

TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO ON M9W 6N9

**Date:** February 3, 2022  
**Account #:** 35231  
**Journal #:** 79615

**Attn:** TSSA

**Re: Application for Design Registration**

The design, as detailed in your, 0C23691.5 - SWAGELOK COMPANY, for a Fitting is accepted for registration as follows:

**Registered To:** SWAGELOK COMPANY                      **CRN:** 0C23691.51

**Drawing #:** Scope of Registration

**Drawing Revision:** N/A

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

**Reviewer's Notes:**

Scope: Swagelok BS6 and LRS4 Regulators. See the attachment A and B.

As required by CSA B51 4.2.1, this registration expires on 05-Jan-2032. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in TSSA CRN# 0C23691.5 registration shall apply to BC registration.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

Emilia Tam

emilia.tam@technicalsaftybc.ca  
Design Administration

**cc:**



Technical Standards and Safety Authority  
345 Carlingview Drive  
Toronto, Ontario M9W 6N9  
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

Swagelok

### STATUTORY DECLARATION Registration of Fittings

I, Joel Feldman, Vice President of Engineering  
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Swagelok Company  
(Name of Manufacturer)

Located at 29500 Solon Road, Solon, Ohio 44139 USA (440) 248-4600 (440) 349-5970  
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the *Technical Standards and Safety Act*, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.1 for unlisted components, and ASME B31.3 for unlisted components

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, BSI

The items covered by this declaration, for which I seek registration, are category C. Valves type fittings. In support of this application, the following information and/or test data are attached as follows:  
ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents

(drawings, calculations, test reports, etc.)

Declared before me at \_\_\_\_\_ in the \_\_\_\_\_ of \_\_\_\_\_

the \_\_\_\_\_ day of \_\_\_\_\_ AD 20\_\_\_\_\_.

Commissioner for Oaths:

**Unable to get a notary signature or seal due to COVID-19 situation**  
(Printed name)

(Signature)

DocuSigned by:

10/18/2021 | 8:19 AM E

C87CBBFFD3F14B7  
(Signature of Declarer)

#### FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the *Technical Standards and Safety Act*, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category C

CRN: \_\_\_\_\_

Registered by: \_\_\_\_\_

Dated: \_\_\_\_\_



This Document has been digitally signed and approved. The stamp size has been optimized for 11 x 17 documents

NOTE: This registration expires on: **JANUARY 5, 2032**

Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety Program

**REGISTERED**

C.R.N.: 0C23691.5

Signed:

Date: January 6, 2022.

\*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

## 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  
Falons and Pressure Vessels Safety  
Program

Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falons 1) 348 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Falons 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