



Key features

- Illustrates the concept of feedback Level control
- User Friendly, Self Explanatory Systems.
- Leak proof Safety Measures, sturdy piping.
- Enhanced Electrical Safety Considerations.
- Training Manual & Mimic Charts for Operation Ease.
- System Frame with Caster Wheel Arrangement for ease in movement.
- M.S. powder coated cubical plant with standard Instrument Mountings.
- Inbuilt Safety Measures to avoid improper usage.

Technical Specifications

- Sump tank- Material: Stainless Steel, 1.5 mm thick / P.P.5mm thick, Capacity: 30 liter, with top cover, Dimension: 1 ft (L) X1ft (W) X 1 ft (H).
- Level tank- Material: P.P. 5mm thick, Capacity: 10 liter, Dimension: 6" (L) X6" (W) X24" ft (H).
- Piping - .75" GI, Class B/SS Piping (Optional), with .75" SS ball valves: 6 No
- Centrifugal Pump- .5 H.P., 1 ϕ 230 V AC supply, Surface mounting
- Level Transmitter - Type: Capacitance type/D. P. Transmitter/Ultrasonic - Input: 0-500 mm, Output: 4-20 mA, Supply: 24 V DC, 100 mA. Type: 2-wire, Type, Mounting: Top 2" screwed Connection/flange connection.
- Pneumatic Control Valve - Size: .75", Type: Two way Globe type (Air to Close), Cv: 5 US GPM, with diaphragm actuator, equal% characteristics, Flange connection : PCD : 60 mm, ID: 16 mm, OD: 90 mm.
- Rotameter- Range: 100-1000 LPH, Glass Tube Type / Acrylic body. Connection: .75", Bob

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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material: SS 304, Mounting: Inlet- Bottom, Outlet- Top.

- Level Switch- Float operated, Float Material: SS304, Switching Current: 0.5A, Switching voltage: 24 VDC Switch Action: Reversible, Weight: 150 Gms
- E/P Converter - Input: 4-20 mA, Output: 3-15 psi, Connection: . "NPT / BSP, Supply: 2.1 Kg/cm².
- A.F.R /F.R.L. UNIT- Air Filter, Regulator & Lubricator, 0-10 Kg/cm² with pressure gauge, Connection ." NPT/BSP.
- Power Supply: - 24 V DC, 3 A, Size: 48mm×126mm×68mm.
- Electrical Control Panel - MS Powder coated panel with switches, indicator, test Points, controller on front facia, UK 2.5 Terminal Connectors mounted on DIN rail channel, Use of 1sq mm multistrand wire with proper insulated Lugs, Feruling & neat wire dressing & clamping, Wires & power cables are seated through 1"×1"PVC cable tray. Dimension: 1ft (L) ×1ft (W) ×1ft (H)

Range of Experiments-

- Study of single loop Feedback Proportional (P), Integral (I) and Derivative control (D) actions.
- Study of operation and calibration of transmitters, I/P converter and Control Valve.
- Study of OPEN LOOP/CLOSE LOOP TUNNING & AUTO TUNNING of controller.
- Study of STEP response & Transient response of controller (process curve).
- Study of tuning and operation of PID controller.
- Study of stability of single loop Level Control System.
- Configure microcontroller based controller to give manual output, changing controller modes

System Dimension - 3.5 Ft. (L) X 2 Ft. (W) X 5.5 Ft. (H)

Weight: Approx. 70 Kg

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