

**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 <sup>2</sup> , connection 3/8" BSP, Dial Size: 100 mm.
2	Pneumatic Motor-	Unidirectional,, 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 <sup>2</sup> 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	Plastic Tubing-	PUN 4×0.75, Exterior Diameter-6mm, Interior Dia.- 4mm, Transparent – 10mtrs/Blue-10mtrs.
13	Push Button Valve (SAP 19A)-	5/2 way Valve / 3/2 way Valve, ¼" Connection.
14	Quick Push-Pull connectors-	Sufficient shall be supplied for branching of the tubing for making

		of thecircuitry.
15	<b>Roller Lever Valve (SAP 19A)-</b>	5/2 way, 3/2 way Valve, ¼” Connection.
16	<b>Rotary Disc Valve (SAP 19A)-</b>	4/3 way Valve, ¼” Connection.
17	<b>Rotameter (SAP 19A)-</b>	¼” connection.
18	<b>Pilot Operated Valve (SAP 19A)-</b>	5/3Spring Centered, 5/2Spring Returned, 3/2 Pilot Operated.
19	<b>Palm Operated Valve (SAP 19A)-</b>	3/2 way Valve, ¼” Connection.
20	<b>Foot Operated Valve (SAP 19A)-</b>	5/2 way Valve, ¼” Connection.
21	<b>Solenoid Valve (Optional)-</b>	2 No.s, 5/2 way& 3/2 way, 1/4” Solenoid Operated.
22	<b>Air Compressor(Optional)-</b>	Tank capacity: 25 Liters, Discharge: 2 CFM,1 H.P.

**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.
- ❖ ISO Symbol for each mounted components
- ❖ 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.
- ❖ Caster wheel mounted movable frame

**Services Required:**

- ❖ Electric supply 1 $\phi$  230 V AC, 50 Hz.
- ❖ Clean, dry, Compressed air supply at 4-5 Kg/cm<sup>2</sup>.

**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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