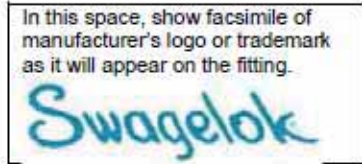


STATUTORY DECLARATION Registration of Fittings

I, Joel Feldman, Vice President, Engineering of Swagelok Company



located at 29500 Solon Road, Solon, Ohio 44139 USA (see Attachment A)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- comply with the requirements of ARPM Hose Handbook which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with...

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, BSI as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category D Type Fittings

In support of this application, the following information, calculations and/or test data are attached:

ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents

DECLARED before me at in the of this day of (Month) (Year)

Unable to get a notary signature or seal due to COVID-19 situation - September 17, 2020

Handwritten signature of Joel C. Feldman

For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category

Registration Number: ABSA SAFETY CODES ACT - PROVINCE OF ALBERTA ACCEPTED: 0D22735.52 See acceptance letter for conditions of registration. (Signature of the Administrator/SCO)

Date Registered: Expiry Date:

The information you provide is necessary only for the... programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline.





**Attachment B: Scope of Registration for Crimped Swagelok FC series PTFE Hose Assemblies (Category D)**

This document represents the scope of the Swagelok Coreflex FC series hose and crimped assemblies covered by this submission for CRN approval. These products have been evaluated in accordance with the Association for Rubber Products Manufacturers (ARPM) Hose Handbook.

**Summary Table**

FC series Hose Size	Maximum Pressure (psig)			Pressure Retaining Material	End Connections and Sizes	Design Code of Construction
	At Minimum Temp. (-65°F)	Room temperature (0°-100°F)	At Maximum Temp. (450°F)			
1/4"	455	800	160	<b>Core</b> Carbon Black filled virgin PTFE  <b>Braid</b> Fiberglass Braid Reinforcement  <b>End Connections</b> 316 SS  <b>Crimp on Collar</b> 304 SS	Swagelok Tube Fitting <b>[SL, SM]</b> 1/8" – 2" (3-50mm)	Association for Rubber Products Manufacturers (ARPM) Hose Handbook
3/8"	480	650	170		Male & Female NPT Tapered Pipe Fitting <b>[PM, PF]</b> 1/8" – 2" Male & Female ISO/BSP Tapered (ISO 7) Pipe Threads <b>[MT, FT]</b> 1/4" – 1"	
1/2"	450	450	225		Male 37° JIC & Female 37° JIC with female swivel nut <b>[AN, AS]</b> 1/4" – 2" Tube Butt Welds <b>[TB]</b> 1/2" – 1"	
3/4"	325	325	160		Male & Female VCO O-ring Face seal Fitting <b>[VF, VM]</b> 1/8" - 2" Male & Female VCR Metal Gasket Face seal Fitting <b>[RF, RM]</b> 1/8" – 2" Female ISO/BSP Parallel Threads (ISO 228) <b>[FS]</b> 1/4" – 1"	

2020-05212

**ABSA**

SAFETY CODES ACT - PROVINCE OF ALBERTA

**ACCEPTED: 0D22735.52**

**See acceptance letter for conditions of registration.**

Date: 2020-11-11 By: *Zana Radisavljevic*

ZANA RADISAVLJEVIC, P. Tech. (Eng.)

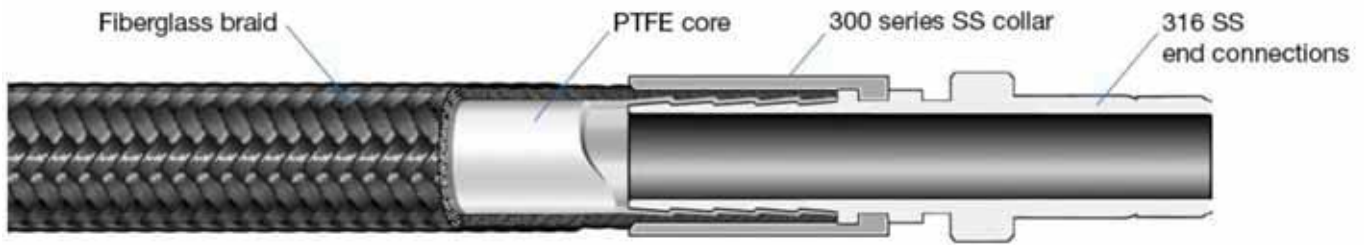
This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

## **Product Description**

Swagelok's FC series hose is a carbon black filled virgin PTFE liner with fiberglass braid reinforcement. All FC series hoses undergo production testing in accordance with ASTM D380 "Test Methods for Rubber Hose" (version current to hose production date).

## **Configurations**

All end connection inserts are crimped onto the hose using crimp collars.



## **Product Options:**

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

### **Cover Options**

- Armor guard - Interlocking, flexible 302 stainless steel.
- Fire jacket - Woven fiberglass coated with specially compounded aerospace-grade silicone rubber
- Spiral guard - Helical HDPE plastic

### **Tag and Marking Options**

- Mat tag - Polyester tag with customer-specified text
- Lanyard tag - Stainless steel tag with customer-specified text

### **End Connection Seals or Sealants Options**

- VCO – O-rings
- Pipe Thread ends – thread sealant

## **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 the registration but rather details some of the most common options. Hose Assemblies, Bulk Hose, and End Connections Product Catalog MS-01-180.

## 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

November 11, 2020

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON M9W 6N9

The design submission, tracking number 2020-05212, originally received on October 28, 2020 was surveyed and accepted for registration as follows:

**CRN :** 0D22735.52 **Accepted on:** November 11, 2020  
**Reg Type:** NEW DESIGN **Expiry Date:** October 14, 2030  
**Drawing No. :** CRIMPED SWAGELOK FC SERIES PTFE - ATTACHMENT A & B  
**Fitting type:** HOSES 1/4" TO 3/4" (LIQUID, AIR OR GAS SERVICE)  
Design registered in the name of : SWAGELOK COMPANY

**The registration is conditional on your compliance with the following notes:**

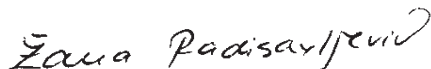
*As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is other engineering analysis.*

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3369 or fax (780) 437-7787 or e-mail Radisavljevic@absa.ca.

Sincerely,



RADISAVLJEVIC, ZANA, P. Tech. (Eng.)  
DOP Cert. No. D00003136