

HYDRAULIC TRAINER KIT



Product Description :

Microline Hydraulic Trainer kit Platform explores students & industry professionals to the principles of Hydraulic and compressed Oil devices. It tells, how components manage, command, direct or regulates pneumatically. All types of Hydraulic controls are explained in the Platform. Microline Hydraulic Trainer Platform has Hydraulic components which can be used for the study of Hydraulic. There is a wide range of experiments which can be performed on the Platform.

Product Features:

Hydraulic Trainer Kit, each consisting of the following matching components and accessories:-

- I. Hydraulic Power pack with (1) external gear pump having a delivery rate of 2.5lpm, (approx.) @ 1400rpm operating pressure 60bar, coupled to a single-phase AC motor (230 V AC) having start capacitor and ON/OFF switch and overload protection, (2) pressure relief valve adjustable from 0 – 60 bar, (3) oil reservoir.>5 liters capacity having sight glass, drain screw, air filter, and P and T ports.
Trolley with Frame, No. of wheels - 4, Two fixed & two swivel type. Load mounting capacity: 500 kg
- II. Pressure relief valve pilot-operated
- III. Drip tray. Steel size 1160mm x 760mm.
- IV. pressure Gauge Glycerin-damped, indication range of: 0-100 bar : 5nos.
- V. four- way distributor with five ports, equipped with a pressure gauge
- VI. Single and Double acting hydraulic cylinder with a control cam, piston diameter 20 mm, piston rod diameter 12 mm, stroke length 200mm.
- VII. Hydraulic motor: Type: Gear motor / Piston motor Direction of rotation: Bi-directional Normal Operating pressure: 40 bar, Max. Pressure: 100 bar
- VIII. Mounting kit for weight for realizing pulling and pushing load
- IX. Flow meter – 1 no Type: Acrylic hone type flow meter with scale, Rotameter, Working Pressure: around 40 bar
- X. 3/2- way directional control valve with hand lever actuation.
- XI. 4/2-way directional control valve with hand lever actuation.
- XII. 4/3- way directional control closed-center position, with hand lever actuation
- XIII Proximity sensor: 2 no Type: Contact less Proximity sensor PNP type, Operating voltage: 24 V DC
- XIV. Non-return valve.
- XV. pilot-operated check valve pilot to open.
- XVI. One-way flow control valve with integrated check valve.
- XVII. T-connector with self sealing coupling nipples (2 nos.) and quick coupling socket (1 no.)
- XVIII. Profile plate, anodized aluminum, 100x700 mm, with carriers, mounting frames and mounting accessories

Scope of Learning

To Study Hydraulic Power Pack & Its Components

- To Study Operation Of Different Hydraulic DCV
- To Study Operation Of Hydraulic Check Valve
- To study Operation of Hydraulic Motor.
- To Study Operation Of low Control Valve
- To Study Operation Of Pressure Relief Valve.
- To Test Following Hydraulic Circuits
- To Study Regenerative Circuit
- To Study Speed Control Of Linear Actuators
- To Study Transverse & feed Circuit
- To Study Sequencing Circuit

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