IPC-001 CALIBRATION OF VENTURIMETER AND ORIFICEMETER ROTAMETER APPARATUS

RANGE OF EXPERIMENTS TO BE CARRIED OUT:

1. To Calculate the venturimeter coefficient of given venture meter and compare with the reported value in literature.
2. To predict the flow rate by using average value of coefficient of venturimeter
3. To Calculate the Orificemeter coefficient of given Orificemeter and compare with the reported value in literature.
4. To predict the flow rate by using average value of coefficient of Orificemeter
5. To predict the flow rate by using Rotameter

TECHNICAL DESCRIPTION :

The experimental unit consist of venturimeter and Orifice meter ,Rotameter fixed in the pipe. a water sump tank with self-priming monoblock centrifugal pump. The flow of water can be controlled by a valve.. A measuring tank is provided for measurement of discharge of water through the Section. The Differential Pressure across the venturimeter and Orifice meter is measured by using U tube Manometer.This system is complete closed circuit type and easy to move due to wheels.This system is complete closed circuit type and easy to move due to wheels.

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DIMENSIONS AND WEIGHT :

Size :1.5 m.(L)x 0.7 m(W) X 1.2m (H)

Weight :Approx. 40 Kg

SERVICE REQUIRED :

Power Supply : 230v, AC ,Single Phase , 50HZ

Water :80 ltr

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual

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