

ACRYLIC BODY ROTAMETER

FDI - ABR - 205



INTRODUCTION

ACRYLIC BODY ROTAMETER

Acrylic Body Rotameters are useful in measuring rate flow of liquids and gases. We offer acrylic body rotameters which are highest in accuracy. Main advantage is we directly use tapered tube in the acrylic plastic body itself. One more advantage is acrylic plastic is highly stable chemical resistant and gives glass like clearness which enables clear visualization of flow. In Acrylic Body rotameter, Flow range is calibrated. Acrylic Body Rotameters are generally used for Air, Water, LDO, and other non-corrosive Gases.

Acrylic Rotameter is a Variable Area Flow Meter. It consists of a tapered tube, typically made from acrylic block, with a 'float' made of SS or PTFE. The differential pressure across the annulus area is constant. The float moves through the tapered tube up and down with respect to fluid flow. The vertical position of the float as indicated by scale is the measure of the instantaneous flow rate.

FIDICON is a pioneer in the field of manufacturing Rotameter in India since 2002 years of designing, manufacturing, installation and service of the same. Acrylic body Rotameter manufactured by FIDICON are user friendly and easy to install. It comes in many ranges and can be tailor made as per the requirements of customers.

WORKING PRINCIPLE

The float moves upwards by a force obtained by multiplying the pressure differential by the maximum cross-sectional area of the float. Due to taper tube, as the float moves upwards, the fluid passing area increases as a result of which the differential pressure decreases.

The essential working part is a tapered flow tube precision machined inside the acrylic body. When flow occurs, the position of a float within the tube indicates flowrate on a calibrated scale engraved on the acrylic body. With integral construction, a needle valve and flow parts are built into acrylic body, resulting in a very compact and economical design.



APPLICATIONS

These meters with all plastic fitting to eliminate corrosion completely. The meters are useful for measuring flow of air, common gases, water and many organic chemicals. Excluding petroleum products. Applications include purging of gas lines, anaesthesia, laboratory instruments, leak detection, cable pressurization, industrial furnaces and chromatography etc.

- Water
- Pharma
- Chemical
- Fertilizers
- Power
- Petrochem
- Refinery

FEATURES

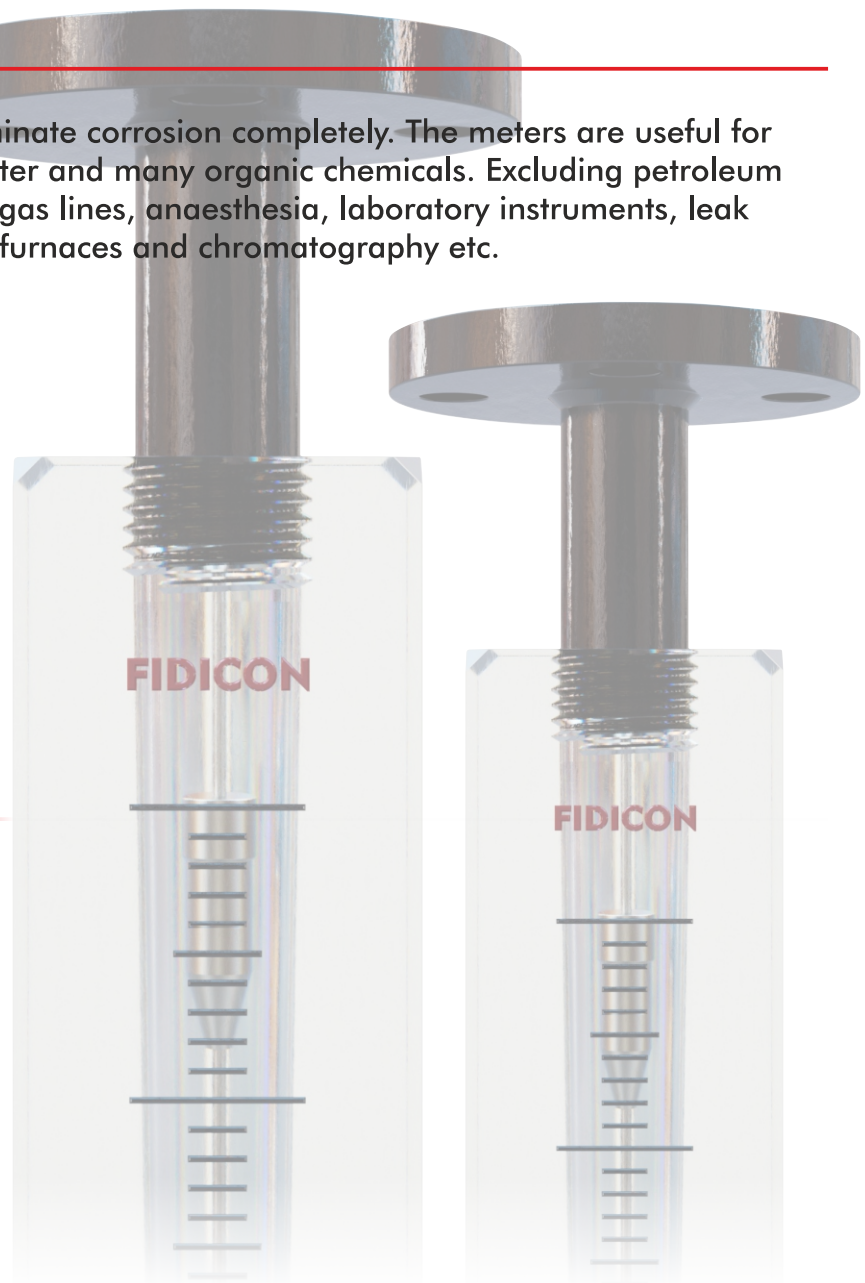
- Shatter proof acrylic body
- Suitable for Gas & Liquid Flow
- Light Weight, Compact
- Easy Projection Mounting
- Direct Reading Scale
- Best Visibility
- Neat Modular Appearance

MAINTENANCE

To clean, remove the top plug and remove the float. Wash the tapered hole and top plug with a mild liquid detergent and soft brush. Rinse all parts with clean water and dry thoroughly with clean air or nitrogen. Do not use solvents to clean this meter as they will attack the acrylic and destroy the meter.

RECOMMENDED DISPOSAL

- Give it back to us & we will take care of recycling & possible disposal.
- User can dis-assemble the product in multiple stage
- The above may be handed over (state pollution board), authorized re-cycler item-wise.





ENQUIRY SPECIFICATIONS:

- [1] Service Media Details.
- [2] Size/Connection
- [3] System Operating and Design Pressure.
- [4] System Operating and Design Temperature.
- [5] Material Specifications (Body, Internal)
- [6] Center To Center Distance/Connection Height

RECOMMENDED SPARES

- [1] Float

OTHER RANGE OF PRODUCTS

- [1] Flame Arrester
- [2] Breather Valve
- [3] Level Indicators
- [4] Rotameters
- [5] Emergency Relief Valve
- [6] Gauge Hatch
- [7] Strainers
- [8] Pressure Reducing Valve
- [9] Safety Relief Valve
- [10] Flowmeters
- [11] Level Switches
- [12] Pressure Reducing Station
- [13] Level Gauge, etc.



Any Query?

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