

Product Name :
Nauga Lab Electro-Hydraulic Trainer

Product Code :
NLAB-EDUCNCLAB110029



Description :

Nauga Lab Electro-Hydraulic Trainer

Technical Specification :

Hydraulic Components

Hydraulic Power pack with following features

Operating pressure 40 bar approx., Flow rate 4-8lpm approx.

Hydraulic Tank capacity 20 liters

Geared pump coupled with induction motor 2HP 220V AC, 50 Hz, and mounted externally over the tank with anti-vibration pads

Having non-return valve, pressure relief valve

Different type of valves

4/3 Double solenoid valve AC operated

4/2 Single solenoid valve AC operated

4/3 Way hand lever valve (Manual)

Flow control valve and Pressure reducing valve (Manual)

Pressure gauges 0-1500Psi - 3nos.

Pressure gauges (glycerin filled) to measure the pressure at Input Line

Reduced pressure line at Cylinder 1

Reduced pressure line at Cylinder 2

Hydraulic Cylinders - 2nos.

Double acting cylinder (Stroke length 100mm & diameter 32mm)

Piston rod: Chrome plated and hardened

Objective:-

Study of different type of hydraulic components

Extension and retraction of double acting hydraulic cylinder in a different way

Using hand lever valve and flow control valve

Using single solenoid valve and flow control valve

Control the direction of hydraulic motor using double solenoid valve manually and using micro controller

Cylinder moment using solenoid valve can be done automatically using micro controller

Hydraulic pipe for fittings:-

Connection type 3/8", Length 600mm - 15nos

Connection type 3/8", Length 1000mm - 2nos

Hydraulic motor:-

Type: Gear motor and Bi-directional

Electronic Controller

220 V AC operated

8051 CPU, Memory 64kB Flash

Line indicator

DOL starter start/stop button for Induction motor

Double solenoid control switch (Manual and Automatic)

Single solenoid control switch (Manual and Automatic)

Push buttons for manual control for actuators I, II, & III

USB cable connector

Power requirement: 220VAC +10%, 50Hz

Weight: -

65Kg Approx. (Main Control Unit)

70Kg Approx. (Hydraulic Power Pack)

Dimensions (mm): 900(L) x 380(B) x 670(H)

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