

BASIC ELECTRO-HYDRAULIC TRAINING SET (EH103)

Description

The Basic Electro-Hydraulic Training Set is a comprehensive educational tool designed to bridge the gap between electrical and hydraulic engineering. Key elements of the set include hydraulic cylinders, pumps, solenoid valves, electrical control units, sensors, and a variety of connectors. The set is designed to help users grasp the principles of combining electrical and hydraulic systems for efficient automation and control.

Able to learn : -

- Use of electrical button switch and limit switch
- Use hydraulic solenoid valve
- Understanding the operation of a relay
- Understanding the basic electrical circuit
- Understanding the hydraulic circuit diagram
- Construct the basic electrical control circuit
- Construct electrical latching circuit
- Construct timer delay control circuit
- Construct Limit switch control circuit
- Direct & indirect control of hydraulic cylinder
- Manual and automatic operation
- Pressure switch application and control
- Application and design of regenerative circuit
- Common hydraulic operation circuit in industries
- Maintenance of hydraulic system



Required Item

- Electro-Hydraulic basic working table (double side)
- Electro-Hydraulic components set
- Electro-Hydraulic control set
- Electro-Hydraulic Operation Manual (basic)
- Electro-Hydraulic Experiment Manual (basic)

Optional Item

- Computer Workstation
- PLC Training Kit

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Technical Specification : -

No	Component	Qty
1	Oil tray	1
2	Power unit 1 pump	1
3	Power unit overload protector	1
4	Flow measuring unit	1
5	Transparent double-acting cylinder	1
6	Double acting cylinder	1
7	Weight	1
8	Hydraulic motor	1
9	Pressure relief valve (directly actuated)	2
10	One-way flow control valve	2
11	Flow control valve (pressure compensative)	1
12	Check valve (1 bar)	1
13	Pilot actuated check valve	1
14	Pressure gauge	3
15	Pressure gauge with distributor	2
16	T connector	2
17	Hose 1500mm	2
18	Hose 1000mm	4
19	Hose 600mm	8

No	Component	Qty
20	Hydraulic hose hanger	1
21	Pressure remover	1
22	3/2 - way solenoid valve	1
23	4/2 - way solenoid valve	1
24	4/2 - way double solenoid valve	1
25	4/3 - way double solenoid valve (PABT blocked)	1
26	4/3 - way double solenoid valve (PT connected)	1
27	Power supply DC24V module	1
28	Pressure switch	1
29	Push-button switch module (3-fold)	1
30	Pilot lamp & buzzer module	1
31	Relay module (3-fold)	2
32	Digital time relay module (2-fold)	1
33	Electric limit switch (left)	2
34	Electric limit switch (right)	2
35	Inductive sensor	1
36	Capacitive sensor	1
37	Optical sensor	1
38	Cable set	1