



Control Lab Equipment - Control Valve Characteristics Trainer (ULP-23)



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Control Valve trainer comprises of globe type control valve ($\frac{1}{2}$ ") with diaphragm type Pneumatic actuator. The control valve is of linear / Equal% type. The setup comprises of water pump with necessary flexibal piping, Water tank, I to P converter, Air regulator fitted on a table top powder coated metal frame.

Digital 4 – 20mA variable current source is provided to control the I/P converter. Rota meter is provided to measure the flow rate at which changes as per the valve opening. Detail Manual will be provided to conduct experiment.

SPECIFICATION

Valve Type	: Globe valve $\frac{1}{2}$ " Body CI/SS
Control Type	: Liner or Equal % (or both as per order)
Travel Length	: 15 to 18mm
Actuator	: Pneumatic actuator with Positioner input pressure 3 to 15 PSI
Pressure Controller	: I to P Converter, input 4 to 20 mA, Output 3 to 15 PSI inlet Pressure 30 PSI
Water Circulation	: 0.5HP Monoblock pump with necessary tubings
Flow Sensor	: Rotameter 50 to 1500 liters
Storage Tank	: SS tank of capacity 20 liters approximately
Power	: 230V +/-10% @ 50 Hz
Mounting Frame	: Table top Powder coated Metal frame Dimension(650 x 500 x 700) (L x B x H) approximately
Accessories (Optionl)	: Air compressor - Turbine flow meter in leiu of Rotameter - LVDT with Displacement Indicator for Stem travel measurement

Salient Features

1. Table top model doesn't require much space in the lab.
2. Stand alone unit (except air supply) to work without any external resources.
3. Ideal for students to study characteristics of control valves.