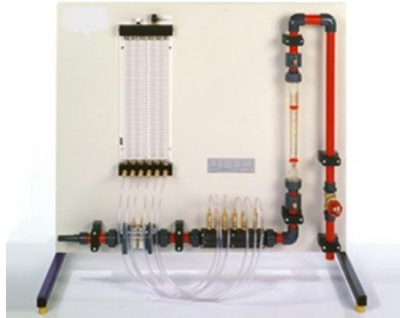




Methods OF Flow Measurement

Category: Pneumatic, Hydraulic & Fluid Mechanics · Model reference: MZM-6012



SPECIFICATIONS

DESCRIPTION:

The Flow Meter Demonstration Apparatus contains different flow rate measurement devices that are clearly laid out with the associated pipework on a metal sheet. So that the function can be observed, the measuring devices are made of transparent plastic. The flow rate is measured using a nozzle, orifice, venturi flow meter and variable-area flow meter. To determine the flow rate using a nozzle/orifice and with the venturi flow meter, a differential pressure measuring device is required. This is included in the form of a multiple tube manometer so that the pressure curve along the venturi flow meter can also be displayed. The apparatus is placed on the Basic Hydraulics Bench, this provides the water supply to the unit.

Learning objective

- Comparison of different flow rate measuring
- Devices
- Flow rate measurement with nozzle/orifice
- Flow rate measurement with venturi flow meter
- Throughput measurement with variable-area flow
- Meter
- Determination of corresponding flow rate
- Coefficients
- Familiarization with differential pressure measurements
- Calibration of flow rate measuring devices

Specification

- Investigation of different methods of flow rate measurement, for use with MZM Basic Hydraulics Bench
- Pipework made of plastic
- Variable-area flow meter 1600L/h
- Differential pressure measurement on venturi flow meter, orifice and nozzle

Technical Data

- 6-tube manometer: 390mmWC
- Variable-area flow meter: 1600L/h
- Min. diameter venturi flow meter: 14mm
- Nozzle diameter: 18.5mm
- Orifice diameter: 14mm

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