

UNIFORM STATUTORY DECLARATION 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 align="center">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 C Valves: all line valves <input checked="" type="radio"/> 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 fusible 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 align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>Rubber Products Manufacturers (ARPM) Hose Handbook</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <p align="center" style="font-size: 2em;"><i>Swagelok</i></p>	<p align="center">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>PTFE Core</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 C. Feldman*

Declared before me at Unable to get a notary signature THIS SPACE FOR THE

This _____ day of September ~~AD~~ seal due to COVID-19 situation OFFICIAL SEAL

Commissioner of Oaths or Notary Public: (sign) - September 17, 2020

(Affix Official seal to the right)

This space for Regulatory Authority use
This registration must be revalidated after ten (10) years from the date of registration.

CRN: 0D22735.5

FID#: 1214

Crimped Swagelok FC series PTFE hose assemblies. 1/4" to 3/4" hose sizes

Notes:

- All fittings shall be registered in the name of the Manufacturer.
- Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
- The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
- Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

CRN expires Oct.14th, 2030 - DG

New Brunswick
Nouveau Brunswick

**DEPT OF JUSTICE PUBLIC SAFETY
BOILER & PRESSURE VESSEL ACT**

REGISTRATION ONLY

CRN 0D22735.57

Ben Adams
CHIEF BOILER INSPECTOR

DATE 11/5/20

- BLRs PVs
- FITTINGS NUCLEAR COMPONENTS



THIS IS PART OF CRN
 0D22735.5
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety Program

Canadian Registration Number Submittal
 Category D Crimped Swagelok FC series PTFE Hose

September 1, 2020
 Page 1 of 2

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

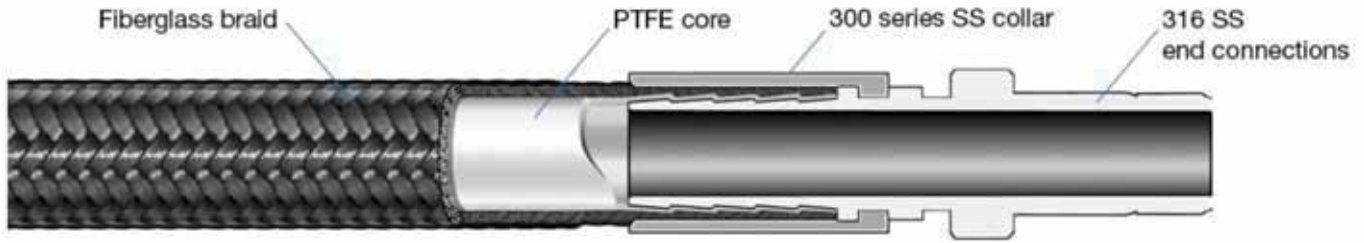
FC series Hose Size	Maximum Pressure (psig)			Pressure Retaining Material	End Connections and Sizes	Design Code of Construction
	At Minimum Temp. (-65°F)	Room temperature (0°-100°F)	At Maximum Temp. (450°F)			
1/4"	455	800	160	Core Carbon Black filled virgin PTFE Braid Fiberglass Braid Reinforcement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

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