

# HM 160.29

## Sluice gate



### Learning objectives/experiments

- free discharge under a sluice gate
- submerged discharge under a sluice gate
- observation of jet contraction (vena contracta)
- observation of downstream hydraulic jumps

### Specification

- [1] sluice gate for the experimental flume HM 160
- [2] sluice gate with lateral sealing lips
- [3] manual height adjustment
- [4] scale to read the height of the gate opening

### Technical data

#### Gate

- weir plate made of PVC
- head adjustment: 0...120mm

LxWxH: 160x120x530mm

Weight: approx. 3kg

### Scope of delivery

- 1 sluice gate
- 1 set of accessories
- 1 manual

### Description

#### ■ flow under a sluice gate

Sluice gates are movable control structures. The water flows under the gate. A sluice gate is a vertical wall causing backwater in the flume. Sluice gates are often used to ensure a minimum upstream discharge depth at varying discharge, e.g. for shipping.

The gate opening of the sluice gate HM 160.29 and therefore the discharge under the gate can be manually adjusted with a handwheel.

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Required accessories

HM 160                    Experimental flume 86x300mm