

# HM 170.23

## Pressure distribution on a cylinder



### 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.

### Learning objectives/experiments

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

### Specification

- [1] determining the pressure distribution on a cylinder immersed in a flow
- [2] accessory for the wind tunnel HM 170
- [3] bracket made of corrosion-resistant steel
- [4] 13 measuring points with hose connections
- [5] display of the static pressures on the tube manometers HM 170.50 or in the electronic pressure measurement HM 170.55

### Technical data

#### Cylinder

- Ø 50mm, H=75,5mm
- Number of pressure measuring points
- 13

#### Bracket

- corrosion-resistant steel
- Ø 4mm

LxWxH: 50x50x280mm

Weight: approx. 0,5kg

### Scope of delivery

- 1 cylinder
- 1 set of hoses
- 1 manual

# HM 170.23

## Pressure distribution on a cylinder

Required accessories

HM 170	Open wind tunnel
HM 170.50	16 tube manometers, 600mm
or	
HM 170.55	Electronic pressure measurement for HM 170