

REGISTRATION OF A PRESSURE FITTING DESIGN

January 23, 2025

TSSA
345 Carlingview Dr.
Toronto, ON
Canada
M9W 6N9

Attention: Cecylia Garbacz

File Number: 102144

Re: Manufacturer: Swagelok
Item: Swagelok 40G Series Valves
Catalog or Drawing: Attachment B: Scope for Swagelok 40G Series Ball Valves
(August 15, 2024)

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

OC6054.53

Expiry Date: 2034-12-04

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,



Athan Syrgiannis, P.Eng.

Codes and Standards Compliance

Remarks:

CRN renewal. CRN issuance based upon registration by another province. Conditional upon compliance with the notes on the TSSA registration.

A valid quality control program must be maintained at the production facilities for the fitting registration to remain valid until the expiry date.

See 'Attachment A' for list of Swagelok manufacturing locations.

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Swagelok Company	
Manufacturers Address: 29500 Solon Road, Solon, Ohio 44139	
Plant Locations: 29500 Solon Road, Solon, Ohio 44139 USA (See Attachment A)	
<p align="center">Category of Fittings to be registered. Circle one Category only</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p>F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>H Pressure retaining components that do not fall into one of the above categories</p> <p>N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> , (Meeting CNSC or ASME requirements)</p>	<p align="center">Title of the Standard of Construction</p> <p>ASME B31.1 for Unlisted Components</p> <p>ASME B31.3 for Unlisted Components</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</p> <p align="center" style="font-size: 2em;"><i>Swagelok</i></p>	<p align="center">Type of Construction</p> <p>Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input checked="" type="checkbox"/></p> <p>Cast <input type="checkbox"/> Other _____</p> <p>Describe other: _____</p>
<p>List of supporting documentation and identification of the actual items to be registered:</p> <p>ISO 9001: 2015 Certificate, Attachment A, Attachment B, Catalog Information, and other support documents</p>	

Declaration:

I James Nordholt (see note 3) employed by Swagelok Company 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 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 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: *James Nordholt*

Declared before me at SOLON, STATE OF OHIO

This 19 day of SEPT AD 2024

Commissioner of Oaths

Or Notary Public: (sign) *James Oep*

(Affix Official seal to the right)



JEFFREY C. TRUMBULL
Notary Public
Recorded in Lake County
Certificate # 2020-RE-813693
My Commission Expires
April 15, 2025

<p>This space for Regulatory Authority use.</p> <p>This registration must be revalidated after ten (10) years from the date of acceptance.</p>															
<p>CRN: _____</p> <p>FID#: _____</p> <p>Notes:</p> <ol style="list-style-type: none"> All Fittings shall be registered in the name of the Manufacturer. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product. Quality Control programs shall be resubmitted for validation. <p>11/2016</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2"> </td> </tr> <tr> <td>Registration No. _____</td> <td>0C6054.53</td> </tr> <tr> <td>File No. _____</td> <td>102144</td> </tr> <tr> <td align="center" colspan="2"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; display: inline-block;">Registered</div> </td> </tr> <tr> <td>Date: _____</td> <td>January 23, 2025</td> </tr> <tr> <td>Expiry Date: _____</td> <td>December 4, 2034</td> </tr> <tr> <td align="center" colspan="2"> <p style="font-size: 0.8em;">Codes & Standards Compliance Office</p> </td> </tr> </table>			Registration No. _____	0C6054.53	File No. _____	102144	<div style="border: 1px solid black; border-radius: 5px; padding: 2px; display: inline-block;">Registered</div>		Date: _____	January 23, 2025	Expiry Date: _____	December 4, 2034	<p style="font-size: 0.8em;">Codes & Standards Compliance Office</p>	
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Attachment B: Scope for Swagelok 40G Series Ball Valves (Category C)

This document represents the scope of the Swagelok 40G Series (41G/42G and 43G) Ball Valves covered by this submission for CRN approval. These valves were designed and evaluated in accordance with ASME B31.1-2022 for unlisted components and ASME B31.3-2022 for unlisted components.

Summary Table

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections, Sizes	Maximum Rated Pressure (psig)		Design Code of Construction
				At -40 to 100°F	At max temperature	
41G	Body	316 SS (ASTM A479/A276)	Tube Fitting 1/16", 1/8", 3MM	2500	2500 @ 300°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
42G	Body	316 SS (ASTM A479/A276)	Tube Fitting 1/4", 6MM Female NPT 1/8" VCO Fitting 1/4" Male VCR Fitting 1/4"	2500	2500 @ 300°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
43G	Body	316 SS (ASTM A479/A276)	Tube Fitting 1/4", 3/8", 1/2", 6MM, 8MM Female NPT 1/8", 1/4" Female ISO 1/4" Male NPT 1/4" Male NPT/Tube Fitting 1/4" Male VCR Fitting 1/4"	3000	2500 @ 300°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)



Product Illustration



Product Options:

Some of the product options listed below affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are less than those shown in the Summary Table. All the following options are within the scope of this registration:

Modified PTFE seat material
UHMWPE seat material

Additional options that do not affect the scope of the pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include:

Straight or Angle-Pattern bodies
Body Vent Ports
Handle Locking Brackets
Latch Lock Handles
Stem Extensions
Pneumatic and Electric Actuators
SC-11 Cleaning



Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2015. The Swagelok Company maintains BSI Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate.

References

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

- Swagelok One-Piece Instrumentation Ball Valves MS-02-331, RevO

Attachment A. Swagelok Manufacturing Locations

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

Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 USA
Swagelok Precision Machining Services 1924 East 337th Street Eastlake, OH 44095 USA	Swagelok (China) Fluid System Technologies Ltd. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Strongsville) 15400 Foltz Road Strongsville, Ohio 44119
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139
Swagelok Company (Micro) 26653 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Hose Services Company (SHSC) 29900 Solon Industrial Parkway Solon, Ohio 44139
Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man
Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Valley City) 5370 Wegman Drive Valley City, Ohio 44280 USA

