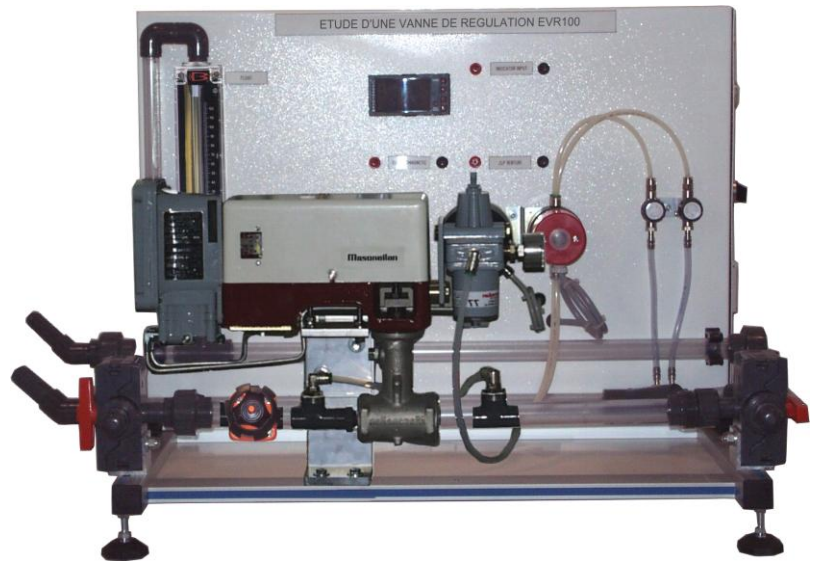


Study of an industrial regulation valve

DESCRIPTION

- The unit is delivered complete with instrumentation, technical documentation, and instructions.
- Designed and manufactured to industrial standards.
- This unit is designed for various levels and fields of study.
- The inlets and outlets can be connected by female safety plugs - \varnothing 4 mm
Option :
Utility module
- It is possible to connect this unit in series with another unit of the same range. The valve is used to activate the system.



SUGGESTED APPLICATIONS

- Illustration of theoretical concepts such as
 - Definition of the flow rate coefficient of a regulation valve
 - Ratio between Cv and Kv
- Determination of the coefficient of Kv flow rate
 - With or without any positioner
 - For a linear or exponential characteristic
 - For various configurations of the seat/flap
- Graphing the characteristics of the regulation valve
 - Flow rate as a function of the control
 - Differential pressure as a function of the control
 - Influence of the positioner on the linearity, hysteresis

Erreur! Liaison incorrecte.

UTILITIES

Electricity : 230 VAC – single-phase

Water : 10 L/min – 3 bar (44 psi)

Compressed air : 6 bar (90 psi) maximum

DIMENSIONS AND WEIGHT

Length : 780 mm

Width : 570 mm

Height : 590 mm

Weight : 40 kg

A – Compressed air

B – Water return

C – Water supply

Variable section flow meter (1)

Accuracy $\pm 1.6\%$ of the full scale

Regulation valve (2)

Stainless steel body CrNiMo 1,4581

Collar DN 15

Seat and flap CrNiMo (3 sets)

Exponential and linear characteristics

Kv = 0.1

Distance 15 mm

Tools for mounting/dismounting

Pneumatic servomotor (3)

Diaphragm area: 120 cm²

Diaphragm NBR

0,2...1 bar for distance of 15 mm

Communication positioner Hart (4)

Connections 1/4 NPT

Control : 4-20 mA

Growing/damping action sense

Differential pressure sensor (5)

Silicium monocrystal cell

Digital resonator

Accuracy : $\pm 0.075\%$

3-way Manifold

Digital local display

Current generator (6)

4-20 mA with selector switch and indicator

1/4-turn valve for connection in series (S)