

FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Swagelok Company</u>	
MANUFACTURERS ADDRESS: <u>29500 Solon Road, Solon, Ohio 44139 USA</u>	
PLANT LOCATIONS: <u>Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Attachment A)</u>	
<p>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 B Flanges: all flanges <input checked="" type="radio"/> C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fuelble plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)</p>	<p>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>ASME B31.1 for unlisted components, ASME B31.3 for unlisted components</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <p style="text-align: center; font-size: 2em;"><i>Swagelok</i></p>	<p>TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DESCRIBE OTHER: <u>Bar</u></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, Joel Feldman, Vice President, Engineering (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 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 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: *Joel Feldman* 10/18/2021 | 8:19 AM EDT

Declared before me at Unable to get a notary

USE THIS SPACE FOR THE
OFFICIAL SEAL

This AD day of signature or seal due to

Commissioner of Oaths
or Notary Public: (sign) COVID-19 situation

(Affix Official seal to the right)

<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: <u>OC23691.5</u></p> <p>FID#: <u>1214</u></p>	<p>Newfoundland Labrador Service NL</p> <p>Registered <u>OC23691-50</u> Date <u>27 JAN 2021</u> Engineering and Inspection Services Registered by <u>S. Agden</u></p>
<p>Notes:</p> <ol style="list-style-type: none"> 1. All fittings 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 at a maximum interval of five (5) years. 	
<p>UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS</p>	



Attachment B: Scope of CRN for Swagelok BS6 and LRS4 Regulators (Category C)

This document represents the scope of bolted / threaded-body RHPS Series, BS6 and LRS4 Series Pressure Regulators covered by this submission for CRN approval. These spring-loaded regulators have been evaluated in accordance with ASME B31.1-2020 and B31.3-2020 for unlisted components.

Summary Table

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections, Sizes	Maximum Rated Pressure				Design Code of Construction
				At Ambient temperature		At maximum temperature		
				Inlet	Outlet	Inlet	Outlet	
BS6	Body	316L SS UNS 31603 (ASTM A479)	Female NPT, 3/4" in.					ASME B31.1/ ASME B31.3 (Unlisted Components)
			ASME/ANSI B16.5 Flange (600#, 900#, 1500#, 2500#)	1015 psi (70 bar)	203 psi (14 bar)	1015 psi (70 bar)	203 psi (14 bar)	
			ASME/ANSI B16.5 Flange (300#)	600 psi (41 bar)	203 psi (14 bar)	600 psi (41 bar)	203 psi (14 bar)	
			ASME/ANSI B16.5 Flange (150#)	230 psi (16 bar)	203 psi (14 bar)	230 psi (16 bar)	203 psi (14 bar)	
LRS4	Body	316L SS UNS 31603 (ASTM A479)	Female NPT, 1/2 in.	507 psi (35 bar)	290 psi (20 bar)	507 psi (35 bar)	290 psi (20 bar)	

Product Illustration



BS6 Series Regulator



LRS4 series Regulator



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 of the following options are within the scope of this registration:

Seal Materials

Fluorocarbon FKM
Nitrile
EPDM
FFKM
Low temperature Nitrile

Diaphragm Materials

Fluorocarbon FKM
Nitrile
EPDM
FFKM
Low temperature Nitrile
PTFE
316L SS

Quality System

The Swagelok Company quality system complies with the requirements of 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.

- RHPS Regulators Series Catalog MS-02-430, Rev K

THIS IS PART OF CRN
0C23691.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Attachment A. Swagelok Manufacturing Locations

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

THIS IS PART OF CRN
0C23691.5
Technical Standards and Safety Authority
FALON 1 and Pressure Vessels Safety Program

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