

CAVITATION DEMONSTRATION Mod. HB19/EV

DESCRIPTION

The unit contains a Venturi tube made of a transparent acrylic material. When water flow rate increases, pressure at the throat is reduced complying with the Bernoulli equation until the vapour pressure of the liquid is reached. Under these conditions small bubbles of vapour are created and they collapse violently generating this phenomenon called cavitation. The unit is equipped with two pressure gauges and a vacuum gauge in order to measure the pressure before and after the throat of the Venturi tube. In order to adjust the rate and the pressure there are two valves placed at the inlet and outlet of the Venturi tube.



TRAINING PROGRAM:

- Observation of the phenomenon of cavitation in a liquid
- Comparing theoretical and effective pressure in cavitation conditions
- Observation of air release due to gases in the liquid
- Demonstrating how cavitation is reduced by the rise of the static pressure in a liquid

TECHNICAL CHARACTERISTICS:

- AISI 304 stainless steel structure
- Transparent venturi meter
- 2 Bourdon pressure gauges, range 0-2,5 bar
- Vacuum gauge, range -1-0 bar

Dimensions: 650 × 400 × 300 (h) mm
Weight: 17 kg

REQUIRED

HYDRAULIC BENCH MOD. HB/EV OR HB-E/EV
- NOT INCLUDED -
or water supply (@2 bar) and drain



SUPPLIED WITH

**THEORETICAL-EXPERIMENTAL
HANDBOOK**



OPTIONAL

SPREADSHEET SOFTWARE
For fluid mechanics equipment
Mod. SW-HB19/EV

