Air Distribution Manifolds
For Main Air Panel Applications

Basic Size 12 - Inlet Port 3/4”
Basic Size 20 - Inlet Port 1¼”

Air Distribution manifolds provide individual control on machinery with multiple pneumatic circuits. Mechanical presses may have clutch/brake, counterbalance, die cushion, mechanical devices and automation valves circuits. Air distribution manifolds allow centralized independent pressure control as well as independent lockout points for each circuit.

Manifolds are available in 2-station and 3-station blocks and can be stacked together to meet the most demanding applications. Two standard sizes are available Basic Size 12 and Basic Size 20, with ports 3/4” and 1-1/4” respectively. Several individual functions can be customer specified, including check valves and/or lockout valves, to meet your requirements. Maintenance and service are simplified using top-loaded regulators, cartridge checks and base-mounted lockout valves. Additional auxiliary ports are available on each station for unregulated main air (air tools) as well as unregulated or regulated 1/4” pilot lines or test ports.

Contact ROSS Controls for further information and product testing opportunities.

Features:
- Both Basic Sizes can be stacked together to fit any application - assembly hardware included
- More efficient use of space
- Reduced engineering cost
- Fast and easy installation
- Reduced procurement
- Standardization and improved appearance

Basic Size 12 (3/4” inlet X 3/4” outlet)
- Supply headers equipped with 3/4” auxiliary outlet port
- All inlet and outlet ports are 3/4” size
- Additional 1/4” port on outlet
- Common exhaust port on circuit branches and headers

Basic Size 20 (1¼” inlet X 1” outlet)
- Supply header equipped with 1” auxiliary outlet port
- All inlet and exhaust ports are 1¼” size, outlets are 1” size
- Additional 1/4” port on outlet
- Common exhaust port on circuit branches and headers

Standard Specifications

Ambient Temperature: 40° to 120°F (4° to 50°C).
Media Temperature: 40° to 175°F (4° to 80°C).
Flow Media: Filtered air; 5 micron recommended.
Inlet Pressure: 0 to 150 psig (0 to 10.3 bar).
Air Distribution Manifolds For Main Air Panel Applications

**LIQUID FILLED GAUGES**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>NPT BSPP</th>
</tr>
</thead>
<tbody>
<tr>
<td>5400A2014</td>
<td>D5400A2014</td>
</tr>
</tbody>
</table>

- Liquid filled
- Case: Stainless steel, 2 1/2" diameter
- Scale: Dual (Lb/in² – bar – x100 kpa)
- Dial range: 0 to 160 psig
- Bourdon tube type: ANSI grade B
- Connection: Brass 1/4" NPT center back mount
- Surge protector: Standard

**GAUGE SHUT-OFF**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>NPT BSPP</th>
</tr>
</thead>
<tbody>
<tr>
<td>112H74</td>
<td>D321H74</td>
</tr>
</tbody>
</table>

- Allows gauge installation without system shutdown
- Male-female ported for compact installation
- Nickel plated brass construction
- Rated to 250 psi (13.8 bar)

**SILENCERS**

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Thread Type</th>
<th>Valve Model Number</th>
<th>Avg. CV</th>
<th>Dimensions inches (mm)</th>
<th>Weight lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4</td>
<td>NPT - Male</td>
<td>5500A5003</td>
<td>11.5</td>
<td>2.0 (51) 5.5 (140)</td>
<td>0.6 (0.3)</td>
</tr>
<tr>
<td>G 3/4</td>
<td>BSPT - Male</td>
<td>D5500A7503</td>
<td>11.5</td>
<td>2.0 (51) 5.5 (140)</td>
<td>0.6 (0.3)</td>
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<tr>
<td>1¼</td>
<td>NPT - Male</td>
<td>5500A7013</td>
<td>16.4</td>
<td>2.0 (51) 5.5 (140)</td>
<td>0.6 (0.3)</td>
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<tr>
<td>G 1¼</td>
<td>BSPT - Male</td>
<td>D5500A7013</td>
<td>16.4</td>
<td>2.0 (51) 5.5 (140)</td>
<td>0.6 (0.3)</td>
</tr>
</tbody>
</table>

Pressure Range: 0 to 150 psig (0 to 10.3 bar) maximum. **Flow Media:** Filtered air.

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**ACCESSORIES**

- Minimum 2-station manifold, 3-station manifold available.
- * All stations include regulator pressure gauge.
- # Stations with lockout valve include additional downstream pressure gauge.

**NOTE:**
- If a 4-station manifold is required combine two 2-station manifolds.
- If a 5-station manifold is required combine one 2-station, and one 3-station manifold.

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