



CAVITATION DEMONSTRATION

RF 017

Description:

Cavitation refers to the formation of vapor bubbles in flowing fluids due to strong low pressure. As the flow velocity increases, the static pressure of the fluid falls to the vapor pressure and leads to the formation of vapor bubbles. The bubbles are carried along by the flow and implode if, with decreasing velocity, the static pressure rises above the vapor pressure of the fluid. To visualize the flow processes the experimental unit includes a Venturi nozzle made of plexiglass. There are 2 pressure measuring points on the Venturi nozzle: at the inlet and at the narrowest point. The flow rate and the pressures can be adjusted via two ball valves. In this unit cavitation phenomenon can be observed when small bubbles begin to appear.

Specifications:

- Venturi nozzle with 2 pressure measuring points
- Rotameter
- Storage tank
- Ball valves for flow rate controlling
- Positive and negative pressure gauges
- Centrifugal pump
- Thermometer
- Wheeled carbon steel structure
- Installation and training video included
- Instructions manual included
- 10-year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Investigation of cavitation processes in a Venturi nozzle
2. Obtaining pressure loss vs. flow rate diagram
3. Obtaining cavitation pressure

Required For Operation:

- 220V Single Phase Electricity
- Distilled Water
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%



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FLUID MECHANICS



Dimensions (L*W*H) mm:1700 x 550 x 1500

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