

HM 170.23

Pressure distribution on a cylinder



Learning objectives/experiments

- determination of the pressure distribution on a body immersed in a flow

Specification

- [1] model for determining the pressure distribution on a cylinder immersed in a flow
- [2] cylinder, $d=50\text{mm}$, $h=75,5\text{mm}$
- [3] bracket made of corrosion-resistant steel, $d=4\text{mm}$
- [4] display of the static pressures on the tube manometers HM 170.50 or in the electronic pressure measurement HM 170.55

Technical data

Number of pressure measuring points

- 13

LxWxH: 50x50x280mm

Weight: approx. 0,5kg

Scope of delivery

- 1 cylinder
- 1 set of hoses
- 1 manual

Description

■ model for determining the pressure distribution on a cylinder immersed in a flow

The HM 170.23 model is used to determine the pressure distribution on a cylinder immersed in a flow. For this purpose there are measuring holes in the surface of the cylinder; these holes are arranged in such a manner that mutual interaction is virtually excluded. The cylinder is connected to a mounting rod at

one end, the connections for the pressure lines are also located here. The model is placed in the force sensor. The static pressures are displayed on the tube manometers HM 170.50 or in the electronic pressure measurement HM 170.55.

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Required accessories

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| 070.17000 | HM 170 | Open wind tunnel |
| 070.17050 | HM 170.50 | 16 Tube Manometers, 600mm |
| or | | |
| 070.17055 | HM 170.55 | Electronic Pressure Measurement, 18x 0...500Pa |