

# HL 962.04

## Standard chemicals pump with magnetic clutch



### Learning objectives/experiments

- in conjunction with HL 962, HL 962.30 and HL 962.32
  - ▶ operation of a standard chemicals pump with magnetic clutch
  - ▶ recording the pump characteristic
  - ▶ leak testing
  - ▶ alignment of pump and drive

### Specification

- [1] single-stage centrifugal pump with magnetic clutch as accessory for installation in HL 962
- [2] drive and water supply provided by HL 962
- [3] permanent-magnetic synchronous drive inside pump
- [4] pump technical requirements according to ISO 5199

### Technical data

Pump [at nominal speed: 2900min<sup>-1</sup>]

- max. flow rate: 12m<sup>3</sup>/h
- max. head: 39m
- power consumption: 3,7kW

Connecting flange

- delivery side: DN32
- intake side: DN50

LxWxH: 625x240x300mm

Weight: approx. 60kg

### Scope of delivery

- 1 pump
- 1 manual

### Description

- hermetic centrifugal pump according to ISO 5199
- accessory for installation in assembly stand HL 962

Magnetic drive pumps are used primarily in process engineering to pump aggressive, toxic and flammable liquids. Leakage of such liquids could result in major problems. Its design means it is completely leak-tight, even at continuous operation and under difficult usage conditions.

The viscosity of the delivered liquid is a key criterion in selecting a pump, as it determines the coupling torque to be transmitted. The torques transmitted by magnetic couplings are limited. As a result, magnetic drive pumps are not suitable for all operating conditions and media.

The pump is a fully self-contained centrifugal pump with no shaft seal. It is fitted with a permanent-magnetic synchronous drive complete with clutch. Drive and water supply are provided by the assembly stand HL 962.