

# Bellows-Sealed 3-Valve Manifolds

## V3 Series

The Swagelok® 3-valve manifold uses bellows-sealed valves for systems with difficult fluid containment requirements.

### Features

- 316 stainless steel Swagelok V series manifold bodies
- Swagelok B or U series bellows valves for general or severe service
  - Gasketed or welded body-to-bonnet seals
  - Cobalt-based alloy stem tips
- Pipe fitting, flange, and Swagelok tube fitting manifold end connections



### Technical Data

For component technical data, including materials of construction and dimensions, see the following Swagelok catalogs:

*Bellows-Sealed Valves—B Series*, MS-01-22

*Bellows-Sealed Valves—U Series*, MS-01-38

*Instrument Manifolds Systems—Instrument, Direct, and Remote-Mount Manifolds and Modular Systems*, MS-02-445.

### Testing

Every Swagelok bellows-sealed 3-valve manifold is factory vacuum tested with helium at room temperature to a maximum leak rate of  $4 \times 10^{-9}$  std cm<sup>3</sup>/s at the seat, envelope, and all seals.

### Cleaning and Packaging

Every Swagelok bellows-sealed 3-valve manifold assembled with BG, BW, UG, or UW series valves is cleaned and packaged in accordance with *Swagelok Standard Cleaning and Packaging (SC-10)*, MS-06-62.

### Pressure-Temperature Ratings

Valve Series	Pressure Rating at 100°F (37°C) psig (bar)	Temperature Rating F (°C)	Stem Tip Material
BG	1000 (68.9)	600 (315)	Cobalt-based alloy
BW		900 (482)	
UG	2500 (172)	650 (343)	
UW		1200 (648)	

### Ordering Information

For a complete ordering number, insert the valve series into the basic ordering number.

Manifold End Connections		Basic Ordering Number
Type	Size	
Female NPT	1/2 in.	SS-V3_ _F8
Female Swagelok tube fitting		SS-V3_ _FS8
Flange	—	SS-V3_ _FL
Female NPT to flange	1/2 in.	SS-V3_ _F8-FL
Female Swagelok tube fitting to flange		SS-V3_ _FS8-FL

Examples: SS-V3**UG**F8  
SS-V3**BW**FL

⚠ To increase service life, ensure proper valve performance, and prevent leakage, apply only as much torque as is required to achieve positive shutoff.

**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.**

**Caution: Do not mix or interchange parts with those of other manufacturers.**

**Warranty Information**

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit [swagelok.com](http://swagelok.com) or contact your authorized Swagelok representative.