

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 4×10^{-9} std cm³/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 or contact your authorized Swagelok representative.