

HM 161.29

Sluice gate



The illustration shows a similar unit

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 161.29 and therefore the discharge under the gate can be manually adjusted with a handwheel.

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 161
- [2] sluice gate with lateral sealing lips
- [3] height adjustment using handwheel
- [4] scale to read the height of the gate opening

Technical data

Gate

- weir plate made of PVC
- head adjustment: 0...400mm

LxWxH: 420x820x700mm

Weight: approx. 10kg

Scope of delivery

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

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Required accessories

HM 161 Experimental flume 600x800mm