

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.

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.