

# BASIC PNEUMATIC TRAINING SET (EP201)

## Description

The Basic Pneumatics Training Set is an educational tool designed to provide hands-on experience and basic knowledge of pneumatic systems, which involves the use of compressed air to move machines and tools that include various major pneumatic components such as Compressors, Actuators, Valves, Regulators, and Filters. The Basic Pneumatics Training Set can enhance the learning experience by allowing users to engage directly with the principles and components of pneumatic systems.

## Able to learn : -

- Physical principles of pneumatic control
- Distribution of air compressor & application
- Design of pneumatic control system
- Design pneumatic schematic, logic and symbol
- Adjust pressure regulation and measurement
- Meter in and meter out speed control
- Direct and in-direct pneumatic actuation
- Function of quick exhaust application
- Pneumatic sequence control
- Position control with limit switch valve
- Position control with time delay valve
- Basic circuits of single and double acting cylinder
- Faults findings in pneumatic control system



## Required Item

- Pneumatic basic working table (single side)
- Magnetic symbol (Pneumatic)
- Pneumatic Operation Manual (basic)
- Pneumatic Experiment Manual (basic)
- Basic pneumatic training set
- Air Compressor

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## Technical Specification : -

No	Component	Qty	No	Component	Qty
1	Air Service unit	1	14	3/2-way selector switch valve	1
2	8 way Air distributor	1	15	3/2-way single pilot spring-return valve (Normally closed)	1
3	Single-acting cylinder - spring return	1	16	5/2-way single pilot spring-return valve	1
4	Double-acting cylinder - magnetic	2	17	5/2-way double pilot air-return valve	2
5	Vacuum generator & suction cup	1	18	3/2-way lever limit switch valve	4
6	Pressure regulating valve 0-10kgf	1	19	5/2-way lever limit switch valve	1
7	One-way flow control valve	4	20	AND valve	2
8	Quick exhaust valve	1	21	OR valve	2
9	Pressure gauge	2	22	Air fitting	1
10	Time-delay valve (Normally closed)	1	23	T-connector	5
11	3/2-way push-button valve (Normally closed)	2	24	Plastic hose (1M)	20
12	3/2-way push-button valve (Normally open)	1	25	Hose cutter	1
13	5/2-way selector switch valve	1	26	Air compressor	1