

**KPC-06****CONTROL VALVE CHARACTERISTICS TRAINER**

**KPC-06** Control Valve Characteristics trainer is designed for understanding the basic control valve principles and its flow characteristics, mounted on Aluminum profile rack with sturdy table top flat panel. . It consists of pneumatic control valves of linear, equal% & quick opening for type, MS water tank with pump for continuous water circulation and rotameter for flow measurement. An arrangement is made to measure pressure at the valve inlet in terms of mm of water. An air regulator and pressure gauge is provided for the control valve actuation. In case of additional optional requirement a valve positioner is fitted on linear valve.

**Specifications**

- Trainer having control panel should provided in 40X40mm Aluminum profile rack with sturdy table top flat panel.
- Control valve (Linear) Type: Pneumatic; Size: 1/2", Input: 3–15 psig, Air to open, Valve positioner fitted.
- Control valve (equal %) Type: Pneumatic; Size: 1/2", Input: 3–15 psig, Action: Air to close,
- Control valve (quick opening) Type: Pneumatic; Size: 1/2", Input: 3–15 psig, Air to open,
- Rotameter 0-200 LPH
- Overhead tank
- Sump tank for water storage
- Pressure indication Tube with graduated scale at control valve inlet
- Pump Fractional horse power, type submersible
- Air Regulator Range 0-2.5 kg/cm<sup>2</sup>
- Pressure gauge Range 0-2.5 kg/cm<sup>2</sup>
- 230 +/- 10 VAC, 50 Hz, 1 phase with On/Off Switch.
- Optional: Mini compressor

**Range of Experiments**

- Study of valve flow coefficient
- Study of inherent characteristics
- Study of installed characteristics
- Study of hysteresis of control valve
- Study of range ability of equal % control valve
- Study of valve positioned

*Note : Specifications can be altered without notice in our constant efforts for improvement.*