

VENTURI METER SET-UP (EE-1690)

The apparatus consists of One pipe line contain an acrylic Venturimeter. The pressure tapings from the Venturimeter are taken to differential manometer to measure pressure difference. In Venturimeter the flow can also be regulated by the bypass valve provided at the downstream of water. Present set-up is self-contained water re-circulating unit, provided with a sump tank and a centrifugal pump etc. flow control valve and by-pass valve are fitted in water line to conduct the experiment on different flow rates. Flow rate of water is measured with the help of measuring tank and stop watch.

SCOPE OF EXPERIMENTATION:

- To determine co-efficient of discharge through Venturimeter.
- To demonstrate the use of Venturimeter.

UTILITIES REQUIRED:

- Water Supply.
- Drain
- Electricity 0.5Kw, 220VAC, Single Phase.
- Floor Area 1.5x0.75m.



TECHNICAL DETAILS

- Venturimeter : Material Clear Acrylic Compatible to 1" Dia. Pipe.
- Water Circulation : FHP Pump, Crompton/Standard make.
- Flow Measurement : Using Measuring Tank with Piezometer
Capacity 25Ltrs.
- Sump Tank : Capacity 50Ltrs.
- Stop Watch : Electronic.
- Control Panel Comprises of :
- Standard make On/Off Switch, Mains Indicator, Etc.
- Tanks will be made of Stainless Steel.
- The Whole set-up is well designed and arrangement in good quality painted structure.