

Product Name :
Venturi Meter & Orifice Meter Apparatus

Product Code :
NEGEMG124



Description :

Venturi Meter & Orifice Meter Apparatus

Recirculating design with supply tank & measuring tank.

- Non corrosive tanks & piping.
- Transparent Venturi meter & Orifice meter made in acrylic

DESCRIPRION:

The Venturi meter & Orifice meter Apparatus is designed for calibration of water flow meters. Set up consists of a venturi meter & orifice meter clear acrylic fitted in pipe. Each flow meter has two pressure ports which can be connected to a mercury manometer to measure pressure difference at inlet & throat. This pressure difference is used to calculate the water flow rate theoretically. Water is supplied from the sump tank by centrifugal pump & measuring tank is provided to measure the water flow rate. The entire setup is mounted on a strong

steel frame. By comparing the theoretical & measured flow rate, the discharge coefficient for flowmeter can be determined.

EXPERIMENTAL CAPABILITIES:

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To study water flow measurement using venturi meter & orifice meter. • To determine discharge coefficient for flowmeter. • To compare venturi meter & orifice meter.

TECHNICAL SPECIFICATIONS:

- **Venurimeter:** Convergent – Divergent type, Inlet 1" BSP, Throat Diameter 16 mm
- **Orificemeter:** Inlet 1" BSP, Throat Diameter 15 mm
- **Manometer:** U tube mercury manometer, Range: 0 – 300 mm
- **Sump Tank:** 100 Ltrs, made in PVC
- **Measuring Tank:** 32 Ltrs, Made in PVC, with level indicator
- **Pump:** Monoblock Centrifugal Pump, 230 V AC
- **Piping:** Fixed PVC piping with necessary valves
- **Base Frame:** Made of M.S. Square Tubes & Sheets, Welded & Powder coated.

Naugra Export

Website: www.naugraexport.com, **Email:** sales@naugraexport.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, **Phone:** +91-0171-2643080, 2601773