

Order Code - 25268883.1



The Pneumatic Training Panel is a comprehensive educational system designed to provide students and trainees with hands-on experience in the study of pneumatic circuits and components. It incorporates a wide range of industrial-grade valves, cylinders, hoses, and measuring instruments, arranged on a robust training frame. This trainer enables learners to understand the practical applications of pneumatic power in automation and control systems. With single-acting and hand-lever-operated cylinders, multiple types of directional control valves, pressure relief valves, and flow measurement accessories, the panel simulates real-life industrial pneumatic systems. Learners can assemble, test, and troubleshoot different pneumatic circuits, gaining knowledge in pressure regulation, flow control, and actuator operation. The system also integrates pressure gauges and hoses of varying lengths for flexible circuit design, while the flow meter provides precise measurement of airflow. Designed for durability and ease of use, this panel is suitable for polytechnics, engineering colleges, vocational institutions, and industrial training centers. It helps bridge the gap between theory and practice, ensuring learners gain practical skills required in industries such as manufacturing, process automation, robotics, and machine tool operations.

Experiments

- Study of single-acting and hand lever-operated cylinders
- Operation of 3/2, 4/2, 4/3 directional control valves
- Pressure relief valve operation
- Flow measurement using T-connector and flow meter
- Circuit assembly with hoses and connectors
- Study of counterbalance and pilot check valves

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

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Features

- Real industrial-grade components
- Modular setup for multiple circuit combinations
- Pressure and flow measurement facility
- Rugged training frame

Specifications

- DOK Single Acting Cylinder, Weight 3/2 Way Hand Lever Type 4/2, 4/3 PABT Blocked.
- Hand Lever Type Valve (PT Biased)-3XX.
- Directly Operated Pressure Relieve Valve IXX.
- Pilot Actuated Relief Valve, Counter Balance Type Valve.
- Check Valve, Pilot Type Check Valve 5Bar-3XX.
- Pressure Gauge Hoses 1500mm-6XX.
- Hoses 1000mm-4XX, Hoses 600mm-1XX.
- Hydraulic Motor Pressure Remover-7XX.
- T-Connector Flow Meter Weight 5Kg.

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