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Pneumatic Training Kit

PN:0401070020

Pneumatic Training Kit

Feature

This pneumatic training kit is a professional pneumatic circuit design and demonstrating of pneumatic experimental platform.It is designed for training and assessment of subjects such as pneumatic drive and pneumatic circuits in colleges and vocational schools with a variety of pneumatic components.This pneumatic training kit can meet the teaching and training of the pneumatic disciplines.

- 1.The composition of pneumatic transmission system.
- 2.The basic pneumatic circuit experiments

Pneumatic Training Kit

Preference

- 1.All pneumatic components use rapid joint which can inserted for easy operation.
- 2.All pneumatic components and valves are used industrial grade physical components and valves.
- 3.The quick couplings are used for pneumatic circuits connection and the electrical control circuit use training connecting wires with protective function.The students can build circuits under the guidance of instruction books or design their own system circuits.The pneumatic components in this training kit is complete for designing more complex applications circuits.
- 4.Adopt quiet mini air compressor with low noise (<57db), oil-free, odorless gas,clean and dry.
- 5.With 1P + N leakage protection,output voltage is 220V, when the earth leakage current exceeds 30mA,the power supply will cut off;the electric control is DC 24V,with over-voltage protection to prevent damage in malfunction.
- 6.Smart,portable and intelligent training kit for classroom demonstrating and teaching.

Pneumatic Training Kit

Typical Training Contents

Part A Recognition of pneumatic system

- 1,Recognition of pneumatic components
- 2,Recognition of electrical components

Part B Basic Pneumatic Circuit Training

- 1,Pressure control circuits
 - 1.1,Pressure reducing circuit
 - 1.2,Pressure relief circuit(Pressure-venting circuit)
- 2,Speed control circuit
 - 2,Speed shift circuit
 - 2.1,Bidirectional throttle speed regulating circuit
 - 2.2,Throttle speed regulating circuit
 - 2.3,Sequence action circuit by proximity switch
 - 2.4,Sequence action circuit of twin/double cylinder by magnetic switch
- 3,Directional control circuit
 - 3.1,Reversing circuit by reversing valve
 - 3.2,Single-cylinder reciprocating control circuit

Part C Integrated control circuit

Flow control

Direction control

Pressure control

The application control of the electrical component

Pneumatic Training Kit

The Main Technical Parameters

No s	Items	Specification	
1	Air Compressor	Capacity	≥22L
		Power	220V,≥0.7kW
		Output pressure	1MPa
		Rated flow	≥114L / min
2	Maximum working pressure	1MPa	
3	Dimensions	L*W*H 610mm×265mm×683mm	

Pneumatic Training Kit

Configuration List

No	Name	Specification	Qty
1	Double acting cylinder	Stroke 50mm, with magnetic ring	2 Pcs
2	Pressure reducing valve	With decompression and filtering function	1 Pcs
3	Two position five-way manual valve		1 Pcs
4	Three-way pneumatic control valve	Normally closed	1 Pcs
5	Three-way pneumatic control valve	Normally open	1 Pcs
6	Three-way pneumatic control valve	double	1 Pcs
7	Five-way pneumatic control valve	Single	1 Pcs
8	Five-way pneumatic control valve	Double	1 Pcs
9	Five-way solenoid valve	Single	1 Pcs
10	Five-way solenoid valve	Double	1 Pcs
11	Three-way solenoid valve	Normally open	1 Pcs
12	Three-way solenoid valve	Normally closed	1 Pcs
13	Three-way solenoid valve	Double	1 Pcs
14	One-way throttle valve		2 Pcs
15	Hand rotary valve		2 Pcs
16	Roller type mechanical valve		2 Pcs

No	Name	Specification	Qty
17	Self-reset button		2 Pcs
18	Self-locking illuminated pushbutton		2 Pcs
19	DC relay		4 Pcs
20	Two knobs		2 Pcs
21	Proximity Switch		2Pcs
22	Muffler		1 Set
23	Quick action couplings		1 Set
24	Aviation connector		1 Set
25	Air tube	$\Phi 4$	8m
26	Reducing straight coupling	$\Phi 6-\Phi 4$	1 Pcs
27	Phillips screwdriver		1 Pcs
28	Adjustable wrench		1 Pcs
29	Air compressor		1 Pcs
30	Training kit		1 Pcs
31	Training bench		1 Pcs
32	Experimental instructions		1 Pcs

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