High Purity, Corrosion-resistant Valve Products

Quality is our Top Commitment
Application:

Megaflow valve has a wide variety of applications in the Semiconductor, LCD, LED, Photovoltaics, and Chemical Process Industries. The design features were specifically developed for today’s demanding applications in handling ultra-pure liquids and corrosive chemicals. The valve is ideal for applications that demand high pressure capabilities and a high Cv flow factor.
Features and Benefits:

- High Cv Flow Factor
- High Forward and Back Pressure capability
- No exposed external metal components
- Wetted Part:
  - PFA Valve: High Purity PFA/Virgin PTFE
  - PTFE valve: Virgin PTFE
  - PP valve: Virgin PTFE/PP
- 100% tested for operation
- Meets the Semiconductor Industry’s high purity chemical handling requirements
- All Clean Room Assembly / Testing / Packaging
Needle Valve, PTFE, Inline and Angle Flow Pattern

- No metal construction
- All wetted parts are PTFE
- Inline and Angle Flow Pattern
- Manual Multi-Turn actuation

Specifications:
- Orifice: 1/8”, 1/4”, 3/8”, and 1/2” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)

Material of Construction

<table>
<thead>
<tr>
<th>Part</th>
<th>Identification No.</th>
<th>Nominal Size</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Set Screw, 8-32</td>
<td>1/4&quot; LG</td>
<td>NYLON</td>
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<tr>
<td>2</td>
<td>Screw, MS-32</td>
<td>3/4&quot; LG</td>
<td>POLYPROP</td>
</tr>
<tr>
<td>3</td>
<td>Handle</td>
<td>PTFE</td>
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<tr>
<td>4</td>
<td>Ferrule, Bonnet</td>
<td>PTFE</td>
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<td>5</td>
<td>Nut, Bonnet</td>
<td>PTFE</td>
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<td>Stem</td>
<td>PTFE</td>
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<td>7</td>
<td>Bonnet</td>
<td>PTFE</td>
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<td>8</td>
<td>Nut, Retainer</td>
<td>PTFE</td>
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<tr>
<td>9</td>
<td>Body</td>
<td>PTFE</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>1/4&quot; Fl. Nut</td>
<td>PTFE</td>
<td></td>
</tr>
</tbody>
</table>

(Inline configuration with 1/4" Flare End Connections)
Needle Valve, PTFE, Inline and Angle Flow Pattern

Part Numbering System

<table>
<thead>
<tr>
<th>Flow Pattern</th>
<th>Standard Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inline Flow Pattern</strong></td>
<td><strong>Angle Flow Pattern</strong></td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory
1/4”, 2 Way, PFA, Pneumatic Actuated Diaphragm Valve

- No exposed external metal parts
- All wetted parts are PFA/PTFE
- Red Position Indicator
- Pneumatic Normally Closed version

Specifications:
- Orifice: 1/4” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)
- Air Actuation Port: #10-32UNF-2B (M5 x 0.8) thread
- Air Actuation Pressure: 50 psig (3.5 Kg/cm²) to 100 psig (7 kg/cm²)
- Cv:
  - 3/8” Fuse Bond Pipe: 0.90
  - 3/8” Flare: 0.75
  - 1/4” Flare: 0.59

Material of Construction

(Valve shown with 3/8” FL End Connections)
1/4”, 2 Way, PFA, Pneumatic Actuated Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet Port</th>
<th>Outlet Port</th>
<th>“A” dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOV04-0404FL-1</td>
<td>1/4” Flare</td>
<td>1/4” Flare</td>
<td>3.36”</td>
</tr>
<tr>
<td>AOV04-0606FL-1</td>
<td>3/8” Flare</td>
<td>3/8” Flare</td>
<td>3.68”</td>
</tr>
<tr>
<td>AOV04-0606FB-1</td>
<td>3/8” Fuse Bond Pipe</td>
<td>3/8” Fuse Bond Pipe</td>
<td>4.00”</td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory
1/4”, 2 Way, PTFE, Pneumatic Actuated Diaphragm Valve

- No exposed external metal parts
- All wetted parts are PTFE
- Red Position Indicator
- Pneumatic Normally Closed version

Specifications:
- Orifice: 1/4” diameter
- Operating Temperature: 32ºF to 200ºF (0ºC to 95ºC)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32ºF to 120ºF (0ºC to 50ºC)
- Air Actuation Port: #10-32UNF-2B (M5 x 0.8) thread
- Air Actuation Pressure: 50 psig (3.5 Kg/cm²) to 100 psig (7 Kg/cm²)
- Cv:
  1/4” FNPT, 3/8” Flare: 0.75
  1/8” FNPT, 1/4” Flare: 0.59

Material of Construction

(Valve shown with 3/8” FL End Connections)
1/4”, 2 Way, PTFE, Pneumatic Actuated Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet Port</th>
<th>Outlet Port</th>
<th>“A” dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOV04-0202FN-0</td>
<td>1/8” FNPT</td>
<td>1/8” FNPT</td>
<td>2.2”</td>
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<tr>
<td>AOV04-0404FN-0</td>
<td>1/4” FNPT</td>
<td>1/4” FNPT</td>
<td>2.2”</td>
</tr>
<tr>
<td>AOV04-0404FL-0</td>
<td>1/4” Flare</td>
<td>1/4” Flare</td>
<td>3.5”</td>
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<tr>
<td>AOV04-0606FL-0</td>
<td>3/8” Flare</td>
<td>3/8” Flare</td>
<td>3.7”</td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory
1/4”, 2 Way, PFA, Manually Multi Turn Diaphragm Valve

- No exposed external metal parts
- All wetted parts are PFA/PTFE
- Manual Multi-Turn actuation

Specifications:
- Orifice: 1/4” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)
- Cv:
  - 3/8” Fuse Bond Pipe: 0.90
  - 3/8” Flare: 0.75
  - 1/4” Flare: 0.59

Material of Construction

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
<th>Size</th>
<th>Code</th>
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<tbody>
<tr>
<td>G-REIN</td>
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<td>G-REIN</td>
<td>PTFE</td>
<td>3/8</td>
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<tr>
<td>3/8” FLARE</td>
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<tr>
<td>NOZZLE</td>
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<tr>
<td>BODY</td>
<td>PTFE</td>
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(Valve shown with 3/8” FL End Connections)

August 2012 edition
1/4”, 2 Way, PFA Manually Multi Turn Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet Port</th>
<th>Outlet Port</th>
<th>“A” dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOV04-0404FL-1</td>
<td>1/4” Flare</td>
<td>1/4” Flare</td>
<td>3.36”</td>
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<tr>
<td>MOV04-0606FL-1</td>
<td>3/8” Flare</td>
<td>3/8” Flare</td>
<td>3.68”</td>
</tr>
<tr>
<td>MOV04-0606FB-1</td>
<td>3/8” Fuse Bond Pipe</td>
<td>3/8” Fuse Bond Pipe</td>
<td>4.00”</td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory
1/4", 2 Way, PTFE, Manually Multi Turn Diaphragm Valve

- No exposed external metal parts
- All wetted parts are PTFE
- Manual Multi-Turn actuation

Specifications:
- Orifice: 1/4" diameter
- Operating Temperature: 32ºF to 200ºF (0ºC to 95ºC)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32ºF to 120ºF (0ºC to 50ºC)
- Cv:
  - 1/4" FNPT, 3/8" Flare: 0.75
  - 1/8" FNPT, 1/4" Flare: 0.59

Material of Construction

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<table>
<thead>
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</tbody>
</table>

(Valve shown with 3/8" FL End Connections)
1/4”, 2 Way, PTFE, Manually Multi Turn Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet Port</th>
<th>Outlet Port</th>
<th>“A” dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOV04-0202FN-0</td>
<td>1/8” FNPT</td>
<td>1/8” FNPT</td>
<td>2.2”</td>
</tr>
<tr>
<td>MOV04-0404FN-0</td>
<td>1/4” FNPT</td>
<td>1/4” FNPT</td>
<td>2.2”</td>
</tr>
<tr>
<td>MOV04-0404FL-0</td>
<td>1/4” Flare</td>
<td>1/4” Flare</td>
<td>3.5”</td>
</tr>
<tr>
<td>MOV04-0606FL-0</td>
<td>3/8” Flare</td>
<td>3/8” Flare</td>
<td>3.7”</td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory
1/4”, 2 Way, PTFE, Pneumatic Operated Diaphragm Valve
(with Micro-Adjust By-Pass feature)

- No exposed external metal parts
- All wetted parts are PTFE/PEEK
- Red Position Indicator
- Pneumatic Normally Closed version with Micro-Adjust By-Pass feature to control small amount of fluid by-pass when the valve is at Close Position

Specifications:
- Orifice: 1/4” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)
- Air Actuation Port: #10-32UNF-2B (M5 x 0.8) thread
- Air Actuation Pressure: 50 psig (3.5 Kg/cm²) to 100 psig (7 kg/cm²)
- Cv:
  - 1/4” FNPT, 3/8” Flare: 0.75
  - 1/8” FNPT, 1/4” Flare: 0.59

Material of Construction

(Valve shown with 3/8” FL End Connections)
1/4”, 2 Way, PTFE, Pneumatic Operated Diaphragm Valve
(with Micro-Adjust By-Pass feature)

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet Port</th>
<th>Outlet Port</th>
<th>“A” dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOV04-0202FN-0-X1</td>
<td>1/8” FNPT</td>
<td>1/8” FNPT</td>
<td>2.2”</td>
</tr>
<tr>
<td>AOV04-0404FN-0-X1</td>
<td>1/4” FNPT</td>
<td>1/4” FNPT</td>
<td>2.2”</td>
</tr>
<tr>
<td>AOV04-0404FL-0-X1</td>
<td>1/4” Flare</td>
<td>1/4” Flare</td>
<td>3.5”</td>
</tr>
<tr>
<td>AOV04-0606FL-0-X1</td>
<td>3/8” Flare</td>
<td>3/8” Flare</td>
<td>3.7”</td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory
1/4”, 2 Way, PTFE, Pneumatic Operated Diaphragm Valve
(with Flow-Adjust feature)

- No exposed external metal parts
- All wetted parts are PTFE
- Red Position Indicator
- Pneumatic Normally Closed version with Flow-Adjust feature on top of Actuator to control the amount of Piston travel, such that it could limit the volume of fluid flow through the valve

Specifications:
- Orifice: 1/4” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)
- Air Actuation Port: #10-32UNF-2B (M5 x 0.8) thread
- Air Actuation Pressure: 50 psig (3.5 Kg/cm²) to 100 psig (7 kg/cm²)
- Cv:
  - 1/4” FNPT, 3/8” Flare: 0.75
  - 1/8” FNPT, 1/4” Flare: 0.59

Material of Construction

(Valve shown with 3/8” FL End Connections)
1/4”, 2 Way, PTFE, Pneumatic Operated Diaphragm Valve
(with Flow-Adjust feature)

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet Port</th>
<th>Outlet Port</th>
<th>“A” dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOV04-0202FN-0-X3</td>
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<td>1/8” FNPT</td>
<td>2.2”</td>
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<tr>
<td>AOV04-0404FN-0-X3</td>
<td>1/4” FNPT</td>
<td>1/4” FNPT</td>
<td>2.2”</td>
</tr>
<tr>
<td>AOV04-0404FL-0-X3</td>
<td>1/4” Flare</td>
<td>1/4” Flare</td>
<td>3.5”</td>
</tr>
<tr>
<td>AOV04-0606FL-0-X3</td>
<td>3/8” Flare</td>
<td>3/8” Flare</td>
<td>3.7”</td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory
1/4”, 3 Way, PTFE, Pneumatic Operated Diaphragm Valve

- No exposed external metal parts
- All wetted parts are PTFE
- Red Position Indicator
- Pneumatic 3 Way Version

Specifications:
- Orifice: 1/4” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)
- Air Actuation Port: #10-32UNF-2B (M5 x 0.8) thread
- Air Actuation Pressure: 50 psig (3.5 Kg/cm²) to 100 psig (7 kg/cm²)
- Cv:
  - 1/4” FNPT, 3/8” Flare: 0.75
  - 1/8” FNPT, 1/4” Flare: 0.59

Material of Construction

(Valve shown with 1/4” FL End Connections)
1/4”, 3 Way, PTFE, Pneumatic Operated Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet / Outlet Ports</th>
<th>“A” dimension</th>
<th>“B” dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOV04-020202FN-0</td>
<td>1/8” FNPT</td>
<td>2.2”</td>
<td>1.1”</td>
</tr>
<tr>
<td>AOV04-040404FN-0</td>
<td>1/4” FNPT</td>
<td>2.2”</td>
<td>1.1”</td>
</tr>
<tr>
<td>AOV04-040404FL-0</td>
<td>1/4” Flare</td>
<td>3.5”</td>
<td>1.8”</td>
</tr>
<tr>
<td>AOV04-060606FL-0</td>
<td>3/8” Flare</td>
<td>3.7”</td>
<td>1.9”</td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory
1/2”, 2 Way, PFA, Pneumatic Operated Diaphragm Valve

- No exposed external metal parts
- All wetted parts are High Purity PFA/PTFE
- Red Position Indicator
- High Cv Flow Factor
- Pneumatic Normally Closed version

Specifications:
- Orifice: 1/2” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)
- Air Actuation Port: 1/8”-27 FNPT
- Air Actuation Pressure: 60 psig (4 Kg/cm²) to 100 psig (7 kg/cm²)
- Cv:
  3/4” Flare End and 1/2” Fuse Bond Pipe End Connections = 7.3
  1/2” Flare End Connections = 3.2

Material of Construction

(Valve shown with 3/4” FL End Connections)
1/2", 2 Way, PFA, Pneumatic Operated Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet Port</th>
<th>Outlet Port</th>
<th>“A” Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOV08-0808FL-1</td>
<td>1/2” Flare</td>
<td>1/2” Flare</td>
<td>4.9”</td>
</tr>
<tr>
<td>AOV08-1212FL-1</td>
<td>3/4” Flare</td>
<td>3/4” Flare</td>
<td>4.9”</td>
</tr>
<tr>
<td>AOV08-0808FB-1</td>
<td>1/2” Fuse Bond Pipe</td>
<td>1/2” Fuse Bond Pipe</td>
<td>5.0”</td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory.
1/2”, 2 Way, PTFE, Pneumatic Operated Diaphragm Valve

- No exposed external metal parts
- All wetted parts are PTFE
- Red Position Indicator
- High Cv Flow Factor
- Pneumatic Normally Closed version

Specifications:
- Orifice: 1/2” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)
- Air Actuation Port: 1/8”-27 FNPT
- Air Actuation Pressure: 60 psig (4 Kg/cm²) to 100 psig (7 kg/cm²)
- Cv:
  - 3/4” Flare End and 1/2” FNPT End Connections = 7.3
  - 1/2” Flare End Connections = 3.2

Material of Construction

(Valve shown with 3/4” FL End Connections)
1/2", 2 Way, PTFE, Pneumatic Operated Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet Port</th>
<th>Outlet Port</th>
<th>&quot;A&quot; Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOV08-0808FN-0</td>
<td>1/2&quot; FNPT</td>
<td>1/2&quot; FNPT</td>
<td>2.8&quot;</td>
</tr>
<tr>
<td>AOV08-0808FL-0</td>
<td>1/2&quot; Flare</td>
<td>1/2&quot; Flare</td>
<td>4.1&quot;</td>
</tr>
<tr>
<td>AOV08-1212FL-0</td>
<td>3/4&quot; Flare</td>
<td>3/4&quot; Flare</td>
<td>4.7&quot;</td>
</tr>
</tbody>
</table>

Normally Open version is available, please consult factory for Part Number

Note: Other End Connections are available, please consult factory.
1/2”, 2 Way, PFA, Manually Operated Multi Turn Diaphragm Valve

- No metal (external and internal) construction
- All wetted parts are High Purity PFA/PTFE
- Red Position Indicator
- High Cv Flow Factor
- Manual Multi-Turn version

Specifications:
- Orifice: 1/2” diameter
- Operating Temperature: 32ºF to 200ºF (0ºC to 95ºC)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32ºF to 120ºF (0ºC to 50ºC)
- Cv:
  - 3/4” Flare End and 1/2” Fuse Bond Pipe End Connections = 7.3
  - 1/2” Flare End Connections = 3.2

Material of Construction

(Valve shown with 3/4” FL End Connections)

August 2012 edition
1/2”, 2 Way, PFA, Manually Operated Multi Turn Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
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<th>Inlet Port</th>
<th>Outlet Port</th>
<th>“A” Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOV08-0808FL-1</td>
<td>1/2” Flare</td>
<td>1/2” Flare</td>
<td>5.9”</td>
</tr>
<tr>
<td>MOV08-1212FL-1</td>
<td>3/4” Flare</td>
<td>3/4” Flare</td>
<td>5.9”</td>
</tr>
<tr>
<td>MOV08-0808FB-1</td>
<td>1/2” Fuse Bond Pipe</td>
<td>1/2” Fuse Bond Pipe</td>
<td>6.0”</td>
</tr>
</tbody>
</table>

Note: Other End Connections are available, please consult factory. 

August 2012 edition
1/2”, 2 Way, PTFE, Manually Operated Multi Turn Diaphragm Valve

- No metal (external and internal) construction
- All wetted parts are PTFE
- Red Position Indicator
- High Cv Flow Factor
- Manual Multi-Turn version

Specifications:
- Orifice: 1/2” diameter
- Operating Temperature: 32ºF to 200ºF (0ºC to 95ºC)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32ºF to 120ºF (0ºC to 50ºC)
- Cv:
  - 3/4” Flare End and 1/2” FNPT End Connections = 7.3
  - 1/2” Flare End Connections = 3.2

Material of Construction

(Valve shown with 3/4” FL End Connections)
1/2", 2 Way, PTFE, Manually Operated Multi Turn Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>MOV08-0808FN-0</td>
<td>1/2&quot; FNPT</td>
<td>1/2&quot; FNPT</td>
<td>2.8&quot;</td>
</tr>
<tr>
<td>MOV08-0808FL-0</td>
<td>1/2&quot; Flare</td>
<td>1/2&quot; Flare</td>
<td>4.1&quot;</td>
</tr>
<tr>
<td>MOV08-1212FL-0</td>
<td>3/4&quot; Flare</td>
<td>3/4&quot; Flare</td>
<td>4.7&quot;</td>
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</tbody>
</table>

Note: Other End Connections are available, please consult factory
1/2”, 2 Way, PP, Pneumatic Operated Diaphragm Valve

- No exposed external metal parts
- All wetted parts are PP / PTFE
- Red Position Indicator
- High Cv Flow Factor
- Pneumatic Normally Closed version

Specifications:
- Orifice: 1/2” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)
- Air Actuation Port: 1/8”-27 FNPT
- Air Actuation Pressure: 60 psig (4 Kg/cm²) to 100 psig (7 kg/cm²)
- Cv:
  - 3/4” Flare End and 1/2” FNPT End Connections = 7.3
  - 1/2” Flare End Connections = 3.2

Material of Construction

(Valve shown with 3/4” FL End Connections)
1/2", 2 Way, PP, Pneumatic Operated Diaphragm Valve

Dimensions, Part Number (standard item) and Description

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<tbody>
<tr>
<td>AOV08-0808FN-2</td>
<td>1/2&quot; FNPT</td>
<td>1/2&quot; FNPT</td>
<td>2.8&quot;</td>
</tr>
<tr>
<td>AOV08-0808FL-2</td>
<td>1/2&quot; Flare</td>
<td>1/2&quot; Flare</td>
<td>4.1&quot;</td>
</tr>
<tr>
<td>AOV08-1212FL-2</td>
<td>3/4&quot; Flare</td>
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<td>4.7&quot;</td>
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Normally Open version is available, please consult factory for Part Number

Note: Other End Connections are available, please consult factory
1/2”, 2 Way, PP, Manually Operated Multi Turn Diaphragm Valve

- No metal (external and internal) construction
- All wetted parts are PP / PTFE
- Red Position Indicator
- High Cv Flow Factor
- Manual Multi-Turn version

Specifications:
- Orifice: 1/2” diameter
- Operating Temperature: 32ºF to 200ºF (0ºC to 95ºC)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32ºF to 120ºF (0ºC to 50ºC)
- Cv:
  - 3/4” Flare End and 1/2” FNPT End Connections = 7.3
  - 1/2” Flare End Connections = 3.2

Material of Construction

August 2012 edition
1/2”, 2 Way, PP, Manually Operated Multi Turn Diaphragm Valve

Dimensions, Part Number (standard item) and Description

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<td>3/4&quot; Flare</td>
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</table>

Note: Other End Connections are available, please consult factory.
3/4”, 2 Way, PFA, Pneumatic Operated Diaphragm Valve

- No exposed external metal parts
- All wetted parts are High Purity PFA / PTFE
- All injection molded PP components – structural parts
- Red Position Indicator
- ID Tag Feature provided in Actuator Housing
- High Cv Flow Factor
- Pneumatic Normally Closed version

Specifications:
- Orifice: 3/4” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Operating Back Pressure: 85 psig (6 Kg/cm²) at Room Temperature
- Ambient Temperature: 32°F to 120°F (0°C to 50°C)
- Air Actuation Port: 1/8”-27 FNPT
- Air Actuation Pressure: 60 psig (4 Kg/cm²) to 100 psig (7 kg/cm²)
- Cv:
  - 1” Fuse Bond Pipe End Connections = 11.5
  - 1” Flare End and 3/4” Fuse Bond Pipe End Connections = 9.9
  - 3/4” Flare End and 1/2” Fuse Bond Pipe End Connections = 7.3
  - 1/2” Flare End Connections = 3.2

Material of Construction

(Valve shown with 3/4” FL End Connections)
3/4”, 2 Way, PFA, Pneumatic Operated Diaphragm Valve

Dimensions, Part Number (standard item) and Description

<table>
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<td>1” Flare</td>
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</tr>
<tr>
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Normally Open version is available, please consult factory for Part Number

Note: Other End Connections are available, please consult factory
3/4”, 2 Way, PFA, Manually Operated Multi Turn Diaphragm Valve

- No metal (external and internal) construction
- All wetted parts are High Purity PFA / PTFE
- All injection molded PP components – structural parts
- Red Position Indicator
- ID Tag Feature provided in Actuator Housing
- High Cv Flow Factor
- Manual Multi-Turn version

Specifications:
- Orifice: 3/4” diameter
- Operating Temperature: 32°F to 200°F (0°C to 95°C)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
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  - 3/4” Flare End and 1/2” Fuse Bond Pipe End Connections = 7.3
  - 1/2” Flare End Connections = 3.2

Material of Construction

(Valve shown with 3/4” FL End Connections)
3/4”, 2 Way, PFA, Manually Operated Multi Turn Diaphragm Valve

Dimensions, Part Number (standard item) and Description

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Note: Other End Connections are available, please consult factory
3/4”, 2 Way, PP, Pneumatic Operated Diaphragm Valve

- No exposed external metal parts
- All wetted parts are PP / PTFE
- All injection molded PP components – structural parts
- Red Position Indicator
- ID Tag Feature provided in Actuator Housing
- High Cv Flow Factor
- Pneumatic Normally Closed version

Specifications:
- Orifice: 3/4” diameter
- Operating Temperature: 32ºF to 185ºF (0ºC to 85ºC)
- Operating Forward Pressure: 85 psig (6 Kg/cm²) at Room Temperature
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Material of Construction

(Valve shown with 3/4” FL End Connections)
3/4", 2 Way, PP, Pneumatic Operated Diaphragm Valve

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Normally Open version is available, please consult factory for Part Number

Note : Other End Connections are available, please consult factory
3/4”, 2 Way, PP, Manually Operated Multi Turn Diaphragm Valve

- No metal (external and internal) construction
- All wetted parts are PP / PTFE
- All injection molded PP components – structural parts
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Material of Construction

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<tr>
<th>Material</th>
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<tbody>
<tr>
<td>PP</td>
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<tr>
<td>PTFE</td>
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(Valve shown with 3/4” FL End Connections)
3/4", 2 Way, PP, Manually Operated Multi Turn Diaphragm Valve

Dimensions, Part Number (standard item) and Description

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Note: Other End Connections are available, please consult factory.
Megaflow Corporation  
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