

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

**Date:** June 3, 2019  
**Account #:** 35231  
**Journal #:** 73408

**Attn:** TANYA FRANCIS

**Re:** Application for Design Registration

The design, as detailed in your, CRN: 0E21343.5, for a Fitting is accepted for registration as follows:

**Registered To:** SWAGELOK COMPANY                      **CRN:** 0E21343.51

**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:**

As required by CSA B51 4.2.1, this registration expires on 29-Apr-2029. 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# 0E21343.5 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 see BCSA supplement for categ 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 14th day of February AD 2019.

Commissioner for Oaths:  
Jamie L Ristau  
(Printed name)  
Jamie L Ristau  
(Signature)

Jamie L. Ristau  
 Resident Portage County  
 Notary Public, State of Ohio  
 My Commission Expires: 02A 2025

Joel C. Feldman  
(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 E.

CRN: OE21343.5  
 Registered by: [Signature]  
 Dated: April 29, 2019

Technical Standards and Safety Authority  
 Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: OE21343.5  
 Signed: [Signature]  
 Date: April 29, 2019


NOTE: This registration expires on: April 29, 2029

\*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request. See attachment A and B for scope of registration.

## Attachment B: Scope of CRN Registration for Swagelok F, TF, FW and FC Series Filters (Category E)

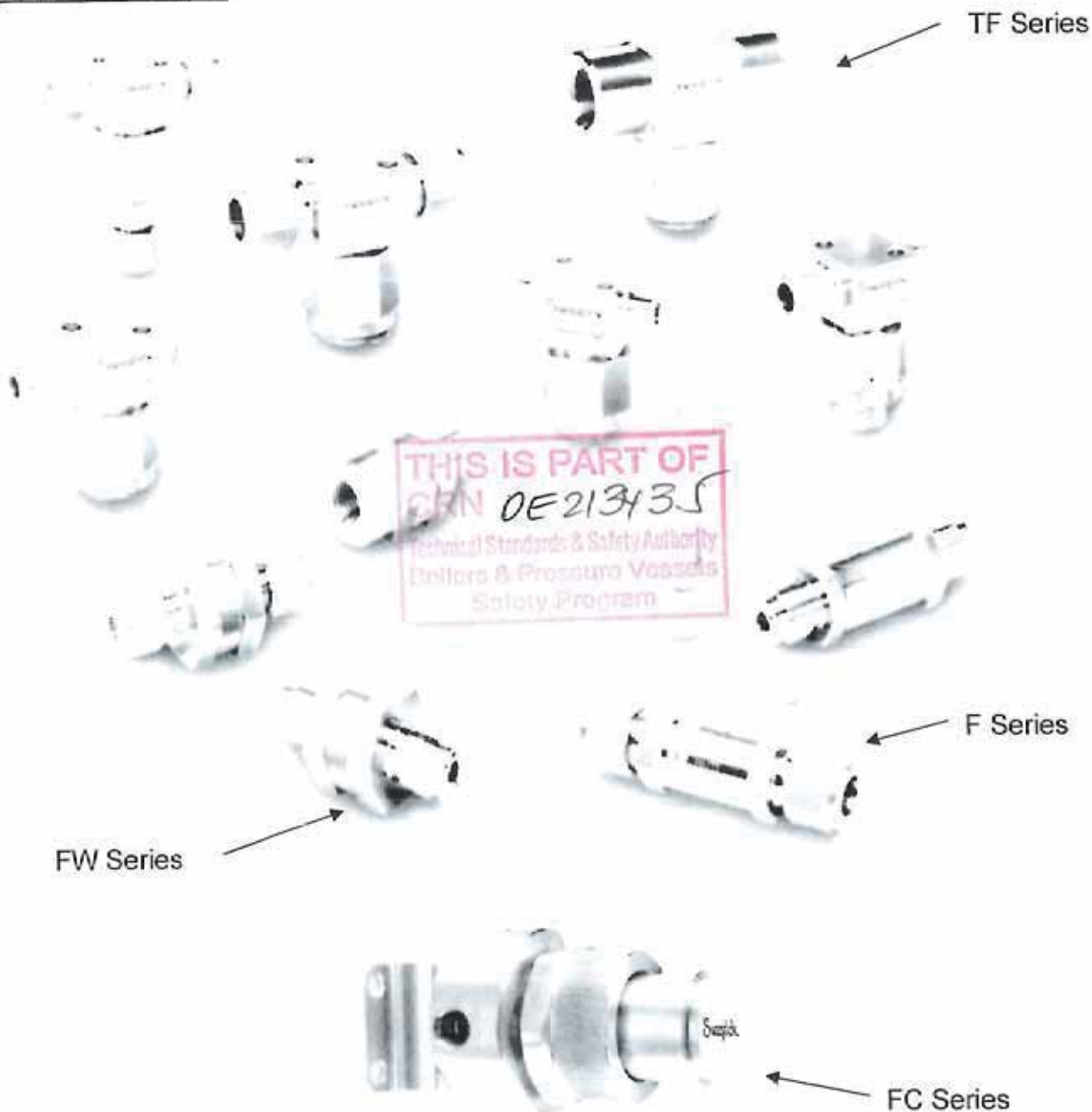
This document represents the scope of the F, TF, FW and FC Series Filters covered by this submission for CRN approval. These filters were designed and evaluated in accordance with ASME B31.1-2016 for unlisted components and ASME B31.3-2016 for unlisted components.

### Summary Table

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Rated Pressure (psig)		Design Code of Construction
				@ 100°F	@ Max Temp.	
2F, 4F	Body	316 SS (ASTM A479)	Tube Fitting 1/8", 1/4", 3mm, 6mm Female NPT 1/8", 1/4" Male NPT 1/4" Male VCR 1/4"	3000	1640 @ 900°F	 ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
6F, 8F	Body	316 SS (ASTM A479)	Tube Fitting 3/8", 1/2"	2500	1360 @ 900°F	
2F, 4F, 6F, 8F	Body	C36000 Brass (ASTM B16)	Tube Fitting 1/8", 1/4", 3/8", 1/2", 6mm, 8mm, 10mm, 12mm Female NPT 1/8", 1/4" Male NPT 1/4", 3/8", 1/2"	1000	680 @ 300°F	
2TF, 4TF, 6TF, 8TF	Body	316 SS (ASTM A479)	Tube Fitting 1/8", 1/4", 3/8", 1/2", 6mm, 8mm, 10mm, 12mm Female NPT 1/8", 1/4" Male NPT 1/4", 3/8", 1/2" Tube Socket Weld 1/4", 3/8"	6000	3280 @ 900°F	
2TF, 4TF, 6TF, 8TF	Body	C36000 Brass (ASTM B16)	Tube Fitting 1/8", 1/4", 6mm, 8mm, 10mm Female NPT 1/8", 1/4" Male NPT 1/4", 3/8", 1/2"	2000	1470 @ 300°F	
			Tube Fitting 3/8"	2000	1430 @ 300°F	
			Tube Fitting 1/2"	2000	1365 @ 300°F	
			Tube Fitting 12mm	2000	1320 @ 300°F	
4TF, 8TF	Body	Alloy 400 N04400 (ASTM B164)	Tube Fitting 1/8", 1/4", 3/8", 6mm, 8mm, 10mm Female NPT 1/8", 1/4" Male NPT 1/4", 3/8", 1/2"	5000	4160 @ 300°F	
			Tube Fitting 1/2"	4400	3652 @ 300°F	
			Tube Fitting 12MM	4208	3493 @ 300°F	
FW	Body	316 SS (ASTM A479)	Tube Fitting 1/4", 6mm Female NPT 1/8", 1/4" Male NPT 1/4" Male VCR 1/4"	6000	3280 @ 900°F	
FC	Body	316 SS (ASTM A479)	Tube Fitting, Female 1/4", 6mm Female NPT 1/8", 1/4" Female ISO 1/4"	1000	760 @ 400°F	



## Product Illustration



## Typical Product Characteristics

Some product options could 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. An example of this would be optional body seal materials.

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. An example of this would be optional filter elements.

All of the above options, those that affect pressure and/or temperature ratings and those that do not, are within the scope of this approval.

## 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.

## References

The below product catalogs do not represent the full scope of registration, but rather details some of the most common options:

- F, TF, FW Series Filter Catalog MS-01-092, Rev L
- FC Series Filter Catalog MS-02-082, R6



**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 (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

