

## **Changsha Fanli Edusupports Co.,Limited**

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### **Hydraulic Training Kit,Transparent Hydraulic Circuit,Low Pressure,Portable Hydraulic Trainer**

**PN:0401070010**

#### **Hydraulic Training Kit, Transparent Hydraulic Circuit, Low Pressure, Portable Hydraulic Trainer**

##### **Features**

1. The hydraulic components and pump are made by transparent plexiglass based on physical components and their internal structure is crystal clear.The valve spool is made according to industrial process and standard and with a high accuracy of the whole assembly.The pipeline is made of imported transparent pressure pipe with fast closed joint,easy operation and excellent sealing performance,convenient operation and excellent sealing performance.The working principle of hydraulic transmission system is absolutely clear,and it is,especially,suitable for the students to do the experiments of performance,principle and structure of hydraulic transmission system.
2. Good sealing performance,There is no leakage of hydraulic components when the system is working under the conditions of a pressure not more than 0.8 MPa.
3. The hydraulic cylinder length is greater than 200mm
4. All hydraulic components are made at high-precision according to standard physical structure,the gap between valve body and valve spool is

0.015-0.028mm and accuracy is  $\pm 0.2$  mm.

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[Typical Training Contents](#)

**Part A Recognition of hydraulic system**

1. The composition of hydraulic transmission system demo.
2. The structure and working principle of various parts of a hydraulic transmission system observing, disassembly and assembly training.

**Part B The typical hydraulic circuit experiments**

1. Pressure relief circuit by reversing valve
2. Automatic control reversing circuit
3. Volume throttling speed control circuit
4. Throttle speed regulating circuit by speed regulating valve
5. Pressure reducing circuit
6. Pressure regulating circuit by pressure relief valve/overflow valve
7. Manual control reversing circuit

**Part C Pump characteristic test**

1. Pressure - flow rate test method
2. Pressure - overall efficiency test method
3. Pressure - volume efficiency test method

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[The Main Technical Parameters](#)

Nos	Items	Specification	
1	Quantitative gear pump	Rated pressure	2.5MPa
		Rated flow	$\geq 4$ L / min
2	AC variable speed motor	Rated voltage	AC220V
		Rated power	$\geq 200$ W
		Rated speed	1400r/min
		Size	580mm $\times$ 270mm $\times$ 685mm
3	Pump	Size	380mm $\times$ 240mm $\times$ 340mm
4	Training kit	Dimension	400mm $\times$ 285mm $\times$ 160mm

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[Configuration List](#)

No	Name	Specification	Qty
1	Single-phase motor		1 Pcs
2	Quantitative gear pump		1 Pcs
3	Double-acting hydraulic cylinder		1 Pcs
4	Three position and four-way solenoid directional valve/reversing valve		1 Pcs
5	Direct-acting pressure relief valve/overflow valve		1 Pcs
6	Throttle valve		1 Pcs
7	Two position and four-way solenoid directional/reversing valve		1 Pcs
8	Pilot oriented pressure reducing valve		1 Pcs
9	Tee		1 Pcs
10	Four-way pipe joint		1 Pcs
11	Joint		1 Pcs
12	Shockproof pressure gauge		2 Pcs
13	Oil pump		1 Pcs
14	Hydraulic oil		None
15	Proximity Switch		2 Pcs
16	Push button		1 Pcs
17	Phillips screwdriver		1 Pcs
18	Adjustable wrench		1 Pcs
19	Socket		1 Pcs
20	Aviation connector		3 Pcs
21	Experimental instructions		1 Pcs
22	Training kit		1 Pcs
23	Training bench		1 Pcs

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