UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS MEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR NUNAVUT YUKON **NORTHWEST TERRITORIES** MANUFACTURERS NAME: Swagelok Company MANUFACTURERS ADDRESS: 29500 Solon Road, Solon, Ohio 44139 USA PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Attachment A) CATEGORY OF STITLES YOU EREGISTERED, OR ROLE ON ECATEGORY ONLY THE GETT THE NOT THE PERSON NAMED IN A Pipe fittings, including couplings, tees, elbows, Ys, plucs, entons, pipe caps, or reducers ASME B31.1 for B Flanges: all flanges C Valves: all line valves unlisted components. D Expension joints, flexible connections, and hose essembles: all types E Strainers, filters, separators, and steem trape F Measuring devices, including pressure gauges, level gauges, sight glasses, tovels, or ASME B31,3 for unlisted components G Cartified capacity-rated pressure relief devices acceptable as primary over pressure protection on bollers, pressure vessets, piping and fusible page H Pressure retaining components that do not full into one of the above categories N Nuclear components: Class 1 □ Class 2 □ Class 3 □, (Meeting AECB or ASME requirements) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONSTRUCTION FORCED III WILDED III WINOUGHT)Q DIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL MERS TO BE REGISTERED. ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents DECLARATION: Joe! Feldman Swagelok Company nee note in employed by and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by BSI as being suitable for that purpose and I make this soleron. as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath. Signature of Declarer: solon, ohio USETHIS SPACE Jamle L Ristau O F F I C I A L Resident Portage County Commissioner of Oaths Notary Public, State of Oblo mul or Notary Public: (sign) My Commission Expires: 03/08/2019

Declared before me at This 57th day of December

(Affix Official seal to the right)

This spece for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of ecceptages

CRN: 0C21140.5

1214 FIDE:

1. All fillings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and

responsibility for the quality of the end product.

4. Quality control programs shall be resubmitted for validation et e modmum interval of five (6) years.

ONE OC21140.5Y DATE 03/29/2019 PREPARANCE PRANCE



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Category C: Swagelok U Series Bellows Valves

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Attachment B: Scope of CRN Registration for Swagelok U Series Bellows-Sealed Valves (Category C)

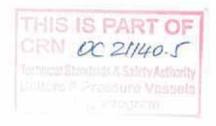
This document represents the scope of Swagelok's U Series Bellows-Sealed Valves covered by this submission for CRN approval. These valves were designed and evaluated in accordance with ASME B31.1:2016 for unlisted components and B31.3:2016 for unlisted components.

Table 1 – Summary Table

Product Description or Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Rated Pressure			The Year of the Control of the Contr
				At 100°F	Maximum Temperature		Design Code of
				UG & UW	UG1	UW ²	Construction
4U	Body, Bonnet, Bonnet nut	316 SS (ASTM A479)	Tube Fitting 1/4",6mm Tube Socket Weld 1/4" Butt Weld 3/8"	2500 psig	2500 psig @ 650°F	250 psig @ 1200°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Female VCR 1/4"	2500 psig	2500 psig @ 650°F	480 psig @ 1000°F	
6U	Body, Bonnet, Bonnet nut	316 SS (ASTM A479)	Tube Fitting 3/8",10mm Tube Socket Weld 3/8" Butt Weld 1/2"	2500 psig	2500 psig @ 650°F	250 psig @ 1200°F	
			Female VCR 1/2"	2500 psig	2500 psig @ 650°F	480 psig @ 1000°F	
8U	Body, Bonnet, Bonnet nut	316 SS (ASTM A479)	Tube Fitting 1/2", 12mm Tube Socket Weld 1/2" Butt Weld 3/4"	2500 psig	2500 psig @ 650°F	250 psig @ 1200°F	
			Female VCR 1/2"	2500 psig	2500 psig @ 650°F	480 psig @ 1000°F	
12U	Body, Bonnet, Bonnet nut	316 SS (ASTM A479)	Tube Socket Weld 3/4" Pipe Butt Weld 3/4" Tube Butt Weld 1"	2500 psig	2500 psig @ 650°F	250 psig @ 1200° F	

^{1 -} U-Series with a gasket bonnet seal

² - U-Series with a welded bonnet seal



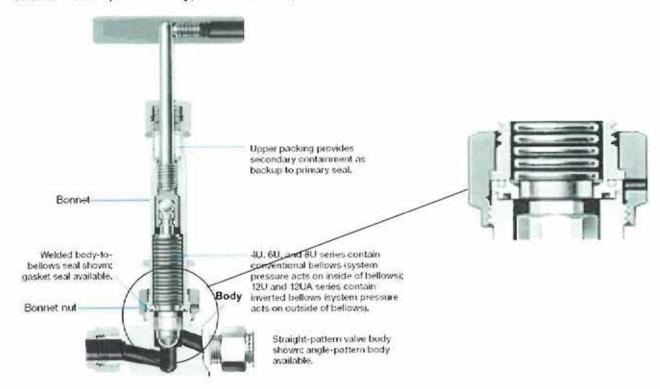


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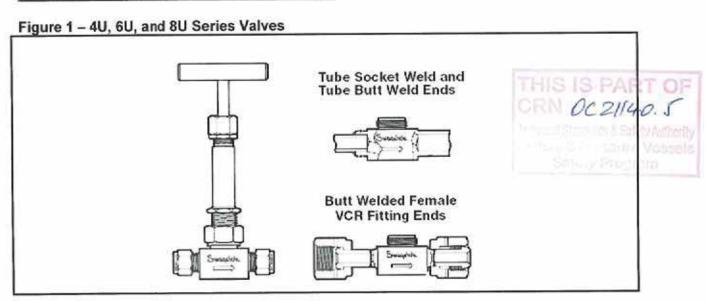
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Figure 1 - Pressure Retaining Components (typical 4U, 6U, or 8U hand operated valve)

Although the 12U Series Valve has a different internal design, all U Series Valves have the same configuration for pressure retaining components as shown bellow. The pressure retaining shell is made up of the body, the bonnet nut, and the bonnet as noted.



Bellows-Sealed, U Series Valve Configurations



Swagelok

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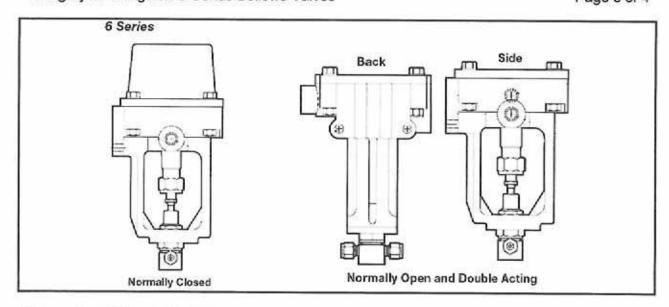
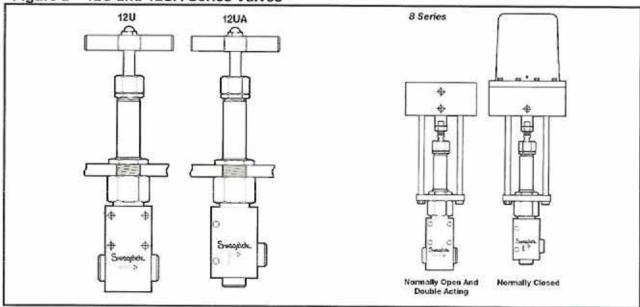
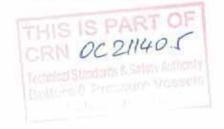


Figure 2 - 12U and 12UA Series Valves





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Product Options:

The U Series valve stem tips and gaskets listed below affect pressure and/or temperature ratings shown in the above Summary Table, but in all cases the ratings are less than those shown below:

Stem Tips

- 316 SS (regulating)
- Cobalt-based alloy (spherical)
- PCTFE/D1430 (cylindrical)
- Polyimide (conical)

Gaskets

- PTFE-coated 316 SS
- Silver-plated 316 SS

Additional options and non-pressure boundary alterations that do not affect pressuretemperature ratings may be made available within the scope of this registration. Examples of these would include, but not be limited to, handle options, indicator switches, actuators, etc.

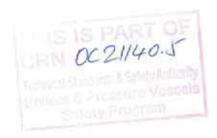
Quality System

The Swagelok Company quality system complies with the requirements of ISO 9001:2015. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The Sealed-Bellows, U Series Valves are made at a Swagelok Company location in Solon, Ohio.

References

The product catalog does not represent the full scope of the registration but rather details some of the most common options.

Bellows-Sealed Valves, U Series Catalog – MS-01-38 Rev J



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Attachment A. Swagelok Manufacturing Locations

This document lists the Swagelok locations where end item or component level manufacturing activities take place.

Swagelok Company	Swagelok Company (Falon 1)			
29500 Solon Road	348 Bishop Road			
Solon, Ohio 44139	Highland Heights, Ohio 44143			
USA	USA			
Swagelok Company (Highland)	Swagelok Company (Falon 2)			
318 Bishop Road	358 Bishop Road			
Highland Heights, Ohio 44143	Highland Heights, Ohio 44143			
USA	USA			
Swagelok Company (OFC)	Swagelok Company (HPF)			
29495 F.A. Lennon Drive	6050 Cochran Road			
Solon, Ohio 44139	Solon, Ohio 44139			
USA	USA			
Swagelok Company (Atlantic)	Swagelok Company (Snow Metal)			
26651 Curtiss Wright Parkway	6060 Cochran Road			
Willoughby Hills, Ohio 44092	Solon, Ohio 44139			
USA	USA			
Swagelok Company (Micro) 26653 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139			
Swagelok Hose Services Company (SHSC)	Swagelok Company (Strongsville)			
29900 Solon Industrial Parkway	15400 Foltz Road			
Solon, Ohio 44139	Strongsville, Ohio 44119			
Swagelok (China) Fluid System Technologies Ltd.	Swagelok Limited			
Changshu Export Process Zone	Ballafletcher Road			
Changshu Economic Development Zone	Tromode			
Changshu, Jiangshu	IM4 4RA			
215513 China	Isle of Man			

