

Product Name :
Flow Meter Demonstration

Product Code :
NEGEMG138



Description :

Flow Meter Demonstration

The equipment consists of a Venturi meter, variable area meter and orifice plate, installed in a series configuration to permit direct comparison. A flow control valve permits variation of the flow rate through the circuit. Pressure tapings are incorporated so that the head loss characteristics of each flow meter may be measured. These tapings are connected to an eight tube manometer bank incorporating a manifold with air bleed valve. Pressurisation of the manometers is facilitated by a hand pump. The circuit and manometer are attached to a support framework which stands on the working top of the Hydraulics Bench. The bench is used as the source of water supply and for calibrating volumetric each flow meter.

Experimental Capabilities:

- Directly comparing flow measurement using a Venturi meter, variable area meter and orifice plate
- Calibrating each flow meter using the volumetric measuring tank of the bench
- Comparing pressure drops across each device

Specifications:

- Venturi meter, variable area meter and orifice plate with control valve
- Pressure tapings to measure head loss from each meter
- Manometer range: 0 to 440mm
- Number of manometer tubes: 8
- Orifice plate diameter: 20mm
- Variable area meter: 2 to 20 litres/min

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