



This double-sided Basic Hydraulics Trainer is a comprehensive teaching platform designed to provide hands-on experience with core hydraulic components and circuits. Equipped with a hydraulic pump and a modular circuit board, it is ideal for technical education, vocational training, and industrial skills development.

Key Features

- Double-sided design supports **simultaneous operation** by multiple users or groups.
- Includes **circuit board** for schematic layout and instructional clarity.
- Comes with **full hydraulic accessories** for circuit customization and experimentation.
- Enables training in **flow control, pressure regulation, and actuator manipulation**.

Included Hydraulic Components

Component	Description
Double-Acting Cylinder	Provides bidirectional linear motion under hydraulic pressure
4/3 Way Hand Directional Valve	Manually operated, closed-center valve for flow direction control
Pressure Compensated Flow Control Valve	Maintains constant flow regardless of pressure variations
One-Way Flow Control Valve	Allows free flow in one direction and controlled flow in reverse
Direct Pressure Reducing Valve	Reduces and stabilizes downstream pressure

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Order Code – 25268466.2.14
Basic Hydraulics Trainer (Double Sided)
with pump and circuit board

Component	Description
Direct Pressure Relief Valve	Protects the circuit from overpressure by releasing excess fluid
Hydraulic Distributor	Directs fluid to various circuit paths
Pressure Gauge with Distributor	Monitors system pressure with integrated distributor ports
Isolator Valve	Used to isolate parts of the hydraulic circuit for maintenance or testing
Pressure Gauge with Measuring Hose	Enables remote pressure monitoring via flexible hose
Hose Line (630mm)	Standard hydraulic hose for circuit interconnection
Hose Line (1000mm)	Extended-length hose for flexible setup
Hose Line with 90° Fitting (630mm)	For compact or angled connections
Hose Line with Measuring Port (1000mm)	Facilitates pressure measurement within the circuit

Educational Applications

- Assembly and troubleshooting of hydraulic circuits
- Pressure and flow rate analysis
- Study of actuator control and feedback
- Component identification and function
- Introduction to ISO hydraulic symbols and schematic design

Additional Details

- **Structure:** Double-sided aluminum frame with modular panel board
- **Power Source:** Integrated hydraulic pump
- **Safety:** Pressure relief components and isolator valves included
- **Connectivity:** Color-coded hoses and quick-connect fittings
- **Circuit board:** Labelled with standard hydraulic symbols for training clarity

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