UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

PRINCE EDWARD ISLAND

NOVA SCOTTA

NEW BRUNSWICK

| MANUFACTURERS NAME: | YUKON | PRINCE EDWARD ISLAND NORTHWEST TERRITORIES | NEWFOUNDLAND AND LABRADOR |
|--|--|---|--|
| MANUAL OVERS LAWE. | wagelok Company | | |
| MANUFACTURERS ADDRESS | | olon, Ohio 44139 USA | |
| PLANT LOCATIONS: Headou | | oad, Solon, Ohio 44139 USA (See Att | |
| CATEGORY OF FITT | NGS TO BE REGISTERED | CIRCLE ONE CATEGORY ONLY | ACTIMENT A) TITLE OF THE STANDARD OF CONSTRUCTION |
| A Pipe fittings, including coupling Flanges: all flanges C Valves: all time valves Discretion joints, flaxible cont E Strainers, filters, separators, at F Measuring devices, including pressure transmitters G Certified capacity-tated press boilers, pressure vessels, pip H Pressure retaining component N Nuclear components: Class 1 | gs, tees, elbows, Ys, plugs, se nections, and hose assemblie and steam traps pressure gauges, level gauge ure relief devices acceptable ing and fusible plugs is that do not fall into one of the Class 2 Class 3 Cl. | unions, pipe caps, or reducers is: all types is, sight glasses, levels, or as primary over pressure protection on the above categories (Meeting AECB or ASME requirements) | Rubber Products Manufacturers (ARPM) Hose Handbook |
| SHOW MANUFACTURERS NAM | gelok | AS IT WILL APPEAR ON THE PRODUCT | PTFE Core |
| DECLARATION: | | | |
| Joel Feldman, Vice President, Engire esponsibility for the quality of my knowledge represents the | croduct for which registrat | by Swagelok Company and being declare that the information contained ion is sought. The dimensions, material | d in this form is true and to the bast o |
| Joel Feldman, Vice President, Engiresponsibility for the quality of my knowledge represents the semperature ratings, and identification of these fittings is or in part and has been verified seclaration conscientiously belonger of Declarer: Declared before me at Unit in the day of Section of Oatha | product do scient or which registrat fication markings are in active guisted by a Quality Control of the BSI leving it to be true, and known able to get a number of the BSI leving it to be true, and the BSI leving it t | ing declare that the information contains it ion is sought. The dimensions, material coordance with the herein named stands colorol Program which extends to each place as being suitable for the nowing that it is of the same force and effectively signature of the same force and effective signature of the same force and effective | d in this form is true and to the best of s of construction, pressure ards. I further declare that the arit where fabrication occurs in whole at purpose and I make this solemn fact as if made under cath. |
| Joel Feldman, Voe President, Engiresponsibility for the quality of my knowledge represents the temperature ratings, and identificant of these fittings is or in part and has been verified declaration conscientiously belongiature of Declarer: Declared before me at This day of | product do scient or which registrat fication markings are in according to the scient of the scient | ing declare that the information contains it ion is sought. The dimensions, material coordance with the herein named stands colorol Program which extends to each place as being suitable for the nowing that it is of the same force and effectively signature of the same force and effective signature of the same force and effective | d in this form is true and to the best of construction, pressure and s. I further declare that the ant where fabrication occurs in whole at purpose and I make this solemn fect as if made under oath. SPACE FOR THE |



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

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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 | <u>Core</u> Carbon Black filled virgin | 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 | 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

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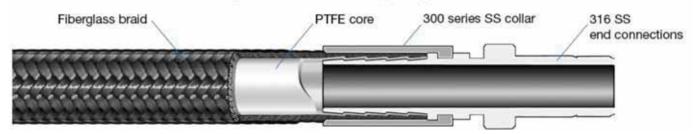
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Product Description

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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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 |