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Product Name :
Flow Measurement Test Set

Product Code :
LBNY-0005-10300060



Description :

The flow measuring instruments are connected in series and all except the measuring tank are arranged on a water proof panel. The pressure drop is measured by differential pressure using manometers. Pressure tapping is by valves with quick connection. Flow Measurement Test Set is a bench top self contained water circulating unit for studying the various flow measuring instruments including primary flow measuring devices. Flow rate is obtained from a water meter reading and a stop watch. Water tanks are behind the panel. Flow rate is varied by a flow control valve. Measurement of flow by a primary flow measuring devices is by coefficient of discharge which is determined from a pressure drop across the device and a flow rate.

Experiments:

Determination of coefficients of discharge for Venturi meter, orifice meter and Pitot tube and compare the flow rates with those from water meter, variable area flow meter and measuring tank.
Comparison of differential pressure at various flow rates for Venturi meter, orifice meter, Pitot tube, and variable area flow meter.

Technical Specification :

Technical Data:

Venturi meter, orifice meter, pitot tube.
Primary flow measuring devices, clear plastics
Other flow measuring devices
Water meter and a stop watch, rotameter, measuring tank.



Laboratory Instrument India