

KABIR INSTRUMENTS & TECHNOLOGY

Glass Tube Rotameter

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.

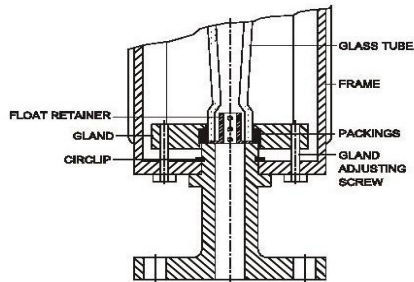


Materials of Construction

- 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 : $\pm 2\%$ of full flow
- Repeatability : 0.5%
- Rangeability : 10:1
- Scale length : 175-200 mm,
- Max. Temp. : Up to 200°C, depending upon gland packing material
- Connections : Flanged or Threaded
- Enclosure : IP 55 or IP 65 on request



	VERTICAL	REAR	NW	F	L	C	E	D	A	B
			15	500	400	440	90	55	95	90
			20	500	400	440	90	60	95	90
			25	500	400	440	115	65	120	115
			40	500	400	500	125	70	140	140
			50	500	450	500	150	70	155	160
			80	500	NA	500	170	NA	190	190
			80	600	NA	NA	NA	NA	NA	NA

Rate of Flow of Water at 20°C with SS 316 Float (LPH)	Rate of Flow of Air at ambient Temp., 760 Torr Pressure								
	USGPM	316SS Float (NLPH)	SCFM	PTFE Float (NLPH)	SCFM	Hard Rubber Float (NLPH)	SCFM	Glass Float (NLPH)	SCFM
.....	.....	1-10	0.001-0.01	.....	.....	.....	.....	2.5-25	0.0016-0.016
.....	.....	.....	.....	.....	.....	.....	.....	3-30**	0.0018-0.018
.....	.....	4-40	0.002-0.02	.....	.....	.....	.....	.....	.....
0.6-6	0.003-0.03	26-260	0.016-0.16	9-90	0.006-0.06	6-60	0.0038-0.038	13.5-135	0.0085-0.085
1.0-10	0.004-0.04	36-360	0.023-0.23	16-160	0.010-0.10	10-100	0.006-0.06	19-190	0.012-0.12
1.6-16	0.007-0.07	55-550	0.035-0.35	25-250	0.016-0.16	19-190	0.012-0.12	.....	.....
2.5-25	0.01-0.10	80-800	0.050-0.50	40-400	0.025-0.25	26-260	0.016-0.16	.....	.....
0.6-6	0.003-0.03	26-260	0.016-0.16	9-90	0.006-0.06	6-60	0.0038-0.038	13.5-135	0.0085-0.085
1.0-10	0.004-0.04	36-360	0.023-0.23	16-160	0.010-0.10	10-100	0.006-0.06	19-190	0.012-0.12
1.6-16	0.007-0.07	55-550	0.035-0.35	25-250	0.016-0.16	19-190	0.012-0.12	.....	.....
2.5-25	0.01-0.10	80-800	0.050-0.50	40-400	0.025-0.25	26-260	0.016-0.16	.....	.....
4-40	0.018-0.18	110-1100	0.070-0.70	65-650	0.041-0.41	50-500*	0.032-0.32	.....	.....
6-60	0.026-0.26	185-1850	0.115-1.15	100-1000	0.063-0.63	80-800*	0.050-0.50	.....	.....
10-100	0.044-0.44	300-3000	0.190-1.90	170-1700	0.107-1.07	130-1300*	0.082-0.82	.....	.....
16-160	0.07-0.70	500-5000	0.310-3.10	360-3600	0.225-2.25	185-1850*	0.115-1.15	.....	.....