Pressure (Kg/Cm2g)
15	25
20	25
25	15
40	12
50	10
80	07

MATERIALS OF CONSTRUCTION

- Tube** : Borosilicate Glass
- Float** : SS 316, PTFE, others on request
- Packings** : Neoprene, PTFE, Silicon, Viton
- Frame & Cover** : M.S. OR SS
- End Fitting** : M.S., C.S., SS304, SS316, CF-8M, CF8, C.I. PTFE Lined, SS PTFE Lined, PVC, others on request.
- Frame & Cover** : M.S. OR SS



OVERALL DIMENSIONS

Meter Size	Model GTR S 22 & Model GTR F 22			Model GTR S 11	Model GTR F 11	All Meters
	A	B	C	A	A	
15	475	450	100	400	500	90
20	475	450	100	400	500	90
25	475	450	100	400	500	90
40	475	450	90	400	500	90
50	475	450	90	400	500	90
80	475	450	90	400	500	90

CAPACITY TABLE – GLASS TUBE ROTAMETER

Meter Size	Tube Size	Water at Amb. Temp. in LPH		Air at 20° C & 760 Torr in SCFM		Pressure Drop in mm WC
		Minimum	Maximum	Minimum	Maximum	
15	1	4	40	0.90	9.00	140
	2	6	60	0.13	1.30	
	3	10	100	0.32	3.20	
20	4	16	160	0.50	5.00	360
	5	25	250	0.76	7.60	
	6	40	400	-	-	
25	7	60	600	-	-	650
	8	60	600	1.25	12.50	
	9	100	1000	1.90	19.00	
	10	160	1600	-	-	
40	11	250	2500	-	-	950
	12	160	1600	3.10	31.00	
	13	300	3000	5.00	50.00	
50	14	400	4000	-	-	550
	15	400	4000	7.60	76.00	
	16	600	6000	11.30	113.00	
80	17	1000	10000	-	-	950
	18	1000	10000	19.00	190.00	
	19	1600	16000	-	-	750
	20	2500	25000	-	-	