



An orifice is an opening made in the side or bottom of a tank, having a closed perimeter, through which the fluid may be discharged. A mouthpiece is a 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 supplies the water to the 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.

#### SPECIFICATIONS:

- Supply Tank - 0.4 X 0.3 X 0.5m height
- Orifice - 8mm and 10 mm.
- Mouthpiece
  - (a) L/D = 4
  - (b) L/D = 1
  - (c) Bordas mouthpiece.
  - (d) Convergent mouthpiece.
- X-Y gauge for orifice jet co-ordinates.
- Measuring tank of suitable capacity OR a calibrated water flow meter.
- Sump tank of suitable capacity.
- 0.5 HP pump with valve.

A technical manual accompanies the unit.

#### SERVICES REQUIRED:

- Flow surface 2 mtrs. X 1 mtr. X 1.5 mtrs. height.
- 230 Volts, 5 Amp. Stabilized AC. Power Supply.

Note: Specifications are subject to change.

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