



FEATURES:

- Compact, comprehensive, sturdy design
- Fully instrumentation for experimentation of Venturi-meter.
- Comprehensive teaching package as optional attachments

Tesca Venturi-meter is a self-sufficient unit to study the characteristics of Venturi-meter. The calibration of the meter can be studied by comparing it with actual flow measured in a measuring tank. The Venturi is made of clear acrylic material to understand its operation phenomenon. Pressure tappings are provided at appropriate locations for measurement of differential pressure with Mercury U tube manometer.

Variable flow can be achieved for various reading sets. For the particular flow we can compare the reading.

The Test set up of the Trainer is integrated with the Hydraulic Bench. The test set up system will be supplied with venturi-meter.

Specifications:

- Venturi tube: inlet and outlet diameter 26 mm NB, made of transparent plastic / perspex / plexi – glass base
- Centrifugal Pump: ½ H.P.

Note: Specifications are subject to change.

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- Sump Tank (50Ltrs).
- Measuring tank and electronic level measurement system with digital stopwatch.
- U tube manometer: having graduated screen of height 400 mm approx.
- Pipe and fittings made of PVC / corrosion resistant plastic.
- M.S. Stand with FRP Top

Technical Specifications:

- Maximum flow rate: Nominally 27 L.min⁻¹
- Inside diameter of Venturi inlet: 26 mm
- Inside diameter of Venturi throat: 16 mm
- Inside diameter of Venturi outlet: 26 mm
- Pressure tappings: 11 Manometer tube range: 0 to 400 mm
- Accessories: Outlet tubing, pipe clips

OPTIONAL ACCESSORIES

- Multimedia computer based training package on Flow meters
- Cut sections of valves & pumps
- Transparencies & Slides
- Data Acquisition System for Fluid Mechanics Experiments

Experiment possibilities:

- Calibration of Flow meter.
- Flow measurement using Venturi-meter
- Demonstration of use of flow meter & its comparisons.
- Determination of flow coefficient.
- Comparison of pressure drops across venturi-meter.
- Study of Coefficient of Discharge Cd

SERVICE REQUIRED AT SITE

Electric Supply 230V 50Hz. With proper earthing.

Tap Water supply & drainage