Modular Surface-Mount Components and Seals

- 1.5 in. (38.1 mm) C-seal modular design
- Valves: manual and pneumatic diaphragm and bellows-sealed designs
- Regulators: manual and preset, high-flow models
- Gaskets: C-seal style for 1-, 2-, and 3-port configurations
Surface-Mount Components

Low-Pressure Diaphragm Valves, DP Series

Features

- Pressure rating: 250 psig (17.2 bar)
- Temperature rating: –10 to 150°F (–23 to 65°C)
- Directional handle—quarter-turn actuation with visual indication of open and closed position
- Toggle handle—spring-loaded toggle with lockout capability (can be locked in the closed position only)
- Integral lockout handle—quarter-turn actuation with lockout safety feature to prevent actuation (can be locked in the closed position only)
- Interchangeable pneumatic and manual actuators

Ordering Information

<table>
<thead>
<tr>
<th>Manual Actuators</th>
<th>Ordering Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2-Port</td>
</tr>
<tr>
<td>Directional</td>
<td>6LVV-MSM-DP-2-P</td>
</tr>
<tr>
<td>Integral lockout</td>
<td>6LVV-MSM-DPL-2-P</td>
</tr>
<tr>
<td>Toggle</td>
<td>6LVV-MSM-DPT-2-P</td>
</tr>
</tbody>
</table>

| Pneumatic Actuators  | 2-Port             | 3-Port             |
|                      | 2-Port             | 3-Port             |
| Normally closed      | 6LVV-MSM-DP-2-P-C  | 6LVV-MSM-DP-3-P-C  |
| Normally open        | 6LVV-MSM-DP-2-P-O  | 6LVV-MSM-DP-3-P-O  |

Handle Color Options

Standard handle color is blue. To order an optional color, add a color designator to the ordering number.

Example: 6LVV-MSM-DPT-2-P-RD

Indicator Switch Option

To order a normally closed pneumatically actuated valve with an indicator switch, add M to the ordering number.

Example: 6LVV-MSM-DP-2-P-CM

For additional information, see the Swagelok Springless Diaphragm Valves for High Performance—DP Series catalog, MS-01-165.

Bellows-Sealed Metering Valves, BM Series

Features

- Pressure rating: 700 psig (48.2 bar)
- Temperature rating: –20 to 600°F (–28 to 315°C)
- Micrometer handle for precise, repeatable flow settings

Ordering Information

<table>
<thead>
<tr>
<th>Ordering Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Port</td>
</tr>
<tr>
<td>3-Port</td>
</tr>
<tr>
<td>6LVV-MSM-BM-2</td>
</tr>
<tr>
<td>6LVV-MSM-BM-3</td>
</tr>
</tbody>
</table>

For additional information, see the Swagelok Bellows-Sealed Metering Valves—BM Series catalog, MS-01-23.
Surface-Mount Components
High-Flow Regulators, HF Series

For additional information, see the Swagelok Compact, High-Flow Gas Regulators—HF Series catalog, MS-01-156, for preset models, and the Swagelok High-Flow Manual Gas Regulators—HF Series catalog, MS-02-157, for manual models.

Features
- Inlet pressure rating: 1000 psig (68.9 bar) for preset models; 500 psig (34.4 bar) for manual models
- Outlet pressure rating: vacuum to 150 psig (10.3 bar) for preset models; 100 psig (6.8 bar) for manual models
- Temperature rating: –10 to 150°F (~–23 to 65°C)
- Flow rates up to 200 std L/min
- Preset models can be factory-charged to a specific delivery pressure or set up for remote adjustment of delivery pressure.
- Manually adjustable models are offered with a choice of three spring ranges for delivery pressure.

Ordering Information

For a complete ordering number, change XX to a factory-set outlet pressure of 10, 20, 30, or 50 psig (0.69, 1.3, 2.0, or 3.4 bar). Example: SS-MSM-HFD3B-P10

To order a complete assembly, order a regulator and a spring kit. See Spring Kits for Manual Models table at right for ordering numbers.

Gaskets and Gasket Assemblies
- C-seal for a 1.5 in. (38.1 mm) modular system
- 316L stainless steel material of construction
- Helium leak-tight integrity to less than 1 × 10−9 std cm3/s

Ordering Information and Dimensions

Dimensions, in inches (millimeters), are for reference only and are subject to change.

<table>
<thead>
<tr>
<th>Gasket Description</th>
<th>Ordering Number</th>
<th>Assembly Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-port surface mount</td>
<td>201097</td>
<td>1 for each 3-port surface-mount component</td>
</tr>
<tr>
<td>2-port surface mount</td>
<td>201096</td>
<td>1 for each 2-port surface-mount component</td>
</tr>
<tr>
<td>Mass flow controller</td>
<td>201098</td>
<td>2 for each mass flow controller</td>
</tr>
</tbody>
</table>
Safe Product Selection
When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

⚠️ WARNING
Do not mix/interchange Swagelok products or components not governed by industrial design standards, including Swagelok tube fitting end connections, with those of other manufacturers.

Warranty Information
Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.