

## 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.<sup>[1]</sup>
- 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 Lab Report

**L Cohen**



**Rotameter Experiment Lab Report :**

**Scientific and Technical Aerospace Reports** ,1965      **Chemical engineering laboratory problems** B. E. Lauer,1962      *Chemical Engineering Education* ,2002      **U.S. Government Research & Development Reports** ,1971  
Nuclear Science Abstracts ,1965      Government Reports Announcements & Index ,1978-11      Proceedings American Society for Engineering Education. Conference,1994      **Bibliography of Scientific and Industrial Reports** ,1970  
Annual Conference Proceedings American Society for Engineering Education. Conference,1994      **Federal Register** ,1997-12      Government Reports Announcements ,1972-05      **Evaluation Test on a Landfill Gas-fired Flare at the BKK Landfill Facility, West Covina, CA** ,1986      *Research Report* ,2000      *Pre- and Postcombustion NOx Control for Biogas Engine with Microwave Energy* Chang Yul Cha,William Burr,CHA Corporation,Matthew Lee,2017      **Journal of Fermentation Technology** ,1980      **Journal of the Air Pollution Control Association** ,1978      **Paper Trade Journal** ,1959      **Measurement of Diesel Solid Nanoparticle Emissions Using a Catalytic Stripper for Comparison to Europe's PMP Protocol** Heejung Jung,Thomas D. Durbin,Kent Johnson,Zhongqing Zheng,2012      **Paper - Air Pollution Control Association** Air Pollution Control Association,1957      **Industrial Laboratories** ,1954

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