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Pneumatic Trainer PLC Control T-slot

PN:0401020020

Pneumatic Trainer PLC Control T-slot

Features

- 1.This Pneumatic Trainer is mainly composed of training bench, training panel, pneumatic components,electrical control devices,and programmable logic controller,etc.The training panel is designed as T-slot for easy operation.
2. The pneumatic components of this Pneumatic Trainer are made according to industrial standard.the pneumatic components has mounting plate and it can be easily and freely placed on the T-slot panel.
3. the cover of pneumatic components are made of transparent plexiglass,the structure and the working process of the pneumatic components are vividly demonstrated.
4. There are two control methods for this Pneumatic Trainer:PLC control and relay control.
- 5.PLC is Mitsubishi FX1S-20MR,12 input ,8 output

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Typical Training Contents

1.Pressure control circuits

- 1.1 Secondary pressure control circuit
- 1.2 High and low pressure shift circuit
- 1.3 Overload protection circuit
- 1.4 Unloading circuit

2.Direction control circuit

- 2.1 Single-acting cylinder reversing circuit
- 2.2 Double-acting cylinder reversing circuit
- 2.3 Single-cylinder reciprocating control circuit
- 2.4 Single-cylinder continuous reciprocating control circuit
- 2.5 Sequence action circuit of straight cylinder,rotating cylinder
- 2.6 Multi-cylinders sequence action circuit
- 2.7Double cylinders synchronous action circuit

3.Speed control circuits

- 3.1 Single-acting cylinder speed regulating circuit
- 3.2 One-way/Unidirectional speed regulated circuit of double-acting cylinder

3.3 Two-way/Bidirectional speed regulated circuit of Double pneumatic acting cylinder

3.4 Speed shift circuit

3.5 Buffer circuit

4. Other circuits

4.1 Relay circuit

4.2 Counting circuit

4.3 Interlock circuit

4.4 Four cylinders linkage circuit

4.5 The application circuit of OR-gate type shuttle valve

4.6 The application circuit of quick exhaust valve

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Main Technical Parameters

No s	Items	Specification	
1	Air compressor	power	250W
		Voltage	220V
		Rated output pressure	1Mpa
		Rated capacity	10L
2	Power supply	AC supply	AC220V 50HZ
		DC supply	input AC220V,output DC24V/3A
3	Dimensions	L*W*H 1510× 580mm × 1720mm	

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Configuration List

Nos	Items	Quantity
Pneumatic Actuators		
1	Triplet	1
2	Double acting single cylinder	1
3	Single acting cylinder	1
4	Rotating cylinder	1
Pneumatic Control Components		
5	Pressure reducing valve	1
6	Manual reversing valve	1

Nos	Items	Quantity
7	Two position five-way single solenoid reversing valve	2
8	Two position five-way double solenoid reversing valve	1
9	Three position five-way double solenoid reversing valve	1
10	Two position five-way single air control reversing valve	2
11	Two position five-way double air control reversing valve	1
12	Travel reversing valve	1
13	Non-return valve	1
14	Shuttle valve(OR-gate valve)	2
15	Quick exhaust valve	2
16	Sequence valve	2
17	One way throttle valve	2
18	One way throttle valve	1
19	One-way valve	2
Monitoring and Control Components		
20	Control button	1
21	Relay	1
22	Limit switch(mounted on the cylinder)	2
23	PLC	1
24	PLC communication cable	1
25	Solenoid cable	3
26	Silent air compressor	1
Software and Documentation		

Nos	Items	Quantity
27	PLC programming software	1
28	Experimental instructions	1
Auxiliary Components		
29	T- type tee	4
30	Y- type tee	1
31	Four-way pipe joint	2
32	Six-way pipe joint	2
33	L-type 601 coupling crank	2
34	L-type 602 coupling crank	2
35	Air lock	4
36	Silencer 1/8	1
37	Silencer 3/8	1
38	Air-capacitor	1
39	Plastic pipe	18m
Tools		
40	Phillips screwdriver	1
41	Screwdriver	1
42	Allen wrench	2
43	Adjustable wrench	1
44	Scissor	1
45	Needle-nose plier	1
46	Tool box	1
Spare Parts and Worn Parts		
47	Teflon tape	1
48	Fuse 3A	2

Nos	Items	Quantity
Bench&Cabinet		
49	Training bench	1
50	Training cabinet	1

*Products and configuration list described herein are subject to changes without notice.