



Pneumatic Training Platform

Nvis 3020



Nvis 3020 Pneumatic Training Platform explores students & industry professionals to the 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 Platform.

Nvis 3020 Pneumatic Training Platform has pneumatic components which can be used for the study of Pneumatics. There is a wide range of experiments which can be performed on the Platform.

Features

- Function and identification of Pneumatic components and their symbols
- Practice troubleshooting skills
- Compact tabletop ergonomic design
- Ready experimental details
- Robust construction
- 3/2 Solenoid Valve, 3/2 Push button (Palm Actuator), 5/2 Hand lever Valve, Flow Control Valve, Pressure Gauge , Filter Regulator Lubricator (FRL), Manifold, Double Acting Cylinder (DAC), Single Acting Cylinder (SAC)
- Mounting panel for Pneumatic Components
- Sequential & Linear Pneumatic Control
- Understanding of Industrial Pneumatic Components
- Exhaustive course material & references
- 'One Touch Push in Fittings' for easy fitting of PU tubes - which are provided for fast & leak-proof connections



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Scope of Learning

Study and use of:

- Operation of a Single Acting cylinder
- Operation of a Double Acting cylinder
- Piston movement of a Single Acting cylinder manually by using Push button
- Manual control of piston movement of double acting cylinder
- Pilot control of a Single Acting cylinder piston movement
- Pilot control of a Double Acting cylinder piston movement
- Manual sequencing control (A+A-) of double acting cylinder
- Manual sequencing control (+A+B-A-B) of double acting cylinder
- Manual sequencing control (+A-B+A-B) of double acting cylinder
- Manual sequencing control (-A+B+A-B) of double acting cylinder
- Manual sequencing control (-A-B+A+B) of double acting cylinder
- Combined sequencing of a Single acting cylinder and a Double acting cylinder by using 3/2 solenoid valve
- Combined sequencing of a Single acting cylinder and a Double acting cylinder by using 3/2 & 5/2 Hand Lever valve

Technical Specifications

Double acting cylinder

Quantity	: 2 nos.
Stroke length	: 100 mm
Operating Pressure range	: 0.5-8 kg/cm ²
Diameter	: 32 mm
Port size	: 1/8 inch
Single Acting Cylinder	
Quantity	: 1 no.
Stroke length	: 75 mm
Operating Pressure range	: 0.5-8kg/cm ²
Diameter	: 32 mm
Port size	: 1/8 inch

3/2 Solenoid Valve

Quantity	: 1 no.
Type	: 3/2 (2 position 3 port)
Pressure range	: 1.5–8 Kg /cm ²
Operating Voltage	: +24V DC

Hand lever Valve

Quantity	: 2 nos.
Type	: 5/2 (2 position, 5 port)
Pressure range	: 1.5–8 Kg /cm ²

Manifold

Quantity	: 1 no.
Ports	: 6

Flow Control Valve

Quantity	: 2 nos.
Operating Pressure range	: 1.5-8kg/cm ²

Pressure Gauge

Quantity	: 1 no.
Pressure range	: Reads (0-150 psi and 0-10kg/cm ²)

Push Button, or Palm Actuator

Type	: 3/2 (2 Position/3 Port)
Operating Pressure range	: 1.5 - 8kg /cm ²

FRL Unit

Quantity	: 1 no.
Operating Pressure	: 115 psi
Filter size	: 25 micron

Air Compressor (Optional)

Quantity	: 1 no.
Voltage	: 220V AC
Pressure	: 115 Psi
Speed	: 2850 RPM
Tank	: 30 Liter
Displacement	: 110L/Min.
Power	: 1.5HP

List of Accessories

PU Tube	: 5mtr.
Tube Cutter	: 1 no.
+24 V DC Power Supply	: 1 no.
Mains Cord	: 2 nos.
Patch Cord 16"	: 4 nos.

