M-5000 Series Modular Manifold

FEATURES
- Modular Dovetail Design
- Miniature Size
- Low Cost

The Modular Manifold is designed for instrumentation and industrial applications.

The Unique Modular Dovetail design allows the manifold block to be used as an individual unit or assembled into a modular combination of pneumatic components.

The Modular Manifold is available in two models: the standard model and the filtered model. The standard model is unfiltered.

The filtered model contains four stainless steel filters in the side ports. Micron size is 380. The top cover is unfiltered.

The Manifold Block contains four individual dovetail slides and one top cover that will accept a various assortment of threaded ports or blanks.

Port Connections Available
- Threaded Port and Top Cover
- Blank Slide and Blank Top Cover
- Connector
- Union
- Gauge Port
- Push-in Fitting

The Modular Dovetail Wall Mount Bracket is available for wall or cabinet mounting.

The Pneumatic Accessories include the modular manifold block, the modular precision pressure and preset regulators, pressure or vacuum switches, and pressure or vacuum gauges.

By combining the pneumatic accessories together pneumatic circuits and systems can be assembled into one Modular Manifold System.

Unique Modular Dovetail Design

SPECIFICATIONS
- Maximum Supply: 150 PSI
- Operating Temperature: 40° to 150° F (4° to 66°C)
- Recommended Filtration: 5 Micron
- Capacity: 1 Cubic Inch

MATERIALS
- Housing: Glass filled Celcon
- O-Rings: Buna N, Silicone Nitrile
- Filter: Stainless Steel 316L, Micron size 380

PORT CONNECTIONS
- Threaded Dovetail: A Modular Dovetail Slide with 1/8-32 UNF, 1/4-28 NPT, 1/4-18 NPT thread sizes. The 1/8” and 1/4” gauge port is available.
- Union Dovetail: A Modular Dovetail Slide with a thru hole joining two units together with a common air supply.
- Connecting Dovetail: A Modular Connecting Dovetail Slide with no hole joining two units together with no common air supply.
- Blank Dovetail: A Blank Dovetail Slide is supplied when the port is not in use.
- Gauge Dovetail: A Modular Dovetail Slide with 1/8-27 NPT or 1/4-18 NPT thread sizes. The Dovetail Slide has the word “gauge” molded into the slide.
- Top Cover: The Top Cover is available in various combinations, 10-32 UNF, 1/8-27 NPT or 1/4-18 NPT thread sizes. The 1/4” and 1/8” contain a brass hoop insert. During assembly, fittings should be finger tight plus one turn.

MOUNTING
- Base Mounting: 115 diameter mounting holes - use 4-40 mounting screws
- Wall Mount: Modular Dovetail wall mount

Patent Number 5,217,260
**Manifold Selection Guide**

**ORDERING INFORMATION**  
Order by model number. Specify accessory letters or numbers for the dovetail ports and top cover port.  
When choosing the port selection Port #1 is the starting point. The remaining ports are then selected counterclockwise.

### Part Number Guide

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Port 1</th>
<th>Port 2</th>
<th>Port 3</th>
<th>Port 4</th>
<th>Top Cover Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5000</td>
<td>0 – 10-32 UNF Threads</td>
<td>1 – 1/8-27 NPT Threads</td>
<td>2 – 1/4-18 NPT Threads</td>
<td>3 – Push-in Fitting for 5/32&quot; O.D. tube</td>
<td>0 – 10-32 UNF Threads</td>
</tr>
<tr>
<td></td>
<td>8 – Push-in Fitting for 6mm O.D. tube</td>
<td>B – Blank Dovetail</td>
<td>D – 0-30 PSI Gauge with Gauge Port</td>
<td>G – 1/8-27 NPT Dovetail Gauge Port</td>
<td>2 – 1/4-18 NPT Threads</td>
</tr>
<tr>
<td>M5001</td>
<td>H – 1/4-18 NPT Dovetail Gauge Port</td>
<td>I – 0-60 PSI Gauge with Gauge Port</td>
<td>J – 0-100 PSI Gauge with Gauge Port</td>
<td>K – 0-160 PSI Gauge with Gauge Port</td>
<td>B – Blank Cover</td>
</tr>
<tr>
<td></td>
<td>L – 0-15 PSI Gauge with Gauge Port</td>
<td>S – M5 Threads</td>
<td>W – Wall Mounting Dovetail Bracket</td>
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<td></td>
</tr>
</tbody>
</table>

**Port Location Diagram**

Viewed from top of Regulator

**DIMENSIONS ( ) = Metric Dimensions**

1. **1/4-18 NPT PORTING**
   - 1.000 (25.40)
   - 2.000 (50.80)
   - 1.656 (42.06)
   - 1.660 (47.24)
   - 1.375 (34.93)
   - 1.250 (31.75)

2. **1/8-27 NPT PORTING**
   - 1.000 (25.40)
   - 1.115 (28.29)
   - THRU HOLES (4 PLACES)

3. **10-32 UNF PORTING**
   - 1.000 (25.40)
   - 1.115 (28.29)
   - THRU HOLES (4 PLACES)