

# Bellows-Sealed Valves

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| Valves                |
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# Low Pressure Bellows-Sealed Valves

## SM Series



### Introduction

SM Series Low Pressure Bellows-Sealed Valves are suitable for high purity and ultra high purity applications. Replacing packing with bellows as the seal effectively improves valve cleanliness and extends service life. Additionally, parts prone to damage are easy to replace.

### Features

- ⦿ Metal-to-metal gasket seal without external leakage
- ⦿ Precision-formed metal bellows to ensure reliability
- ⦿ Non-rotating stem tip to increase shutoff cycle life
- ⦿ Manual and pneumatic actuator available
- ⦿ Pneumatic actuator to rotate 360° for ease of installation
- ⦿ Panel mounting and bottom mounting available
- ⦿ Position sensors available assembled on normally closed pneumatically actuated valves

### Technical Data

|                                       |           |   |                                   |
|---------------------------------------|-----------|---|-----------------------------------|
| Ports Size                            |           | 1/4" to 3/8"<br>or 6 mm to 8 mm   | 3/8" to 1/2"<br>or 10 mm to 12 mm |
| Flow Coefficient (Cv)                 |           | 0.30  | 0.80                              |
| Orifice Size                          |           | 0.16 in. (4.1mm)  | 0.31 in. (8.0 mm)                 |
| Max. Working Pressure                 | Manual    | 500 psig (34.4 bar)   |                                   |
|                                       | Pneumatic | 145 psig (10 bar)   |                                   |
| Pneumatic Actuator Operating Pressure |           | 60 to 90 psig (4.2 to 6.2 bar)  |                                   |
| Temperature                           |           | PCTFE: -40 ~ 200 °F (-40 ~ 93 °C)<br>PFA: -40 ~ 302 °F (-40 ~ 150 °C)<br>Polyimide: -40 ~ 400 °F (-40 ~ 204 °C) |                                   |
| Leak Rate (Helium)                    | Internal  | ≤4×10 <sup>-9</sup> std·cm <sup>3</sup> /s  |                                   |
|                                       | External  | ≤4×10 <sup>-9</sup> std·cm <sup>3</sup> /s  |                                   |

### Flow Data

Air @ 70 °F (21 °C)  
Water @ 60 °F (16 °C)

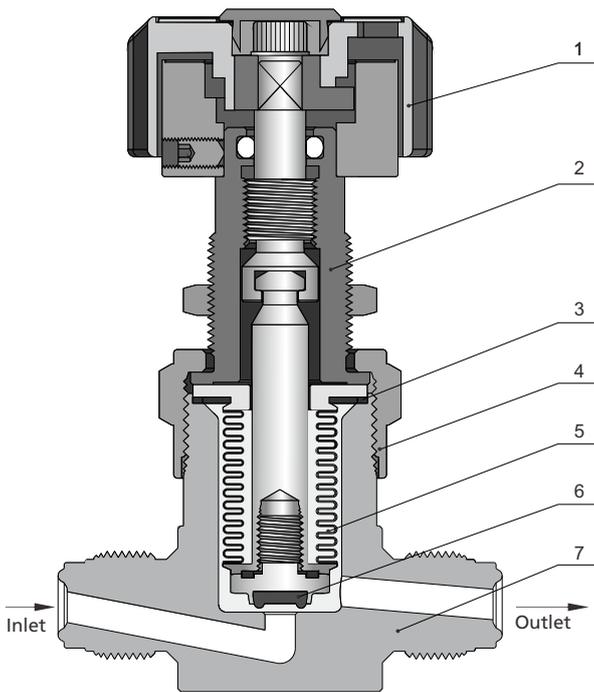
| Orifice in. (mm) | Pressure Drop to Atmosphere psig (bar) | Air (l/min) | Water (l/min) |
|------------------|--|-------------|---------------|
| 0.16 (4.1)       | 10 (0.68)                              | 96          | 3.6           |
|                  | 50 (3.4)                               | 250         | 7.9           |
|                  | 100 (6.8)                              | 450         | 11.0          |
| 0.31 (8.0)       | 10 (0.68)                              | 270         | 9.6           |
|                  | 50 (3.4)                               | 730         | 21.6          |
|                  | 100 (6.8)                              | 1280        | 30.0          |

## Process Specification

| Item                     | Standard Cleaning and Packaging Process (FC-01)<br>Special Cleaning and Packaging Process (FC-02) | Ultra High Purity Process (FC-03) |
|--------------------------|---|-----------------------------------|
| Material                 | 316 SS, 316L SS   | 316L SS, 316L SS VAR              |
| Wetted Surface Roughness | Ra 20 µin. (0.50 µm)  | Ra 8 µin. (0.20 µm)               |
| Polishing Process        | Machine finished  | Electropolished                   |

Note: Refer to page P-01 for a detailed description of Process Specification.

## Major Materials of Construction



Manual Model

| Item | Component     | Material/Specification                          |
|------|---------------|---|
| 1    | Handle        | ABS/Aluminum                                    |
| 2    | Bonnet        | 316 SS/ASTM A479                                |
| 3    | Bonnet Gasket | 316L SS/ASTM A269                               |
| 4    | Bonnet Nut    | 316 SS/ASTM A479                                |
| 5    | Bellows       | 316L SS/ASTM A269                               |
| 6    | Seat          | PCTFE/ASTM D1430 or PFA/ASTM D3307 or Polyimide |
| 7    | Body          | 316 SS or 316L SS or 316L SS VAR                |

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Technical Information

## Handles and Actuators

### Manual - Round Handle

- One-half turn to operate from fully open to closed
- Handle with window to visually indicate open and closed states



Normal Temperature Model

High Temperature Model

### Pneumatic

- Normally open, "N.O." marked on the top of the actuator
- Normally closed, "N.C." marked on the top of the actuator



### Position Sensors

Transmit a signal to an electrical device indicating the open and closed position of pneumatically actuated valves.

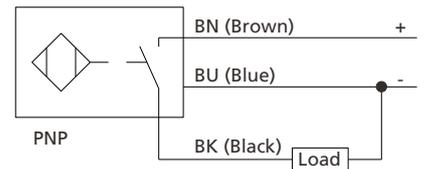
#### Technical Information

|                            |                                  |
|----------------------------|----------------------------------|
| <b>Output</b>              | 3-wire V (dc), PNP               |
| <b>Output Function</b>     | Normally open or normally closed |
| <b>Voltage</b>             | 10 ~ 30 V (dc)                   |
| <b>Working Temperature</b> | -13 ~ 158 °F (-25 ~ 70 °C)       |

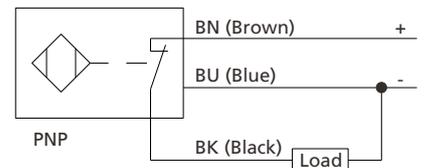
**Note:**  
For normally closed pneumatic actuator valves, when fitted with normally open sensors, the sensors transmit signals with indicators illuminated when the valves are open. Conversely, when fitted with normally closed sensors, the sensors transmit signals with indicators illuminated when the valves are closed.

#### Wiring Diagram

##### Normally Open Position Sensor



##### Normally Closed Position Sensor



### Explosion-proof Position Sensors

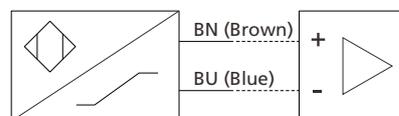
Transmit a signal to an electrical device, indicating the open and closed positions of pneumatically actuated valves.

Equipment Group II under ATEX Certification. The output complies with DIN EN 6094 7-5-6 (NAMUR) and the sensor should be used with an isolation amplifier.

#### Technical Information

|                            |                            |
|----------------------------|----------------------------|
| <b>Output</b>              | 2 Wires DC                 |
| <b>Voltage</b>             | 8.2 V (dc)                 |
| <b>Working Temperature</b> | -13 ~ 158 °F (-25 ~ 70 °C) |

#### Wiring Diagram



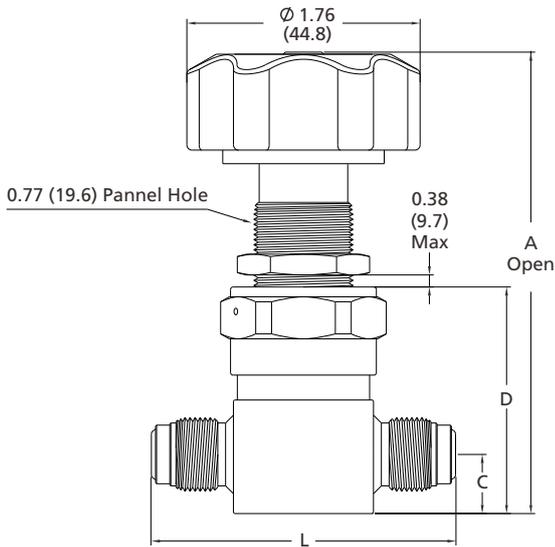
# Dimensions and Ordering Information

## Straight Type

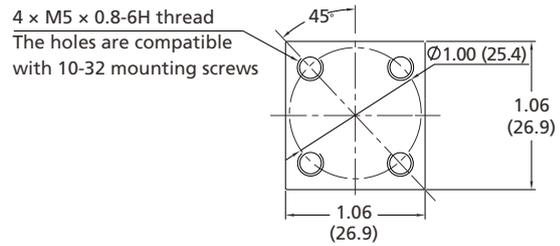
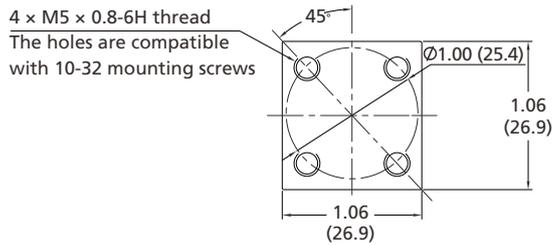
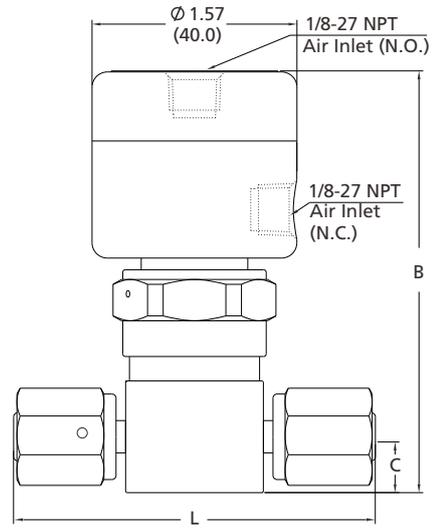
### Dimensions

Dimensions, in inches (millimeters), are for reference only.

**Manual - Handle**



**Pneumatic**



Fittings

Valves

Regulators

Filters

Tubing

Integrated Systems

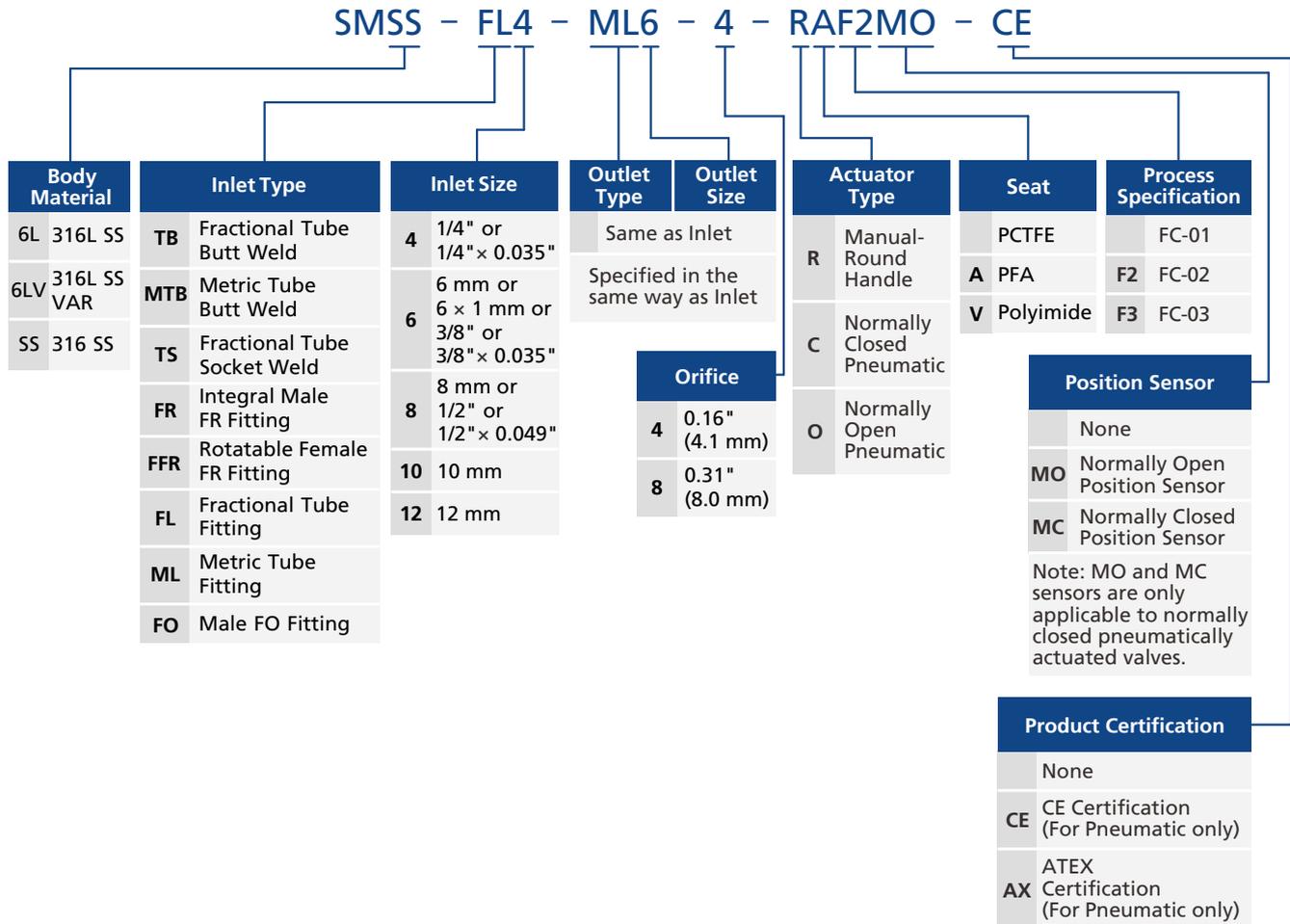
Other Products

Technical Information

V-133 Bellows-Sealed Valves

|                       | Orifice in. (mm)         | Basic Ordering Number | Connection Type and Size         | Dimensions, in. (mm) |                |                |                |            |            |
|-----------------------|--------------------------|-----------------------|----------------------------------|----------------------|----------------|----------------|----------------|------------|------------|
|                       |                          |                       |                                  | A                    | B              | C              | D              | L          |            |
| Fittings              | 0.16<br>(4.1)            | SM□□-FL4-4-           | 1/4" FITOK Tube Fitting          | 3.51<br>(89.4)       | 3.31<br>(84.0) | 0.45<br>(11.4) | 1.78<br>(45.2) | 2.44(62.1) |            |
|                       |                          | SM□□-FL6-4-           | 3/8" FITOK Tube Fitting          |                      |                |                |                | 2.58(65.5) |            |
|                       |                          | SM□□-ML6-4-           | 6 mm FITOK Tube Fitting          |                      |                |                |                | 2.47(62.8) |            |
|                       |                          | SM□□-ML8-4-           | 8 mm FITOK Tube Fitting          |                      |                |                |                | 2.53(64.3) |            |
|                       |                          | SM□□-TB4-4-           | 1/4"× 0.035" Tube Butt Weld      |                      |                |                |                | 1.74(44.2) |            |
|                       |                          | SM□□-TB6-4-           | 3/8"× 0.035" Tube Butt Weld      |                      |                |                |                |            |            |
|                       |                          | SM□□-MTB6-4-          | 6 × 1 mm Tube Butt Weld          |                      |                |                |                |            |            |
|                       |                          | SM□□-TS4-4-           | 1/4" Tube Socket Weld            |                      |                |                |                |            |            |
|                       |                          | SM□□-FR4-4-           | 1/4" Integral Male FR Fitting    |                      |                |                |                |            |            |
|                       |                          | SM□□-FFR4-4-          | 1/4" Rotatable Female FR Fitting |                      |                |                |                |            |            |
|                       |                          | SM□□-FO4-4-           | 1/4" Male FO                     |                      |                |                |                |            |            |
| SM□□-FL6-8-           | 3/8" FITOK Tube Fitting  | 2.58(65.5)            |                                  |                      |                |                |                |            |            |
| SM□□-FL8-8-           | 1/2" FITOK Tube Fitting  | 2.80(71.1)            |                                  |                      |                |                |                |            |            |
| SM□□-ML10-8-          | 10 mm FITOK Tube Fitting | 2.60(66.0)            |                                  |                      |                |                |                |            |            |
| Valves                | 0.31<br>(8.0)            | SM□□-ML12-8-          | 12 mm FITOK Tube Fitting         | 3.77<br>(95.7)       | 3.76<br>(95.5) | 0.53<br>(13.5) | 2.02<br>(51.3) |            | 2.80(71.1) |
|                       |                          | SM□□-TB6-8-           | 3/8"× 0.035" Tube Butt Weld      |                      |                |                |                | 1.74(44.2) |            |
|                       |                          | SM□□-TB8-8-           | 1/2"× 0.049" Tube Butt Weld      |                      |                |                |                | 1.74(44.2) |            |
|                       |                          | SM□□-FR8-8-           | 1/2" Integral Male FR Fitting    |                      |                |                |                |            |            |
|                       |                          | SM□□-FFR8-8-          | 1/2" Rotatable Female FR Fitting |                      |                |                |                |            |            |
|                       |                          |                       |                                  |                      |                |                |                |            | 2.58(65.5) |
|                       |                          |                       |                                  |                      |                |                |                |            | 3.15(80.0) |
| Regulators            |                          |                       |                                  |                      |                |                |                |            |            |
| Filters               |                          |                       |                                  |                      |                |                |                |            |            |
| Tubing                |                          |                       |                                  |                      |                |                |                |            |            |
| Integrated Systems    |                          |                       |                                  |                      |                |                |                |            |            |
| Other Products        |                          |                       |                                  |                      |                |                |                |            |            |
| Technical Information |                          |                       |                                  |                      |                |                |                |            |            |

Ordering Number Description



Notes:

- "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available, Should you have any questions, please contact FITOK Group or our authorized distributors.
- For the -CE or AX options, the valve conforms to ATEX certification, with "CE" marking and explosion protection "EX" marking. For position sensor selections, the -CE option includes a 3-wire position sensor compliant with CE certification, while the -AX option includes a 2-wire explosion-proof position sensor compliant with ATEX certification. The 2-wire explosion-proof position sensor requires use with an isolating switch amplifier.

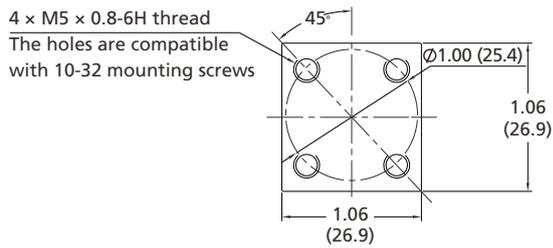
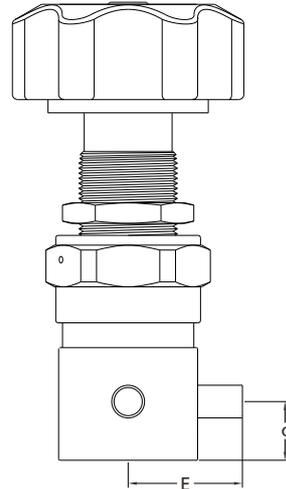
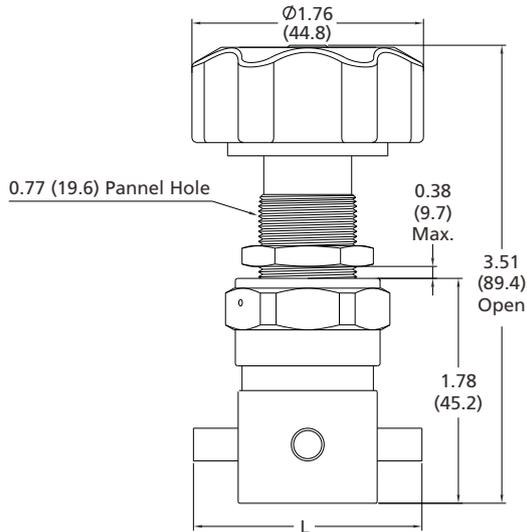
Fittings  
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## Branch Type

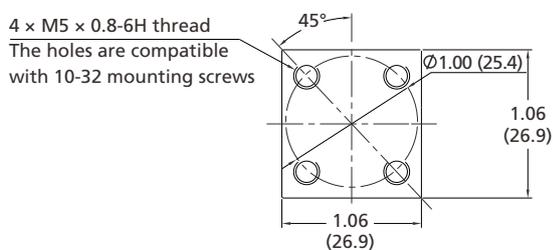
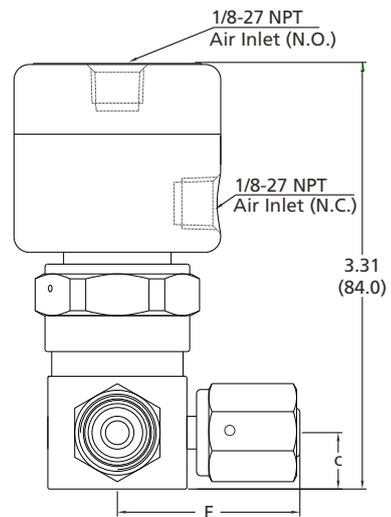
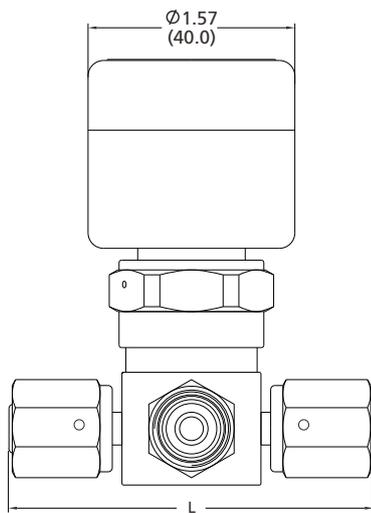
### Dimensions

Dimensions, in inches (millimeters), are for reference only.

#### Manual - Round Handle



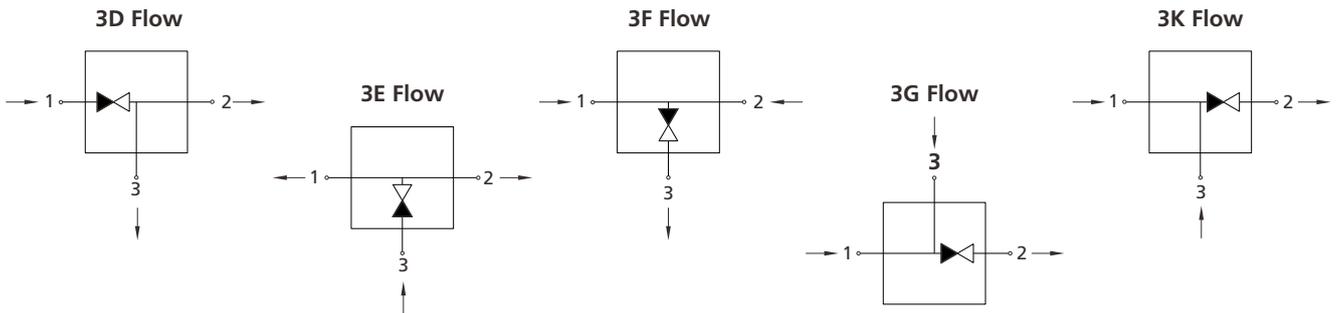
#### Pneumatic



| Basic Ordering Number | Connection Type and Size         | Dimensions, in. (mm) |             |             |
|-----------------------|----------------------------------|----------------------|-------------|-------------|
|                       |                                  | C                    | E           | L           |
| SM□□-TB4-4-           | 1/4" x 0.035" Tube Butt Weld     | 0.45 (11.4)          | 0.87 (22.1) | 1.74 (44.2) |
| SM□□-MTB6-4-          | 6 x 1 mm Tube Butt Weld          |                      | 1.38 (35.1) | 2.76 (70.1) |
| SM□□-FFR4-4-          | 1/4" Rotatable Female FR Fitting |                      | 1.74 (44.2) | 3.48 (88.4) |
| SM□□-RFR4-4-          | 1/4" Rotatable Male FR Fitting   |                      |             |             |

**Flow Paths**

© Flow paths as viewed from the top



**Ordering Number Description**

**SMSS - TB4 - FR4 - FFR4 - 4 - 3G - RAF2MO - CE**

| Body Material   | Port 1 Type                            | Port 2/3 Type                       | Port 2/3 Size | Flow Path | Actuator Type                    | Seat                               | Process Specification |          |
|-----------------|--|-------------------------------------|---------------|-----------|----------------------------------|------------------------------------|-----------------------|----------|
| 6L 316L SS      | <b>TB</b> Fractional Tube Butt Weld    | Same as Port 1                      |               | 3D        | <b>R</b> Manual-Round Handle     | PCTFE                              | FC-01                 |          |
| 6LV 316L SS VAR | <b>MTB</b> Metric Tube Butt Weld       | Specified in the same way as Port 1 |               | 3E        |                                  | <b>C</b> Normally Closed Pneumatic | <b>A</b> PFA          | F2 FC-02 |
| SS 316 SS       | <b>TS</b> Fractional Tube Socket Weld  |                                     |               | 3F        | <b>O</b> Normally Open Pneumatic |                                    | <b>V</b> Polyimide    | F3 FC-03 |
|                 | <b>FR</b> Integral Male FR Fitting     |                                     |               | 3G        |                                  |                                    |                       |          |
|                 | <b>FFR</b> Rotatable Female FR Fitting |                                     |               | 3K        |                                  |                                    |                       |          |
|                 | <b>FL</b> Fractional Tube Fitting      |                                     |               |           |                                  |                                    |                       |          |
|                 | <b>ML</b> Metric Tube Fitting          |                                     |               |           |                                  |                                    |                       |          |
|                 | <b>FO</b> Male FO Fitting              |                                     |               |           |                                  |                                    |                       |          |

| Port 1 Size |                       |
|-------------|-----------------------|
| <b>4</b>    | 1/4" or 1/4" x 0.035" |
| <b>6</b>    | 6x1 mm or 3/8"        |
| <b>8</b>    | 8 mm                  |

| Orifice  |                |
|----------|----------------|
| <b>4</b> | 0.16" (4.1 mm) |

| Position Sensor |                                 |
|-----------------|---------------------------------|
|                 | None                            |
| <b>MO</b>       | Normally Open Position Sensor   |
| <b>MC</b>       | Normally Closed Position Sensor |

Note: MO and MC sensors are only applicable to normally closed pneumatically actuated valves.

| Product Certification |   |
|-----------------------|---|
|                       | None                                    |
| <b>CE</b>             | CE Certification (For Pneumatic only)   |
| <b>AX</b>             | ATEX Certification (For Pneumatic only) |

**Notes:**

- "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available, Should you have any questions, please contact FITOK Group or our authorized distributors.
- For the -CE or AX options, the valve conforms to ATEX certification, with "CE" marking and explosion protection "EX" marking. For position sensor selections, the -CE option includes a 3-wire position sensor compliant with CE certification, while the -AX option includes a 2-wire explosion-proof position sensor compliant with ATEX certification. The 2-wire explosion-proof position sensor requires use with an isolating switch amplifier.

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# High Pressure Pneumatic Bellows-Sealed Valves

## SVH Series

### Introduction

SVH Series High Pressure Pneumatic Bellows-Sealed Valves are suitable for high purity and ultra high purity applications. Replacing packing with bellows as the seal effectively improves valve cleanliness and extends service life. Additionally, parts prone to damage are easy to replace.

### Features

- Packless valves with all-metal seal to atmosphere
- Compact designed body with minimal dead space
- 316L SS precision-formed bellows for long cycle life
- PCTFE stem tip material with remarkable chemical and thermal resistance
- Normally closed and normally open pneumatic actuator optional
- Bottom mounting
- Normally open and normally closed position sensors optional



### Technical Data

|                       |   |  |
|-----------------------|---|--|
| Ports Size            | 1/4" to 3/8" or 6 mm to 8 mm  |  |
| Flow Coefficient (Cv) | 0.30  |  |
| Orifice Size          | 0.15 in. (3.8 mm)   |  |
| Max. Working Pressure | 3500 psig (241 bar)   |  |
| Temperature           | PCTFE: -40 ~ 150 °F (-40 ~ 65 °C)<br>Polyimide: -40 ~ 400 °F (-40 ~ 204 °C) |  |
| Leak Rate (Helium)    | Internal  | $\leq 4 \times 10^{-9}$ std·cm <sup>3</sup> /s |
|                       | External  | $\leq 4 \times 10^{-9}$ std·cm <sup>3</sup> /s |

### Flow Data

Air @ 70 °F (21 °C)  
Water @ 60 °F (16 °C)

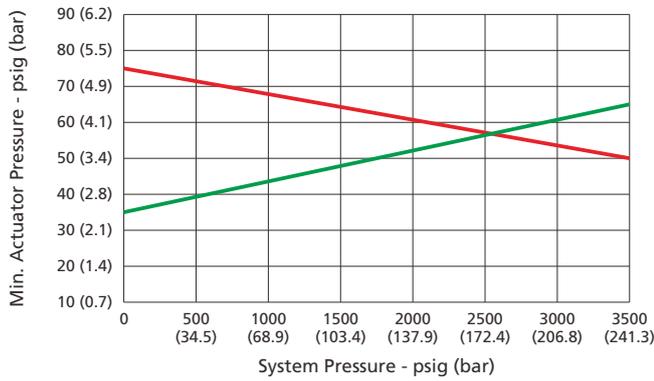
| Pressure Drop to Atmosphere psig (bar) | Air (l/min) | Water (l/min) |
|--|-------------|---------------|
| 10 (0.68)                              | 96          | 3.6           |
| 50 (3.4)                               | 250         | 7.9           |
| 100 (6.8)                              | 450         | 11.0          |

### Process Specification

| Item                     | Process Specification | Standard Cleaning and Packaging Process (FC-01)<br>Special Cleaning and Packaging Process (FC-02) | Ultra High Purity Process (FC-03) |
|--------------------------|-----------------------|---|-----------------------------------|
|                          | Material              |   | 316 SS, 316L SS                   |
| Wetted Surface Roughness |                       | Ra 20 μin. (0.5 μm)   | Ra 10 μin. (0.25 μm)              |
| Polishing Process        |                       | Machine finished  | Electropolished                   |

Note: Refer to page P-01 for a detailed description of Process Specification.

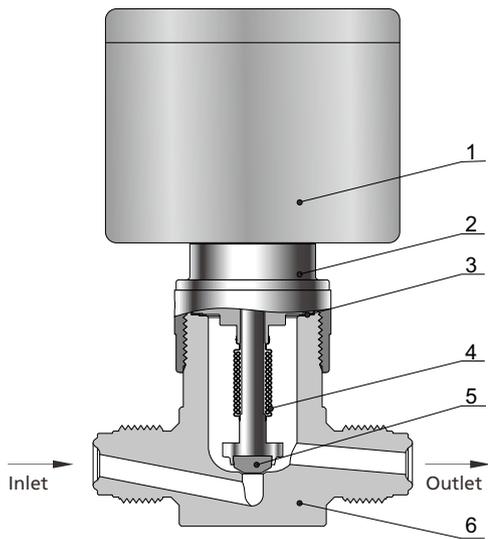
## Pneumatic Actuator Performance



— Normally Open  
— Normally Closed

Note: To ensure optimal valve performance, the pressure for normally open pneumatic actuators shall be maintained above 35 psig (2.4 bar), as indicated in the chart.

## Major Materials of Construction



Normally Closed Model

| Item | Component          | Material/Specification        |
|------|--------------------|-------------------------------|
| 1    | Pneumatic Actuator | Aluminum                      |
| 2    | Bonnet Nut         | 304 SS/ASTM A479              |
| 3    | Gasket             | PTFE-Coated 316L SS/A240      |
| 4    | Bellows            | 316L SS/ASTM A269             |
| 5    | Seat               | PCTFE/ASTM D1430 or Polyimide |
| 6    | Body               | 316 SS or 316L SS             |

## Pneumatic Actuators

- ☉ Normally open, "N.O." marked on the top of the actuator
- ☉ Normally closed, "N.C." marked on the top of the actuator



**Position Sensors**

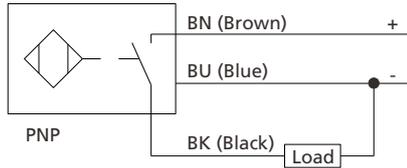
Transmit a signal to an electrical device indicating the open and closed position of pneumatically actuated valves

**Technical Information**

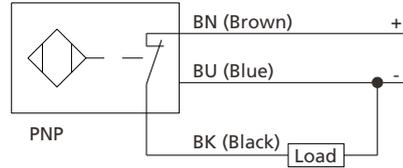
|                            |                                  |
|----------------------------|----------------------------------|
| <b>Output</b>              | 3-wire V (dc), PNP               |
| <b>Output Function</b>     | Normally open or normally closed |
| <b>Voltage</b>             | 10 ~ 30 V (dc)                   |
| <b>Working Temperature</b> | -13 ~ 158 °F (-25 ~ 70 °C)       |

**Wiring Diagram**

Normally Open Position Sensor



Normally Closed Position Sensor



Notes:

1. For normally closed pneumatically actuated valves, when fitted with normally open sensors, the sensors transmit signals with indicators illuminated when the valves are open. Conversely, when fitted with normally closed sensors, the sensors transmit signals with indicators illuminated when the valves are closed.
2. For normally open pneumatically actuated valves, when fitted with normally open sensors, the sensors transmit signals with indicators illuminated when the valves are open. Conversely, when fitted with normally closed sensors, the sensors transmit signals with indicators illuminated when the valves are closed.

**Explosion-proof Position Sensors**

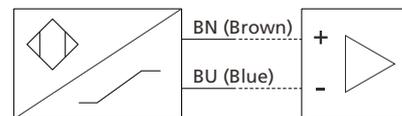
Transmit a signal to an electrical device, indicating the open and closed positions of pneumatically actuated valves.

Equipment Group II under ATEX Certification. The output complies with DIN EN 6094 7-5-6 (NAMUR) and the sensor should be used with an isolation amplifier.

**Technical Information**

|                            |                            |
|----------------------------|----------------------------|
| <b>Output</b>              | 2 Wires DC                 |
| <b>Voltage</b>             | 8.2 V (dc)                 |
| <b>Working Temperature</b> | -13 ~ 158 °F (-25 ~ 70 °C) |

**Wiring Diagram**



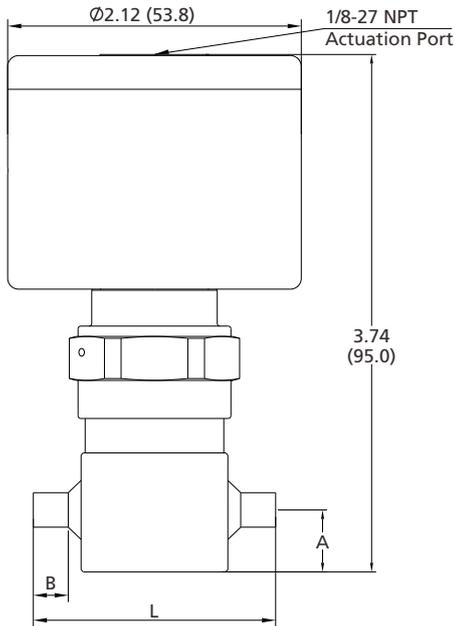
# Dimensions and Ordering Information

## Straight Type

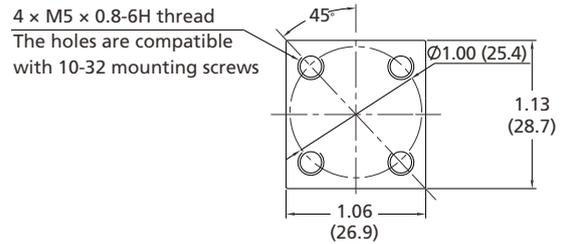
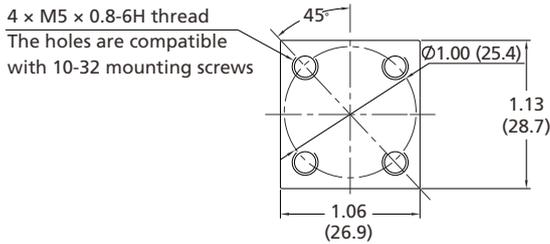
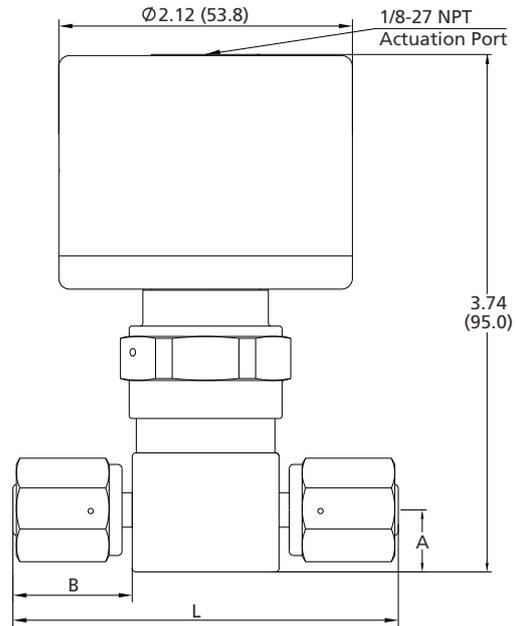
### Dimensions

Dimensions, in inches (millimeters), are for reference only.

**Normally Closed**

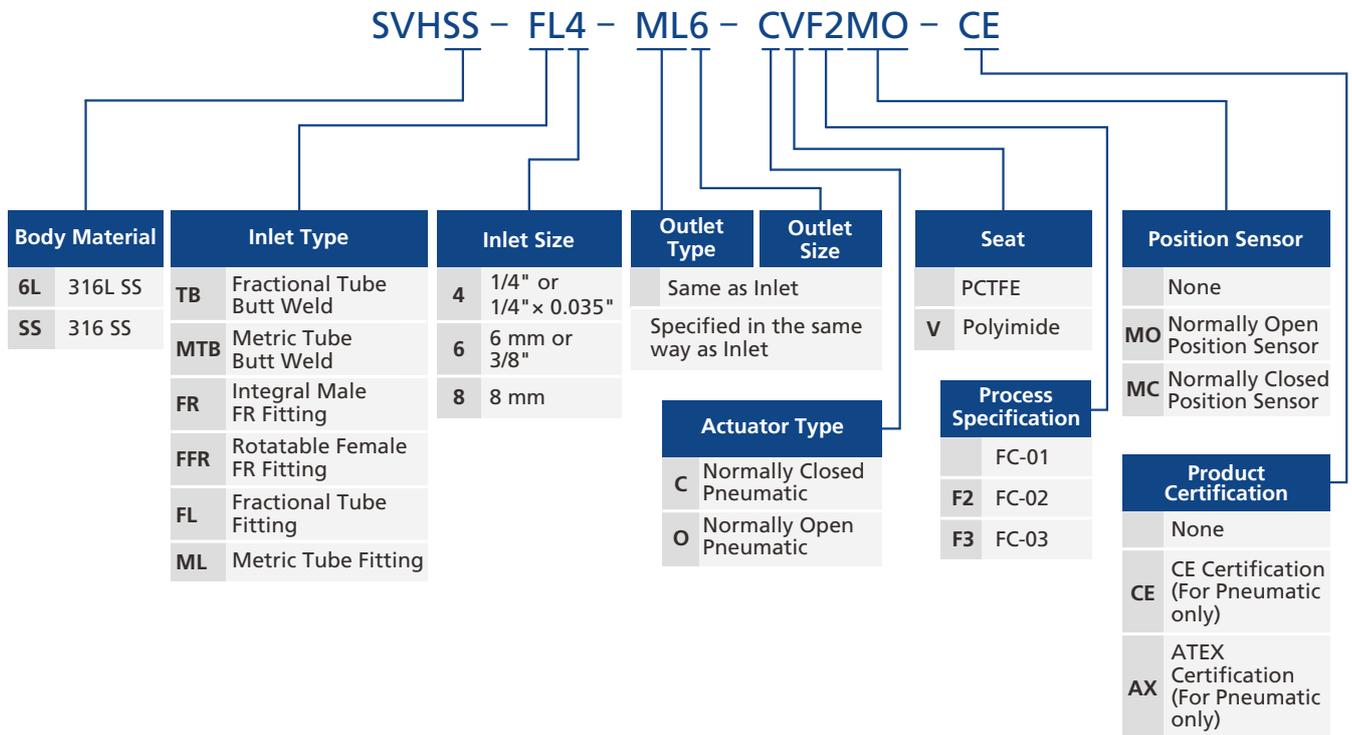


**Normally Open**



| Basic Ordering Number | Connection Type and Size         | Dimensions in. (mm) |             |             |
|-----------------------|----------------------------------|---------------------|-------------|-------------|
|                       |                                  | A                   | B           | L           |
| SVH□□-TB4-            | 1/4" x 0.035" Tube Butt Weld     | 0.45 (11.4)         | 0.25 (6.4)  | 1.75 (44.4) |
| SVH□□-FFR4-           | 1/4" Rotatable Female FR Fitting |                     | 0.85 (21.6) | 2.76 (70.1) |
| SVH□□-FR4-            | 1/4" Integral Male FR Fitting    |                     | 0.62 (15.7) | 2.30 (58.4) |
| SVH□□-FL4-            | 1/4" FITOK Tube Fitting          |                     | 0.70 (17.8) | 2.46 (62.5) |
| SVH□□-FL6-            | 3/8" FITOK Tube Fitting          |                     | 0.76 (19.3) | 2.58 (65.5) |
| SVH□□-ML6-            | 6 mm FITOK Tube Fitting          |                     | 0.70 (17.9) | 2.47 (62.8) |

Ordering Number Description



Notes:

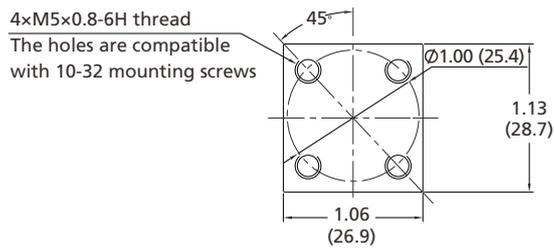
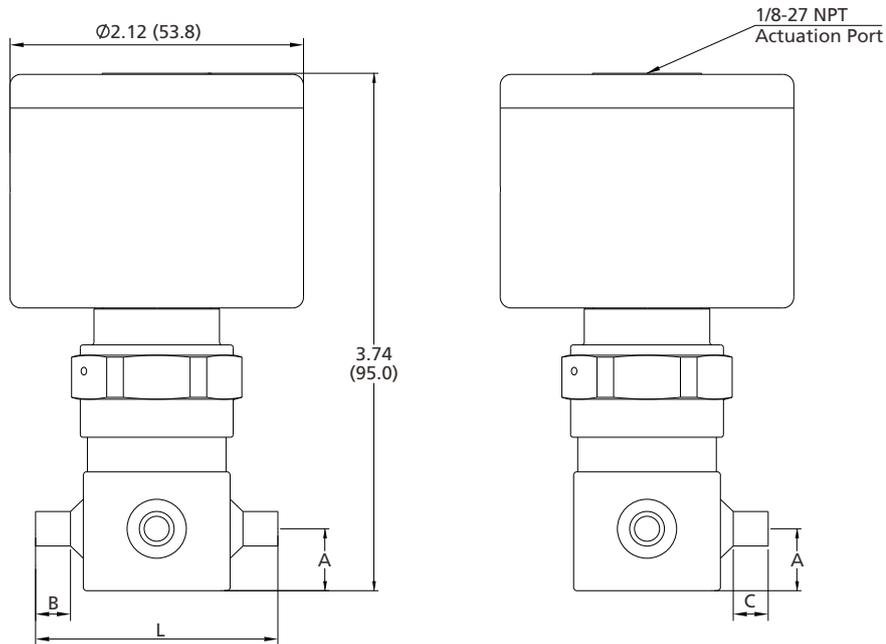
- "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available. Should you have any questions, please contact FITOK Group or our authorized distributors.
- For the -CE or AX options, the valve conforms to ATEX certification, with "CE" marking and explosion protection "EX" marking. For position sensor selections, the -CE option includes a 3-wire position sensor compliant with CE certification, while the -AX option includes a 2-wire explosion-proof position sensor compliant with ATEX certification. The 2-wire explosion-proof position sensor requires use with an isolating switch amplifier.

## Branch Type

### Dimensions

Dimensions, in inches (millimeters), are for reference only.

Normally Closed



Fittings

Valves

Regulators

Filters

Tubing

Integrated Systems

Other Products

Technical Information

# V-143 Bellows-Sealed Valves

Fittings

Valves

Regulators

Filters

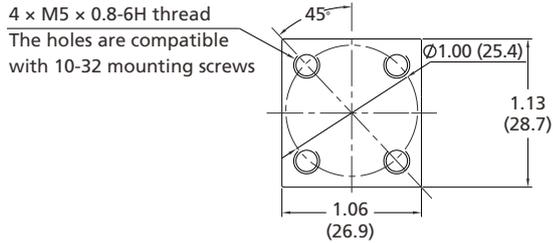
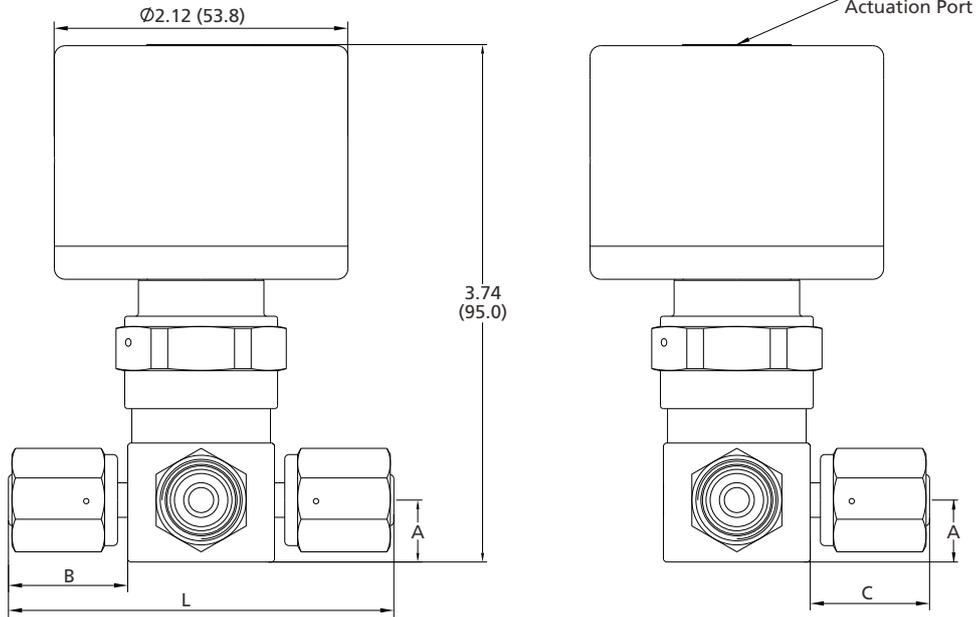
Tubing

Integrated Systems

Other Products

Technical Information

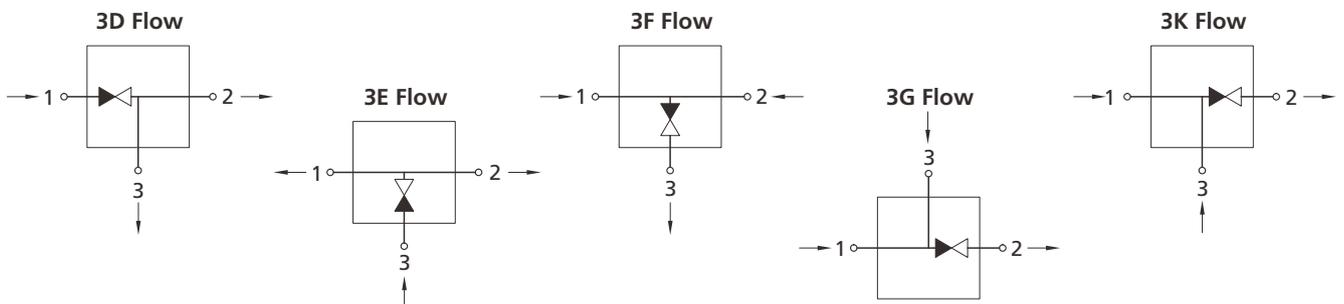
## Normally Open



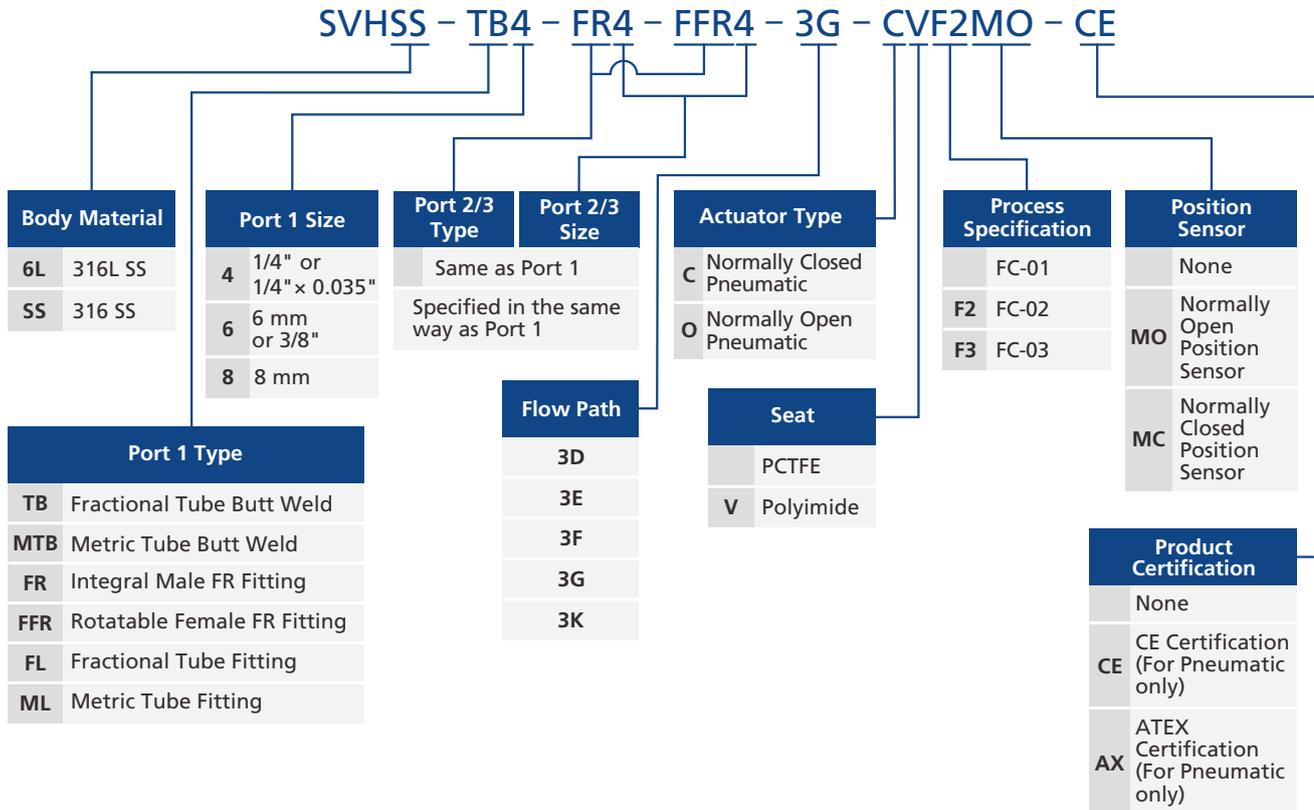
| Basic Ordering Number | Connection Type and Size         | Dimensions in. (mm) |             |             |             |
|-----------------------|----------------------------------|---------------------|-------------|-------------|-------------|
|                       |                                  | A                   | B           | C           | L           |
| SVH□□-TB4-            | 1/4" × 0.035" Tube Butt Weld     | 0.44 (11.2)         | 0.25 (6.4)  | 0.25 (6.4)  | 1.75 (44.4) |
| SVH□□-FFR4-           | 1/4" Rotatable Female FR Fitting |                     | 0.85 (21.6) | 0.85 (21.6) | 2.76 (70.1) |
| SVH□□-FR4-            | 1/4" Integral Male FR Fitting    |                     | 0.62 (15.7) | 0.62 (15.7) | 2.30 (58.4) |
| SVH□□-FL4-            | 1/4" FITOK Tube Fitting          |                     | 0.70 (17.8) | 0.70 (17.8) | 2.46 (62.5) |
| SVH□□-FL6-            | 3/8" FITOK Tube Fitting          |                     | 0.76 (19.3) | 0.76 (19.3) | 2.58 (65.5) |
| SVH□□-ML6-            | 6 mm FITOK Tube Fitting          |                     | 0.70 (17.8) | 0.70 (17.9) | 2.47 (62.8) |

## Flow Paths

☉ Flow paths as viewed from the top



Ordering Number Description



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|                       |
|-----------------------|
| Fittings              |
| Valves                |
| Regulators            |
| Filters               |
| Tubing                |
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