

## CONTROL VALVE CHARACTERISTICS

**Make : ETHER**

**Model No : EE-1690**

### DESCRIPTION

The setup is specially designed for various experimental and demonstrative capabilities. The product consists of Pneumatic control valves of Linear and Equal % type. The Stainless Steel water tanks with pump are provided for continuous water circulation. The rotameter is used for the flow measurement. The pressure at the valve inlet is measured with the help of manometer. The air regulator and pressure gauge is provided for regulating air supply. These units along with necessary piping and fitting are assembled in a painted MS structure. Recirculated water line design provided

### EXPERIMENTATION

- Inherent Characteristics of Control Valve.
- Installed Characteristics of Control Valve.
- Flow Co-efficient (Cv) of Control Valve.
- Hysteresis of Control Valve.
- Rangeability of Control Valve.

### UTILITIES REQUIRED

- Electricity supply: 230 VAC, 50Hz, 1 phase.
- Compressed Air Supply: 1CHM at 2 Bar
- Water Supply.

### TECHNICAL DETAILS

- Control Valve : 3 Nos.
- Characteristics : Linear, Equal (%) & Quick Opening.
- Type : Pneumatic
- Size : ½"
- Actuator : 15 Sq. Inch.
- Stroke : 14 mm
- Input : 3-15 PSIG.
- Water Tank : Material Stainless Steel, Capacity 25 Litres.
- Water Circulation : FHP Pump, Champion/Standard Make.
- Overhead Tank : Material Stainless Steel, Capacity 10 Ltrs.
- Flow Measurement : Rotameter.
- Pressure Drop Measurement : By Single Column manometer
- Pressure Regulator : 0-2 kg/cm<sup>2</sup>
- Pressure Gauge : Bourdon type 0-2 kg/cm<sup>2</sup>
- Piping : Size ½"
- An ENGLISH instruction manual will be provided along with the Apparatus
- The whole assembly is housed in a god quality painted structure.

