

BASIC/ELECTRO-HYDRAULIC TRAINING SET

MODEL:FA-H103-DS-BE

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

- H103 Hydraulic working table (Double sided)
- Basic/Electro-Hydraulic components set
- Electro-Hydraulic control set
- Electro-Hydraulic Operation Manual
- Electro-Hydraulic Experiment Manual

Optional Item

- Computer Workstation
- PLC Training Kit

BASIC-HYDRAULIC TRAINING SET (EH106-B)

Technical Specification : -

No	Component	Qty
1	Hydraulic basic worktable	1
2	Three tier metal drawer	1
3	Aluminium profile Training Panel	1
4	Hydraulic Power Unit	1
5	Oil tray	1
6	Pressure relief valve	1
7	Pressure reducing valve	1
8	Double-acting cylinder	1
9	Hydraulic motor	1
10	Flow control valve (pressure compensated)	1
11	One-way flow control valve	1
12	4/2 - way hand level valve	1

No	Component	Qty
13	4/3 - way hand level valve (ABT)	1
14	4/3 - way hand level valve (PT)	1
15	Check valve	1
16	Pilot check valve	2
17	T-line return with gauge	1
18	P-line distributor with gauge	1
19	T connector	1
20	Shut-off valve	1
21	Hose 1500mm	2
22	Hose 1000mm	6
23	Hose 600mm	10
24	Hydraulic oil	1

ELECTRO-HYDRAULIC TRAINING SET/SIDE (HC-SS-E)

Technical Specification : -

No	Component	Qty
1	Oil tray	1
2	Power Pack Unit	1
3	Power unit overload protector	1
4	Double acting cylinder	2
5	Weight	1
6	Pressure relief valve	1
7	Pressure Reducing Valve	1
8	One-way flow control valve	1
9	Flow control valve	2
10	Check valve (1 bar)	1
11	Pilot actuated check valve	2
12	Pressure gauge	2
13	Pressure gauge with distributor	2
14	T connector	3
15	Hose 1500mm	2
16	Hose 1000mm	5
17	Hose 600mm	5
18	Hydraulic hose hanger	4
19	Pressure Remover	8

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