

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

**Date:** May 14, 2020  
**Account #:** 35231  
**Journal #:** 75718

**Attn:** CECYLIA GARBACZ

**Re:** Application for Design Registration

The design, as detailed in your, CRN#0A22318.5, for a Fitting is accepted for registration as follows:

**Registered To:** SWAGELOK COMPANY                      **CRN:** 0A22318.51

**Drawing #:** Scope of Registration

**Drawing Revision:** N/A

**Conditions Of Registration:**

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.

Scope of Registration: MEDIUM-AND-HIGH PRESSURE FITTINGS, Attachment A and B

**Reviewer's Notes:**

As required by CSA B51 4.2.1, this registration expires on 06-Apr-2030. 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# 0A22318.5 registration shall apply to BC registration.

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

Janina Mihailescu

janina.mihailescu@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 A. Fittings 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 Solon in the state of Ohio  
 the 18<sup>th</sup> day of March AD 2020.

Commissioner for Oaths:

Brenda Hammel  
(Printed name)

Brenda Hammel  
(Signature)

[Signature]  
(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 A

CRN: 0A22318.5

Registered by: [Signature]

Dated: APRIL 6, 2020

Technical Standards and Safety Authority      Boilers and Pressure Vessels Safety Program

**REGISTERED**

C.R.N.: 0A22318.5

Signed: [Signature]

Date: April 6, 2020.

**NOTE: This registration expires on: APRIL 6, 2030**

Swagelok high pressure fittings

See the attached scope of registration- attachment A and B.

*\*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 for Swagelok High-Pressure Fittings  
 (Category A)**

This document represents the scope of the Swagelok High-Pressure Fittings covered by this submission for CRN approval. The High-Pressure Fittings were designed and evaluated in accordance with ASME B31.3-2018 Chapter IX for unlisted components.

**Summary Table**

| Product Series / Tubing Size (inch) | Material (Standard) | Description  | Form   | Pressure Rating up to 200°F | Pressure Rating at 450°F |
|-------------------------------------|---------------------|--|--|-----------------------------|--------------------------|
| 440 (1/4")                          | 316 SS (ASTM A479)  | High Pressure Tube Fitting   | Unions, reducing unions, bulkhead unions, union elbows, union tees, caps, plugs, nuts, | 45,000 psi                  | 33,400 psi               |
| 640 (3/8")                          |                     |  |  |                             |                          |
| 940 (9/16")                         |                     |  |  |                             |                          |
| 44M (1/4")                          |                     | High Pressure Male Thread Connector                                  | Unions   |                             |                          |
| 64M (3/8")                          |                     |  |  |                             |                          |
| 94M (9/16")                         |                     |  |  |                             |                          |
| 440 to 44M, 64M (1/4")              |                     | High Pressure Tube Fitting to High Pressure Male Threaded Connectors | Straight Adapter   |                             |                          |
| 640 to 44M, 64M (3/8")              |                     |  |  |                             |                          |
| 940 to 64M, 94M (9/16")             |                     |  |  |                             |                          |
| 44M to 441 (1/4")                   |                     | High Pressure Male Thread to Coned Tube Stub                         | Straight Adapter   |                             |                          |
| 64M to 641 (3/8")                   |                     |  |  |                             |                          |
| 94M to 941 (9/16")                  |                     |  |  |                             |                          |
| 440 to 641 (1/4")                   |                     | High Pressure Tube Fitting to Coned Tube Stub Reducer                | Straight Adapter   |                             |                          |
| 640 to 941 (3/8")                   |                     |  |  |                             |                          |
| 940 to 641 (9/16")                  |                     |  |  |                             |                          |
| 441 (1/4")                          |                     | Port Connector   | Union  |                             |                          |
| 641 (3/8")                          |                     |  |  |                             |                          |
| 941 (9/16")                         |                     |  |  |                             |                          |

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 Program



**Product Illustration**



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**Typical Product Characteristics:**

Additional options that do not affect pressure and/or temperature ratings may be made available within the scope of this approval. Examples of these would include the following:

- Special marking
- Special cleaning
- Wire drills

**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**

Fitting Products - Sno-Trik Series section of Swagelok catalog "Medium- and High-Pressure Fittings, Tubing, Valves, and Accessories" MS-02-472 Rev. L

The above product catalog section does not represent the full scope of registration, but rather details some of the most common options for 316 SS high pressure fittings.

## Attachment A. Swagelok Manufacturing Locations

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

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Program

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