

SAP E&C HYDRAULIC TRAINER (SAP-38A)

Hydraulic Circuit Trainer outlines the basic Principle of Hydraulic Control System, hydraulic Control System Components & its applications.



Photo – Hydraulic Trainer

Technical Specification: -

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|------------------------------------|--|
| ❖ Single Acting Cylinder: - | Bore: 40 mm × Stroke: 100mm, Mounting: Foot. |
| ❖ Double Acting Cylinder: - | Bore: 40 mm × Stroke: - 100mm, Mounting: Foot |
| ❖ Directional Control Valves:- | 2 Nos, 4/3 way & 4/2, 1/4" Hand Lever Operated |
| ❖ Solenoid Valve (Optional): - | 2 Nos, 4/3 way & 4/2 way, 1/4" solenoid Operated |
| ❖ Flow Control Valve: - | 1/4" (F), Square Body. |
| ❖ Pressure Relief Valve:- | 1/4", 60 Kg/cm ² |
| ❖ Block Manifold: - | 1/4", 4 ways. |
| ❖ Male Connector: - | 1/4" Press Fit / QRC(optional). |
| ❖ Pressure Gauge: - | 100 Kg/cm ² , Dial Size: 50 mm, Glycerin Filled. |
| ❖ Hydraulic Motor (Optional): - | 3 LPM, 1/4" |
| ❖ Drain Plug: - | Magnetic type. |
| ❖ Hydraulic Accumulator (Optional) | Capacity : 0.075 Ltrs,
mWP bar: 250 bar
Weight: 0.62 Kg
Connection : 1/2" BSP |
| ❖ Oil Hydraulic power pack: - | MS Powder Coated Oil Tank, Capacity: 25 Liters.
with Oil Level Indicator, Gear Pump: 3 LPM,
with Strainer Filter. 70 bar , Breather, Oil filter & suction,
3 Phase, 1/2 HP, 415 AC Electric Motor with DOL starter. |

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Features:

- ❖ Compact Ergonomic Design.
- ❖ 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.
- ❖ M.S. powder coated cubical plant with standard Instrument Mountings.
- ❖ Inbuilt Safety Measures to avoid improper usage.

System Specifications:

- ❖ Wall mounting assemblies of hydraulic actuator & self-reciprocating cylinder (Optional)
- ❖ Single acting cylinder (bore diameter: 40mm, stroke length: 100mm)
- ❖ Double acting cylinder (bore diameter: 40mm, stroke length: 100mm)
- ❖ Hydraulic motor(optional)
- ❖ Proximity type sensors (Optional), Direction control valves, 4/2, 4/3 way, etc.
- ❖ Press fit/QRC (optional)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.

Range Of Experiments:

- ❖ Study of fundamental principles of Hydraulics & its applications.
- ❖ Study of Pressure Control.
- ❖ Study of Direction Control.
- ❖ Study of hydraulic valves
- ❖ Study of Flow Control.
- ❖ Study of Cylinder Control.
- ❖ Study of Hydraulic Power Pack.
- ❖ Study of Hydraulic Control.

Services Required:

- ❖ Three-phase supply of 415 V 50 Hz suitability used for direct on line starting of a induction motor.

System Dimensions: 2.5 Ft. (L) X 2Ft. ((W) X 3.5 Ft (H)

Note:

All descriptive matter and illustrations are intended to give only a general idea of the equipment. Detailed specifications may be altered at the company's discretion without any notice.

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