



ShouldShine

Jinan Should Shine Import And Export Co., Ltd.

ZMH1107 Electro Hydraulic Trainer



I. Introduction

It's suitable for schools, engineer training centers, factory training department etc.

Through this trainer, students can master hydraulic components structure, hydraulic circuit control theory, hydraulic circuit design, and hand on ability for hydraulic trainer.

This trainer is flexible and students can design their own hydraulic circuit.

II. Technical parameter

- (1) DC power: input AC 380V,50Hz Output: DC 24V/3A
- (2) Wheel: 4, 2 lockable with brake, 2 not lockable
- (3) Hydraulic station:
nominal volume: 35L
rated output hydraulic pressure is 16MPa,
pump type: gear pump
- (4) Slot space:25mm
- (5) Panel material: aluminum
- (6) Workbench type: single side two work station for 2 students
- (7) Hydraulic station with hydraulic oil
- (8) Whole equipment dimension:1600mm(L)×750mm(W)×1700mm(H)
- (9) Aluminum panel dimension: 1200(L)×750(W)
- (10) Cabinet: 1

III. Experiment that can be finished



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1. Direction control circuit
 - (1) Hand operated direction valve direction change circuit
 - (2) Solenoid directional valve direction change valve
2. Pressure control circuit
 - (1) Single grade pressure adjust circuit
 - (2) Secondary pressure adjust
 - (3) Single grade pressure decrease circuit
 - (4) Secondary reduce pressure circuit
 - (5) Use "M" direction change valve relief circuit
 - (6) Use selector valve relief circuit
 - (7) Use overflow valve relief circuit
 - (8) Pilot operated check valve protect voltage
3. Speed adjust circuit
 - (1) Oil inlet throttling governing
 - (2) Back oil circuit throttling governing
 - (3) By pass circuit throttling governing
 - (4) Speed adjust valve speed synchronizing circuit
 - (5) Speed adjust valve parallel circuit
 - (6) Speed adjust series circuit
5. Use sequence valve sequent circuit
6. Use stroke switch control sequent circuit
7. Use pressure relay control sequent circuit
8. Use pilot operated check valve single direction lock close circuit
9. Use pilot operated check valve two directional close circuit
10. Use "O" type directional change valve close circuit
11. Relay control hydraulic basic circuit
12. Hydraulic component capacity measure experiment



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IV. Configuration list

No.	Name	Unit	Qty.
1	Training workbench	Unit	1
2	Aluminum base panel	Unit	1
3	Pump hydraulic pump station	Unit	1
4	Electrical hanging shelf	pc	1
3	Double acting hydraulic cylinder	pc	2
4	Throttle valve	pc	2
5	return orifice check valve	pc	2
6	Direct overflow valve	pc	3
7	4/3 solenoid directional change valve(M)	pc	1
8	4/3 solenoid directional change valve(O)	pc	1
9	solenoid directional change valve(Y)	pc	1
10	solenoid directional change valve(H)	pc	1
11	Stroke valve	pc	1
12	4/2 solenoid valve	pc	2
13	4/2 hand operated direction valve	pc	1
14	Speed adjust valve	pc	2
15	Pilot overflow valve	pc	1
16	sequence valve (pilot)	pc	1
17	pilot operated check valve	pc	2
18	Pressure reduce valve(pilot type)	pc	1
19	Single direction valve	pc	1
20	Pressure relay module	pc	1
21	"T" connector	pc	6
22	Five holes connector	pc	4



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23	GLYCERINE PRESSURE GAUGES	pc	3
24	Oil tube, 600mm	ea	6
25	Oil tube, 1000mm	ea	10
26	Oil tube, 1500mm	ea	2
27	Oil blocking module	pc	1
28	DC power module	pc	1
29	Hydraulic station control module	pc	1
30	Relay module	pc	3
31	Button switch module	pc	2
32	Induction sensor	pc	1
33	Capacitive sensor	pc	1
34	Optical sensor	pc	1
35	Micro switch(left)	pc	2
36	Micro switch(right)	pc	2
37	Electrical cables	unit	25
38	PTFE THREAD SEAL TAPE	pc	1
39	Installation tools	pc	1
40	Training guidebook	pc	1
41	English Training Experiment manual	pc	1