

EXPERIMENT NO.1

Flow measurement with the help of rotameter.

Theory:

Definition of Rotameter:

A rotameter is a device that measures the [volumetric 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.



Advantage:

- A rotameter requires no external power or fuel; it uses only the inherent properties of the fluid, along with gravity, to measure flow rate.
- A rotameter is also a relatively simple device that can be mass manufactured out of cheap materials, allowing for its widespread use.
- Since the area of the flow passage increases as the float moves up the tube, the scale is approximately linear.^[1]
- Clear glass is used which is highly resistant to thermal shock and chemical action.

Disadvantage:

- Because operation of a rotameter depends on the force of gravity for operation, a rotameter must be oriented vertically. Significant error can result if the orientation deviates significantly from the vertical.
- Due to the direct flow indication the resolution is relatively poor compared to other measurement principles. Readout uncertainty gets worse near the bottom of the scale.
- Since the float must be read through the flowing medium, some fluids may obscure the reading. A transducer may be required for electronically measuring the position of the float.
- Rotameters are not easily adapted for reading by machine; although magnetic floats that drive a follower outside the tube are available.

Rotameter Experiment Manual

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L. Demain, A.R. Allman**



Rotameter Experiment Manual:

LABORATORY MANUAL HYDRAULICS AND HYDRAULIC MACHINES R. V. RAIKAR, 2012-09-27 This manual presents 31 laboratory tested experiments in hydraulics and hydraulic machines This manual is organized into two parts The first part equips the student with the basics of fluid properties flow properties various flow measuring devices and fundamentals of hydraulic machines The second part presents experiments to help students understand the basic concepts the phenomenon of flow through pipes and flow through open channels and the working principles of hydraulic machines For each experiment the apparatus required for conducting the experiment the probable experimental set up the theory behind the experiment the experimental procedure and the method of presenting the experimental data are all explained Viva questions with answers are also given In addition the errors arising during recording of observations and various precautions to be taken during experimentation are explained with each experiment The manual is primarily designed for the undergraduate degree students and diploma students of civil engineering mechanical engineering and chemical engineering

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