



The Swagelok Photovoltaic Process Specification(SC-06)



Finally, a specification that meets the need of *your* industry.

The new Swagelok Photovoltaic Process Specification (SC-06) is the photovoltaic industry's first specification for processing stainless steel fluid system components. It's based on our work in the industry, and continues Swagelok's leadership in process-specific cleaning, which began in the 1980s with ultrahigh-purity components.

With Swagelok SC-06, you can now specify fluid system components with cleanliness and purity levels that closely match the true process requirements for solar cell production. Products processed with SC-06 bridge the gap between ultrahigh-purity standards and the more limited requirements of general industry products. Applied to gas handling components in your system, this specification is designed to help lower overall cost of system ownership. All with the peace of mind that comes with the quality and reliability of Swagelok® products. Using SC-06, our customers take one step closer to grid parity.



Swagelok
Value beyond the expected™

Supporting the industry with proven products.

You'll be glad to know that SC-06 is an available option for a wide range of high-purity and ultrahigh-purity Swagelok products. Each product category is summarized here and detailed in its own product catalog. Access these catalogs and learn more at www.swagelok.com. While on the site, you may want to select a Swagelok authorized sales and service center and contact an authorized Swagelok representative, who is ready to bring the global resources and values of Swagelok Company right to your door.



DP Series Springless Diaphragm Valves for High Performance

- 316L VIM-VAR stainless steel body
- VCR®, tube butt weld, and modular surface-mount end connections
- Manual or pneumatic actuation
- Temperature rating: -10 to 150°F (-23 to 65°C)

Low-Pressure Model

- Pressure rating: vacuum to 250 psig (17.2 bar)
- Flow coefficient (C_v): 0.27

High-Pressure Model

- Pressure rating: vacuum to 3045 psig (210 bar)
- Flow coefficient (C_v): 0.20

See Swagelok Catalog MS-01-165



HB Series High-Pressure, Pneumatically Actuated Bellows Valves

- Packless valves with all-metal seal to atmosphere
- Working pressures up to 3500 psig (241 bar)
- Temperatures up to 400°F (204°C)
- VCR® face seal fitting, Swagelok® tube fitting, and weld end connections
- Flow coefficient (C_v): 0.30
- Full pressure rating in either flow direction for system versatility
- Easily purged to maintain clean operation

See Swagelok Catalog MS-01-76



BN Series Bellows-Sealed Valves

- Packless valves with all-metal seal to atmosphere
- Working pressures up to 500 psig (34.4 bar)
- Temperatures up to 200°F (93°C)
- 1/4 to 1/2 in. and 6 to 12 mm end connections
- Flow coefficients (C_v): 0.30 and 0.70

See Swagelok Catalog MS-01-94



B Series Bellows-Sealed Valves

- Working pressures up to 1000 psig (68.9 bar)
- Temperatures up to 900°F (482°C)
- 1/4, 3/8, 1/2, and 3/4 in.; 6, 10, and 12 mm end connections
- Brass, stainless steel, and alloy 400 materials

See Swagelok Catalog MS-01-22

Advancing the industry with tailored solutions.



Micro-Fit® Miniature Tube Butt Weld Fittings

- 1/8 to 3/4 in.
- 316, 316L, 316L VAR, and 316L VIM-VAR stainless steel materials
- Fittings for manual or automatic welding equipment

See Swagelok Catalog MS-01-149



CW Series All-Welded Check Valves

- All-welded design provides reliable containment of system fluid
- Forward flow starts at less than 2 psig (0.14 bar) pressure differential
- Valve closes with less than 2 psig (0.14 bar) back pressure
- 316L SS body offers enhanced material purity
- Choice of standard or high-purity wetted surface finishes

See Swagelok Catalog MS-02-89



VCR® Metal Gasket Face Seal Fittings

- Available in 1/8 to 3/4 in. sizes
- High-purity stainless steels
- The original design, the authentic VCR brand

See Swagelok Catalog MS-01-24



VCO® O-ring Face Seal Fittings

- 1/8 to 3/4 in. sizes
- 316 or 316L stainless steel
- Tube, NPT, SAE thread, and weld connections

See Swagelok Catalog MS-01-28

Since Swagelok's introduction of the VCR metal gasket face seal fitting in the 1960s, we have been a leader in component innovation and manufacturing excellence for the semiconductor industry. With local support from our sales and service centers, and engineering experts located around the globe, Swagelok helps customers enable next-generation processes. From standard to engineered-to-order products, our goal is to specify a solution that delivers an efficient, leak-tight fluid system.

Swagelok Offers You...



Unsurpassed service and support

Swagelok manufacturing, research, technical support, and distribution facilities support a global network of more than 200 authorized Swagelok sales and service centers in 57 countries. At your Swagelok authorized sales and service center, trained experts are ready to deliver product information and support.

Swagelok-trained experts at your service

Local customer expertise and extensive Swagelok training add up to the best trained, most responsive sales and service representatives in the fluid system industry. Have a question at your facility or jobsite? Need in-depth product training to simplify product selection? Need product assembly training or tools to speed up installation? Each member of your Swagelok authorized sales and service center team is uniquely equipped—and ready—to meet your product and service needs.