

Product Name :
Orifice and Mouthpieces Apparatus

Product Code :
FML0011



Description :

Orifice and Mouthpieces Apparatus

Technical Specification :

An orifice is an opening made in the side or bottom of tank, having a closed perimeter, through which the fluid may be discharged. A mouthpiece is short tube fitted to a same size circular opening provided in a tank so that fluid may be discharged through it. Orifice and mouthpiece are used to measure the rate of flow of liquid. The apparatus is designed to measure the co-efficient of discharge of orifice & mouthpiece.

The apparatus consists of a supply tank, at the side of which a universal fixture for mounting orifice or mouthpiece is attached. A centrifugal pump supplied the water to supply tank. Head over the orifice/mouthpiece is controlled by a by pass valve provided at pump discharge. A measuring tank is provided to measure the discharge. A gauge for measuring X and Y co-ordinates of jet from the orifice is provided, which is used to calculate C_v of orifice.

SPECIFICATION: -

- [1] Supply Tank - 0.4 X 0.3 X 0.5m height
- [2] Orifice - 8mm and 10 mm.

- [3] Mouthpiece
- (a) $L/D = 4$
- (b) $L/D = 1$
- (c) Bordas mouthpiece.
- (d) Convergent mouthpiece.
- [4] X-Y gauge for orifice jet co-ordinates.
- [5] Measuring tank of suitable capacity OR a calibrated water flow meter.
- [6] Sump tank of suitable capacity.
- [7] 0.5 HP pump with valve.

- **A technical manual accompanies the unit.**

SERVICES REQUIRED:

- [1] Flow surface 2 mtrs. X 1 mtr. X 1.5 mtrs. height.
- [2] 230 Volts, 5 Amp. Stabilized AC. Power Supply, Civil Engineering Laboratory Equipments Suppliers, Mechanical Engineering Laboratory Equipments Suppliers

, Engineering Teaching Aids, Models Equipments Theory of Machine Lab Suppliers, Hydraulics Laboratory Equipment and Apparatus

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