

Rotameter



Product Details

- A rotameter is a device that measures the flow rate of fluid in a closed tube. It belongs to a class of meters called variable area meters, which measure flow rate by allowing the cross-sectional area the fluid travels through, to vary, causing a measurable effect.

Principle of Operation:

- The rotameter's operation is based on the variable area principle: fluid flow raises a float in a tapered tube, increasing the area for passage of the fluid. The greater the flow, the higher the float is raised. The height of the float is directly proportional to the flow rate. With liquids, the float is raised by a combination of the buoyancy of the liquid and the velocity head of the fluid. The float moves up or down in the tube in proportion to the fluid flow rate and the annular area between the float and the tube wall. The float reaches a stable position in the tube when the upward force exerted by the flowing fluid equals the downward gravitational force exerted by the weight of the float. A change in flow rate upsets this balance of forces. The float then moves up or down, changing the annular area until it again reaches a position where the forces are in equilibrium. To satisfy the force equation, the rotameter float assumes a distinct position for every constant flow rate. However, it is important to note that because the float position is gravity dependent, rotameters must be vertically oriented and mounted.

Technical Details



Model	DN(mm)	Range		Accuracy	°C	MPa
		LPH	CUM			
FM 15	15	10-100		±4%	0-60	≤1.0
		20-200				
		50-500				
		200-1200				
AE15	15	25-250				
		40-400				
		60-600				
		120-1200				
AE 25	25	100-1000	0.1-1.0			
		160-1600	0.16-1.6			
		250-2500	0.25-2.5			
		300-3000	0.3-3.0			
AE 32	32	400-4000	0.4-4.0			
		600-6000	0.6-6.0			
AE 40	40	600-6000	0.6-6.0			
		800-8000	0.8-8.0			
		1000-10000	1.0-10.0			
AE 50	50	1000-10000	1.0-10.0			
		1600-16000	1.6-16.0			
AE 65	65		5.0 - 25			
			8.0 - 40			
			12.0 - 60			

Material for Rotameter Parts

- Joint Fittings: PVC
- Male & Female thread: PVC
- Taper tube: PC
- Floats: ABS

Connection Mode of Rotameter

- Intubation connection
- Internal & external thread
- Panel mounting



Thanks!

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