



## Bernoulli's Principle Demonstration

Category: Pneumatic, Hydraulic & Fluid Mechanics · Model reference: MZM-6011



### SPECIFICATIONS

#### DESCRIPTION:

##### DATA SHEET UNDER REVISION

The entire experimental set-up is clearly laid out on a metal panel, this is fitted to the MZM Basic Hydraulics Bench. The bench provides the water supply for carrying out the experiment. The experimental set-up comprises a measurement section with a transparent venturi tube, the associated pipework and 2 pressure measuring devices. Six measurement connections on the venturi tube enable the static pressure along the pipe through which the water is flowing to be indicated on a multiple tube manometer. The total pressure is measured with a pitot probe and displayed on a second tube manometer. The flow rate is determined using the volumetric tank on the bench.

##### Learning Objectives / Experiments

- Demonstration of Bernoulli's law
- Display of the pressure characteristic using the venturi tube
- Determination of the flow rate factor

#### Specification

1. Experimental set-up for demonstrating Bernoulli's law, for use with the HM 150 Basic Hydraulics Bench
2. Venturi tube made of transparent plastic, divided into 6 segments, each segment with measuring connection
3. 2 tube manometers

##### Technical Data

- 6 tube manometer
- Measuring range: 290mmWC
- Tube manometer
- Measuring range: 370mmWC
- Dimensions and Weight

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