

Product Name :
Hydraulic Servo System

Product Code :
AR171



Description :

Hydraulic Servo System

Technical Specification :

Hydraulic Servo System

Self-contained training system of a complete hydraulic position control loop with adjustable loading conditions
Oil circuit with hydraulic unit, hydraulic accumulator, 2 manometers, control valve and hydraulic cylinder to move a weighted carriage

Operation of the electromagnetic control valve for position control by servo amplifier

Servo amplifier with adjustable gain

All control variables available as voltage signals

Potentiometric displacement sensor

Adjustable load conditions on carriage using 2 springs with hand wheel and adjustable damping

Low-friction ball bearing-mounted carriage

Mobile steel profile trolley with built-under unit

Software for data acquisition via usb under windows 10

Technical data:

Hydraulic unit

Power output: 1,1kw

Flow rate: 4,3L/min

Head: 1500m

Tank capacity: 10L

Hydraulic accumulator capacity: 2L

Accumulator charging valve: max. 40L/min
Hydraulic cylinder
Piston diameter: d=40mm
Stroke: 150mm
Mass moved: 50kg
Control valve NG6
Nominal flow rate: 24L/min
Activation: $\hat{A}\pm 10V$
Potentiometric position sensor
Measuring range: 150mm
Output: 0 $\hat{A}\pm 10v$
400V, 50Hz, 3 phases

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