



The basic Customized Electro-Pneumatic Trainer outlines the principal of Pneumatic control used in industrial applications. It explains components of pneumatic control system and their applications.

Features

- Compact Ergonomic Design.
- User Friendly, Self Explanatory Systems.
- Leak proof Safety Measures, sturdy piping & Robust Construction.
- Enhanced Electrical Safety Considerations.
- Training Manuals mimic Charts for Operation Ease.
- M.S. powder coated cubical plant with standard Instrument Assemblies.
- Inbuilt Safety Measures to avoid improper usage.
- Relay board logic circuit operation.

Experimetns

- Study of pneumatic actuator & reciprocating cylinder trainer kit with different Logical
- Circuits such as OR, AND etc. operations.
- Study of pneumatic cylinders: single acting, double acting.
- Study of construction & operation of pneumatic equipments such as 5/2 Solenoid valve,
- 3/2-way valve, limits switches, pneumatic motor etc.
- Study of pneumatic control systems.

System Specifications

- Double acting cylinder, 3/2 solenoid valve, single acting cylinder with flow restrictors,
- Double Pilot operating 5/2 valve, Single solenoid operating
- 5/2 valve, 5/2 Hand Lever Valve, Pneumatic limit switch (plunger & roller operated),
- Push-button 3/2 valves (monostable), 3/2 Roller Lever Valve, Pneumatic indicators,
- Air supply manifold, Pneumatic motor, AFR Unit, Profile Plate, Flow Control Valve,
- Quick Exhaust Valve, T-Connectors, Shuttle Valve (OR Gate), Dual Pressure Valve
- (AND Gate), Hand Slide Valve, Time Delay Valve, Quick Connectors, Mounting Plates.

Services Required

- Compressed clean, dry air supply at 7-8 Kg/cm².
- 230 VAC single phase motor.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tescaglobal.com

Technical Specification

Aluminum Profile plate	Anodized aluminum profile plate, Grid dimensions 50mm Size 1100x700 mm approx
Single Acting Cylinder	Bore: 25 mm ` Stroke: 100mm, Mounting: Foot.
Double Acting Cylinder	Bore: 25 mm ` Stroke: - 100mm, Mounting: Foot
Air Filter Regulator	¼", 0-10 Kg/cm2
Solenoid Valve	3 Nos, 5/2 way single sided and double sided, 1/4", 24 V DC & 3/2 way, ¼", 24 V DC.
Flow Control Valve	2Nos, ¼" (F), Square Body.
Pilot operated valve	2Nos., ¼", 5/2 Single sided and 5/2 double sided.
Roller lever valve	3/2 normally closed type, ¼".
Plunger Operated valve	2, 5/2 way and 3/2 way, ¼".
Non Return Valve	¼" connection
Pressure switch	1-6 kg/cm2 pressure, 3 normally closed contacts.
Block Manifold	¼", 4 ways.
Shuttle valve	¼" connection
dual pressure valve	¼" connection
Plastic Silencer	¼" connection
Male Connector	¼" connection
Indicating Lamp	24 VDC Operated.
Proximity Sensors	Type: Inductive 3 wire, Diameter: 18 mm, Sensing Distance: 5 mm.
Electrical Limit switch	2, Right actuated and left actuated.
Electrical control panel	MS Powder coated panel with switches, indicator, Circuit points on front facia, UK 2.5 Terminal Connectors mounted on DIN rail channel, Use of 1sq mm multistrand wire with proper insulated Lugs, Ferruling & neat wire dressing & clamping Wires & power cables are seated through 1"×1"
Dimensio	1ft (L) ×1ft (W) ×1ft (H)
Pressure Gauge	0-7 Kg/cm2, connection ½" BSP, Dial Size: 100 mm.
Pneumatic Motor	Uni- Directional, Free Speed: 22,000 RPM, Air pressure: 0-90 psi,
Air Compressor (Optional)	Tank capacity: 25 Litres, Discharge: 2 CFM Motor: 2 H.P. 230 V AC Operated, Working pressure: 5-6 kg/cm2
Relay Module (4 no.)	24V DC supply, 2 NO/NC contacts, panel mounting type.

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