

SAP E & C BASIC / ADVANCED PNEUMATIC TRAINER
(PRODUCT CODE: SAP – 19 / 19A)



BASIC PNEUMATIC TRAINER



ADVANCED PNEUMATIC TRAINER

The **Basic / Advanced Pneumatic Trainer (SAP – 19 / 19A)** outlines the principles of Pneumatic control used in Industrial applications. It explains components of Pneumatic control system & their operation.

Technical Specification: -

No.	Item Name	Technical Specifications
1	Pressure Gauge-	0-7 Kg/cm ² , connection 3/8" BSP, Dial Size: 100 mm.
2	Pneumatic Motor-	Unidirectional, Free Speed: 22,000 RPM, Air pressure: 0-90 psi.
3	Single Acting Cylinder-	Bore: 25 mm × Stroke: 100mm, Mounting: Foot.
4	Double Acting Cylinder-	Bore: 25 mm × Stroke: - 100mm, Mounting: Foot.
5	A.F.R. / F.R.L. Unit-	¼", 0-10 Kg/cm ² with Pressure Gauge.
6	Hand Lever Operated Valves-	2 No.s, 5/2 way & 3/2 way, 5/3 way (SAP 19A) 1/4" Connection.
7	Shuttle Valve-	OR Valve, ¼" connection.
8	AND Valve-	Dual Pressure Valve, 1/4" connection.
9	Flow Control Valve-	¼" (F), Square Body.
10	Non Return Valve-	¼" connection.
11	Block Manifold-	¼", 6 ways.
12	Motor-	2 H.P. 230 V AC, 1ϕ Operated, Working pressure: 5-6 kg/cm ²
13	Plastic Tubing-	PUN 4×0.75, Exterior Diameter-6mm, Interior Dia.- 4mm, Transparent – 10mtrs, Blue- 10mtrs.
14	Push Button Valve (SAP 19A)-	5/2 way Valve, ¼" Connection.

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15	Quick Push-Pull connectors-	Sufficient shall be supplied for branching of the tubing for making of the circuitry.
16	Roller Lever Valve (SAP 19A)-	5/2 way, 3/2 way Valve, 1/4" Connection.
17	Rotary Disc Valve (SAP 19A)-	4/3 way Valve, 1/4" Connection.
18	Rotameter (SAP 19A)-	1/4" connection.
19	Pilot Operated Valve (SAP 19A)-	5/3 Spring Centered, 5/2 Spring Returned, 3/2 Pilot Operated.
20	Palm Operated Valve (SAP 19A)-	3/2 way Valve, 1/4" Connection.
21	Foot Operated Valve (SAP 19A)-	5/2 way Valve, 1/4" Connection.
22	Solenoid Valve (Optional)-	2 No.s, 5/2 way & 3/2 way, 1/4" Solenoid Operated.
23	Air Compressor (Optional)-	Tank capacity: 25 Liters, Discharge: 2 CFM.

Range of experiments:

- ❖ Study of Pneumatic Cylinders: Single Acting, Double Acting.
- ❖ Study of Different Pneumatic circuits such as AND – OR-Logical circuits etc.
- ❖ Study of pneumatic control system
- ❖ Study of construction & operation of pneumatic equipments such as 5/2 Way valve, 3/2 Way valve, pneumatic motor, etc.

Features: -

- ❖ Compact Ergonomic Design.
- ❖ User Friendly, Self Explanatory Systems.
- ❖ Robust Construction.
- ❖ Training Manual, mimic Charts for Operation Ease.
- ❖ System Frame with Caster Wheel Arrangement for ease in movement.
- ❖ M.S. powder coated cubical plant with standard Instrument Mountings.
- ❖ Inbuilt Safety Measures to avoid improper usage.
- ❖ PU Tubes and Quick Push-Pull connectors for making connections quick and easily.
- ❖ Compressor (optional).

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System Dimension- 2.5 Ft. X 2 Ft. (W) X 2.5 Ft. (H)

Services Required:

- ❖ Electric supply 1 ϕ 230 V AC, 50 Hz.
- ❖ Clean, dry, Compressed air supply at 4-5 Kg/cm².

Note:

All descriptive matter and illustrations are intended to give only a general idea of the equipment Detailed specifications may be altered at the company's discretion without any notice.

Manufactured/Marketed By

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