

Description

The FME make Rotameters work on the principle of traditional variable area technology. The float moves freely up and down in the Ribbed borosilicate glass tube from bottom to top according to the fluid flow, the float takes a position where buoyancy forces of the float weight are balanced is proportion to Flow rate.

These FME make G-100 series meters combines ruggedness and simplicity in design to provide a versatile Glass tube rotameter suitable for a wide range of applications and typical installations.

Design Features

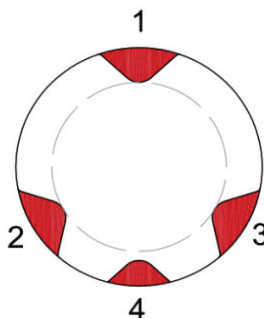
- ❖ Rugged Side plate and dowel pins construction.
- ❖ Heavy wall Rib guided (4 Ribs) metering tubes facilitate stable & accurate readings.
- ❖ Interchangeability of flow tubes and floats.
- ❖ Easy of installation, maintenance cleaning Process.
- ❖ Toughened window glasses and window frame construction will give unique look and safety.
- ❖ Direct reading scales, Optional mm scales.
- ❖ Vertical In-Line or Panel Mount.
- ❖ Low Pressure drop floats
- ❖ Flanged or Threaded connections.
- ❖ Horizontal or vertical connections.



4th RIB Technology for Metering Glass Tubes:

Introduced 4th rib technology in FME Make Rotameters for better Float stability and the excellent Scale span.

These glass tubes are made with Heavy wall Borosilicate Glass to withstand high pressures.



- 1, 2 & 3 – Ribs to guide the float.
 4 – Rib to maintain the scale span and accuracy.

Product Specifications

Accuracy	Standard: +/- 2% FSD, Optional: +/- 1% FSD
Repeatability	+/- 0.5 % FSD
Capacities	Refer Capacity Table / Consult Factory for Special Flow Rates
Pressure Rating	Refer Pressure Rating Table
Temperature Rating	1 Deg C to 90 Deg C
Dimensions	Consult Factory
Scales	Single or Dual detachable Aluminum plate. Nominal scale lengths: 150 MM & 250 MM
Optional Equipments	Needle Valve at Inlet / Out Let Panel Mounting Brackets

Material of Construction

Metering Tube	Ribbed Heavy Wall Borosilicate Glass
Floats	316SS, 304SS, Sapphire, Black Glass, PTFE, Tungsten Carbide
Float Stoppers	316SS, PTFE
Housing	Side plates: Powder Coated Aluminum or Steel. Window Frame: 304SS / Powder Coated Steel / Anodized Aluminum.
O rings / Packing	Neoprene, Viton, EPDM, PTFE, Buna-N.
End Fittings	Steel, 304 SS, 316 SS, 316L SS.
Connections	Flanged & Threaded - NPT (F), BSP (F)
Connection Orientation	Vertical – Vertical, Rear - Rear

Pressure Ratings

Meter Size	Pressure Rating (PSIG)
¼"	400
½"	350
¾"	200
1"	170
1-1/2"	100
2"	70

Capacities

Meter Size	Flow Rate (Air @ STP Condition)
¼"	0.1 to 65 SLPM
½"	20 – 400 SLPM
¾"	200 – 580 SLPM
1"	500 – 2000 SLPM
1-1/2"	1400 – 4000 SLPM
2"	3000 – 6500 SLPM
For individual Sizing consult factory	