

# ROTA METER

The Rotameter is a simplest form of fluid measuring instrument. It consists of a borosilicate tapered glass tube placed vertically with its smaller diameter at the bottom. The float used in the tube is made up of heavier non-corrosive substance, which resists the vertical flow of the fluid passing through the annular space between the tube and the head of float. The fluid passing through the orifice, balances the weight of the float in the metered fluid and in equilibrium position, indicates the flow rate of the fluid against a calibrated external scale fitted by the side of the tube.



## DESIGN FEATURES:

Range-ability	1 : 10
Construction type	Side Plate.
Scale	Detachable, direct reading.
Metering Tube	Tapered, borosilicate.
Interchangeability	Accepting with change of tube, floats and fluids.
Tube Sealing	Gasket compressed from out side or 'O' ring seal.
Piping Connection	Rota table 360° without disturbing the Instrument.
Enclosures	Weather and dust proof (IP-65 Type enclosures can also be provided on request).
Glass Tube Length	400 mm
Scale Length	275 mm Approx

## MATERIALS OF CONSTRUCTION:

Metering Tube	Borosilicate Glass.
Float	316SS, Aluminum alloys, Teflon. Loaded Teflon, Hastalloy-C etc.
Contact Portion (Body)	Stainless Steel as standard. Brass can be provided on request. (For Threaded connection), M. S. Rubber lined and Teflon Lined.
Flanges	M.S., C. S. with M. S. Spool, 316SS and 304SS with S. S. Spool also be provided. with FLANGES
Side Plates	M. S. epoxy Powder Coated
Optional	Stainless Steel.
Packing	Nitrile, Rubber, Viton or Teflon.
Float Stops	Stainless Steel.
Safety Shielding	Transparent clear Plastic / Glass at Front and Back.
Optional	IP-65 Type enclosures.
Painting	Necessary components are epoxy powder coated to prevent from environmental corrosiveness.

## ACCURACY

Accuracy of calibration for Standard Instruments is within  $\pm 2\%$ . Where higher accuracies are required, special calibration techniques are used to obtain accuracies within  $\pm 1\%$ . Repeatability is excellent



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