

Pneumatic Trainer explores students & industry professionals to the basic principles of pneumatics and compressed air devices. It tells, how components manage, command, direct or regulates pneumatically. All types of pneumatic controls are explained in the trainer.

Pneumatic Trainer has pneumatic components which can be used for study of Basics of Pneumatics. There is a wide range of experiments which can be performed on the trainer.

- A complete set up with Air Compressor
- Mounting panel for Pneumatic components
- Different pneumatic arrangements; includes Control Diagrams
- Sequential & Linear Pneumatic Control
- Understanding of Industrial Pneumatic Components
- Pneumatic Safety Awareness
- Exhaustive course material & references

### Technical Specifications

#### Air Compressor

Pressure Range	: 0 to 150 psi and 0 to 10 Kg/cm
Supply	: 230 V AC
Motor Type	: Single Phase
Motor Power	: 0.5 HP
RPM	: 1440
Tank capacity	: 5 Liters

#### Components

Single Acting Cylinder	: Stroke length of 54 mm 2 Operating Pressure range (0.5 - 8 Kg/cm) Diameter - 32 mm Port size - 1/8 inch
Double Acting Cylinder	: Stroke length of 100 mm 2 Operating Pressure range (0.5 - 8 Kg/cm) Diameter - 32 mm Port size - 1/4 inch FRL Unit : Operating Pressure 115 psi, Filter size 25 micron
2 Solenoid Valves	: 3/2 type, Operating Pressure range (1.5 - 8 Kg/cm), Operating voltage +24VDC
2 Pressure Gauge	: Reads (0 - 150 psi and 0 - 10 Kg/cm)
Manifold	: 8 ports

Mounting Panel Dimension : 500 W x 660 D x 15

#### Scope of Learning

- Study of the operation of a Single Acting cylinder.
- Study of the operation of a Double Acting cylinder.
- Observation of the piston movement of a Single Acting cylinder manually by using Push button.
- To study manual control of piston movement of double acting cylinder.
- To study of Pilot control of a Single Acting cylinder piston movement.
- To study of Pilot control of a Double Acting Cylinder piston movement.
- To study manual sequencing control (A+A-) of double acting cylinder.
- To study manual sequencing control (+A+B-A-B) of double acting cylinder.



Double Acting Cylinder



FRL

3/2-Solenoid



5/2-Hand Lever Valve

- To study manual sequencing control (+A-B+A-B) of double acting cylinder.
- To study manual sequencing control (-A+B+A-B) of double acting cylinder.
- To study manual sequencing control (-A-B+A+B) of double acting cylinder.
- To study combined sequencing of a Single acting cylinder and a Double acting cylinder by using 3/2 solenoid valve.
- To control the combined sequencing of a Single acting cylinder and a Double acting cylinder by using 3/2 & 5/2 Hand Lever valve.

Note: Specifications are subject to change.

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