



The Basic Hydraulic Trainer (52286) outlines the basic Principle of Hydraulic Control System, hydraulic Control System Components & its applications.

Features

- Compact Ergonomic Design.
- ISO Symbol for each mounted components.
- User Friendly, Self Explanatory Systems.
- Leak proof Safety Measures, sturdy piping & Robust Construction.
- Training Manuals mimic Charts for Operation Ease.
- System Frame with Caster Wheel Arrangement for ease in movement.
- Inbuilt Safety Measures to avoid improper usage.
- Wall mounting assemblies of hydraulic actuator & self-reciprocating cylinder.
- QRC couplings provided, Tubing for circulation of pressure (Hose Pipe Tubing)
- Manifold for distribution.
- Oil Hydraulic power pack for power supply. .
- Optional component are available to allow fault operation and diagnosis training.
- Hydraulic motor & Hydraulic Accumulator (Optional).

Experiment

- Study of fundamental principles of Hydraulics & its applications.
- Study of Meter-in Circuit & Meter-out circuit.
- Study of Bleed-off Circuit.
- Study of Transverse & Feed Circuit.
- Study of Speed Control, Pressure Control & Flow Control.
- Study of Direction Control.
- Study of Hydraulic valves
- Study of Hydraulic Actuators.
- Study of sequencing operation using Pressure Sequence Valve.
- Study of Hydraulic Power Pack.
- Study of Hydraulic Accumulator & Hydraulic Motor (Optional).

Services Required

- Electric supply 1 ϕ 230 V AC / 3 ϕ supply of 415 V, 50 Hz suitably used for direct on line starting of an induction motor

Note: Specifications are subject to change.

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Technical Specification

No.	Item Name	Technical Specifications
1	Single Acting Cylinder	Bore: 40 mm x Stroke: 75mm/100mm, Mounting: Foot.
2	Double Acting Cylinder	Bore: 40 mm x Stroke: -75mm/ 100mm, Mounting: Foot.
3	Directional Control Valves	4/3 way Hand Lever valve, -1 No. 4/2 way Hand Lever valve, -1 No.
4	Flow Control Valve	¼" (F), Square Body.
5	Pressure Relief Valve	¼", 60 Kg/cm ² .
6	Block Manifold	¼", 4 ways.2No.s
7	Male Connector	¼"Quick Release Couplings.
8	Hydraulic Hoses	10 No.s
9	Non Return Valve	1 No. , ¼"
10	Drain Plug	Magnetic type
11	Pressure Gauge	Range- 100 Kg/cm ² , Dial Size: 50/60 mm, Glycerin Filled.
12	Oil Hydraulic power pack	MS Powder Coated Oil Tank, Capacity: 25 Liters. with Oil Level Indicator, Gear Pump: 3-5 LPM, 40/60 Bar, Breather, Oil filter & suction, Electric Motor: Single Phase, ½ HP/ 1HP, 230VAC / 3φ, ½ HP/ 1 HP, 415V AC with DP Switch/DOL starter
13	Pressure Sequence Valve	¼" (F), Square Body, 60kg/cm ² .
14	Hydraulic Motor (Optional)	3 LPM,1/4"
15	Hydraulic Accumulator (Optional)	Capacity : 0.075 Liters, mWP bar: 250 bar, Weight: 0.62 Kg, Connection: ½" BSP
16	Needle Valve (Optional)	1/4", 1 No.
17	Meter-in Circuit & Meter Out Circuit	
18	Bleed-off Circuit	
19	Transverse & Feed Circuit	
20	Pulley Arrangement to carry load applied to the actuator, i.e., Double Acting Cylinder (Optional)	
21	System Dimension- 3.5 Ft. (L) X 2Ft. ((W) X 4.5 Ft (H)	

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