

Product Name :
Orifice & Mouthpieces Apparatus

Product Code :
Technical0056

Description :

Orifice & Mouthpieces Apparatus

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 Cv of orifice.

SPECIFICATIONS:

[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.

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