

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



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|---------------------|--|---|---|---|
| Joel Feldman, Vi | ce President of Engineering | n, e.g. President, Plant Manager, (| Chief Engineer | |
| Swagalak Comp | 10 | i, e.g. rresident, Flant Manager, V | oner Engineer) | |
| of Swagelok Comp | dily | (Name of Manufacturer) | | |
| 20500 | Onles David Calas Obje 44420 | | (140) 240 4000 | (440) 240 5070 |
| Located at 29500 | Solon Road, Solon, Ohio 44139 (Plant Address) | USA | (440) 248-4600 (Telephone No.) | (440) 349-5970 (Fax No.) |
| | (Flank Address) | | (тевриме тис.) | (raxivo) |
| and Pressure | leclare that the fittings listed hereu Vessels Regulation, comply with for Rubber Products Manufacture | all of the requirements of | | s and Safety Act, Boilers |
| ASSOCIATION | A TOTAL BUT HER STORY THE SECTION OF | cognized North American Standa | | |
| which specifies | the dimensions, materials of constru | | | g the fittings and service; |
| pressure/temp | ered by the provisions of a recogn as suppo perature ratings and the basis for so the manufacture of these fittings is | rted by the attached data wh uch ratings, the marking of t | nich identifies the <mark>d</mark> imension the fitting for identification | ns, material of construction, and service. |
| | which has been verified by the followi | | on mocary are requirem | 71 |
| | this declaration, for which I seek regis | | е | type fittings. In support of |
| | owing information and/or test data are | | | |
| ISO 9001:2015 Cer | tificate, Attachment A, Attachmer | nt B, Catalog Information a | nd other Support Docun | nents |
| - | (draw | ings, calculations, test reports, etc | :) | 15 |
| Declared before me | e at | in the | | of |
| the | day ofA | D 20 | | |
| Commissioner for | Oaths: | | | |
| Unable to | get a notary signa | ture or | 5 741 | |
| | COVID-19 situa | | hole (| 1 |
| Septembe | tynlityre) 2020 | | (Signature of L | Declarer) |
| | FC | R OFFICE USE ONLY | | |
| Technical Standards | wledge and belief, the application m s and Safety Act, Boilers and Press nd is accepted for registration in Cat | sure Vessels Regulation, and | Standards | Boilers and Pressure Vessels Safety Program |
| CRN: | 0D22735.5 | This Do been di | current has | TERED |
| Registered by: | 11 | TSSA signed The star been op | mp size has thimized for documents | 5 |
| Dated: | OCTOBER 14, 2020 | | Date: October | |
| NOTE: This registr | OCTOR | BER 14, 2030 | attachment A and | |



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

THIS IS PART OF CRN 0D22735.5

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

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



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

OD22735.5
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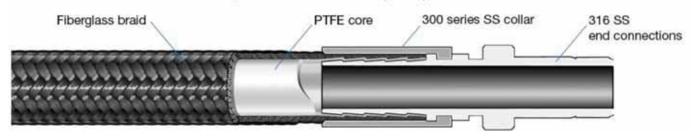
September 1, 2020 Page 2 of 2

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.

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Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
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Attachment A. Swagelok Manufacturing Locations

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

| Swagelok Company | Swagelok Company (Falon 1) | |
|---|--|--|
| 29500 Solon Road | 348 Bishop Road | |
| Solon, Ohio 44139 | Highland Heights, Ohio 44143 | |
| USA | USA | |
| Swagelok Company (Highland) | Swagelok Company (Falon 2) | |
| 318 Bishop Road | 358 Bishop Road | |
| Highland Heights, Ohio 44143 | Highland Heights, Ohio 44143 | |
| USA | USA | |
| Swagelok Company (OFC) | Swagelok Company (HPF) | |
| 29495 F.A. Lennon Drive | 6050 Cochran Road | |
| Solon, Ohio 44139 | Solon, Ohio 44139 | |
| USA | USA | |
| Swagelok Company (Atlantic) | Swagelok Company (Snow Metal) | |
| 26651 Curtiss Wright Parkway | 6060 Cochran Road | |
| Willoughby Hills, Ohio 44092 | Solon, Ohio 44139 | |
| USA | 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) | Swagelok Company (Strongsville) | |
| 29900 Solon Industrial Parkway | 15400 Foltz Road | |
| Solon, Ohio 44139 | 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 | |