



Product Code . JL-FML-10029

Orifice and Mouthpieces Apparatus

Description

Orifice and 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:-

Supply Tank – 0.4 X 0.3 X 0.5m height

Orifice – 8mm and 10 mm.

Mouthpiece

(a) LID = 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.

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{ "@context": "http://schema.org/", "@type": "Product", "name": "Orifice and Mouthpieces Apparatus", "image": "https://www.jlabexport.com/images/catalog/product/904748012orifice-and-mouthpieces-apparatus.jpg", "description": "Orifice and 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:- Supply Tank – 0.4 X 0.3 X 0.5m height Orifice – 8mm and 10 mm. Mouthpiece (a) LID = 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.

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