MVH 400



Technological study bench of the industrial valves.

DESCRIPTION

- The valve maintenance bench MVH 400 allows to visualize the patterns of use as well as the main features of 4 large industrial valves families.
- The didactic interest of MVH 400 is directed towards various levels and fields of study
- Equipment provided with technical documentation of the valves and different components, pedagogical and instruction manual.
- Utility: single phase 230V
- Dimensions (L*W*h in mm): 2000*800*2000mm
- Weight: 250kg approx



PEDAGOGICAL APPLICATIONS*

(*Depending on kits retained)

- Hydraulic and mechanical study of a ball valve
- Hydraulic and mechanical study of a butterfly valve
- Hydraulic and mechanical study of a diaphragm valve
- Hydraulic and mechanical study of a piston valve
- Identification of the main roles of the valves per family (flow rate regulation / circuit selection
- Manual settings
- Assisted settings (electrically controlled)
- Settings regulated (controlled by regulator
- Highlighting of the interest of the regulated valve operation in relation to manual setting
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MVH 400



Objective of the application:

<u>The technological study bench of industrial valves</u> is a bench intended for training technicians on the understanding of the operating principle of large industrial valves families, their construction technology, as well as their use in manual or regulated setting.

Technical description:

The bench :

- A <u>metallic structure</u> of anodized aluminum on braked swivel wheels.
- A <u>capacity tank</u> 100L approx with in isolation valve.
- A volumetric group motor pump 8 bars- 2m3/hr mini
- Safety <u>relief valve</u>
- A transparent PVC pipe
- <u>6 parallel circuits of valves characterization</u>
- Insulation of each circuit by ball valves
- A membrane valve allows modulation of output pressure of motor pump
- All the different circuits are collected for a fluid return to the main tank of the machine.
- 1 flowmeter with analog transmitter towards regulator
- 1 manometer for indicating the output pressure of the volumetric pump

Electrical box:

- Disconnector
- Circuit breaker with differential
- Protection circuit breakers
- Analog input flow rate regulator 4-20mA- front setpoint, and regulating outlet
- Control pushbutton on /off pump, start stop Regul ...

Valves :

- A manual ball valve
- A motorized ball valve
- A butterfly valve
- A membrane valve
- A piston valve
- A controlled piston valve for flow rate regulation

All valves are mini sizes DN65, and up to DN 100

Mechanical construction kit:

A valve kit planned for the study of mechanical engineering technology is provided. Each valve is equipped with a specific aluminum support which can be placed for example on a table. The bodies of the valves as well as some internal parts are modified (cut) to visually comprehend the technological of the valves

- A ball valve
- A butterfly valve
- A membrane valve
- A piston valve

These valves are integrated on aluminum supports for easier manipulation.

Dimensions (L*w*h in mm): 2000*800*2000

<u>Weight</u> : 250kg approx <u>Utility</u> : Electrical supply 230V single phase – 50Hz