NEW BRUNSWICK NUNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAME	Swelleick Company		
MANUFACTURERS ADDR		d. Solon, Ohio 44139 USA	
PLANT LOCATIONS: He	adouarters: 29500 Solon	Road, Solon, Ohio 44139 USA (See	Attachment A)
CATEGORY OF	FITTINGS TO BE REGISTER	ED. CIRCLE ONE CATEGORY ONLY	Title of the standard or construction
B Flanges: all flanges  ( Valves: all line valves  ( Expansion joints, flexible  E Strainers, filters, separat  F Measuring devices, inclu- pressure transmitters  ( Certified capacity-rated significant  bollers, pressure vessels  H Pressure retaining comp	connections, and hose essentions, and steam traps ding pressure gauges, level granted and pressure relief devices accepts, ploing and fusible plugs onents that do not fall into one	auges, sight glasses, levels, or able as primary over pressure protection on tof the above categories	Association of Rubber Products Manufacturers (ARPM) Hose Handbook
N Nuclear components: Cl	ass 1 Class 2 Class 3	D, (Meeting AECB or ASME requirements)  OGO AS IT WILL APPEAR ON THE PROP	
Sw	agelok		FORGED WELDED D WADDIGHT D CAST O STHER M DESCRIBE OTHER Carbon black- filled virgin PTFE core
LIST OF SUPPORTING DO	CUMENTATION AND IDENT	TIFICATION OF THE ACTUAL ITEMS TO B	E REGISTERED:
	ste, Attachment A. Attachm	ent B. Catalog Information and other Su	ipport Documents
DECLARATION: Joel Feldman. Vice President. esponsibility for the quality throwledge represents enanufacture of these fither in part and has been ve eclaration conscientious	Engineering the role of employ by of the end product do so the product for which regis dentification markings are to dentification markings are to dentification by a Quality	ed by Swagelok Company and stration is sought. The dimensions, malin accordance with the herein named stry Control Program which extends to ear	d being the person having full authority ar alned in this form is true and to the best of erials of construction, pressure andards. I further declare that the thip sant where fabrication occurs in whole
DECLARATION: Joel Feldman, Vice President, asponsibility for the quality throwledge represents amperature ratings, and is anufacture of these fittin r in part and has been ve action conscientiousl ignature of Declarer:	Engineering the role of employ by of the end product do so the product for which regis dentification markings are to dentification markings are to dentification by a Quality	led by Swagelok Company and lemnly declare that the information constration is sought. The dimensions, malin accordance with the herein named sty Control Program which extends the left as being suitable for the state of the st	d being the person having full authority ar alned in this form is true and to the best of erials of construction, pressure andards. I further declare that the thip sant where fabrication occurs in whole
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Registered by

UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACKAND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS

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

CRN expires Aug.31, 2030 - DG



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

THIS IS PART OF CRN
0D22658.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

June 22, 2020 Page 1 of 2

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

This document represents the scope of the Swagelok Coreflex (NC 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**

NC	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
3/8"	1250	1250	140	<u>Core</u> Convoluted Bore Carbon Black- filled (PTFE)	Swagelok Tube Fitting [SL SM]  1/8" – 2" (3-50mm)  Male & Female NPT Tapered Pipe Fitting [PM PF]  1/8" – 2"  Male and Female ISO/BSP Tapered (ISO 7) Pipe Threads  [MT FT]	
1/2"	720	750	130	Covered By Ceramic Insulating Wrap  Braid Aramid Fiber Braid Reinforcement	1/4" – 1"  Male 37° JIC & Female 37° JIC with female swivel nut [AN, AS]  1/4" – 2"  Tube Butt Welds [TB]  1/2" – 1"  Female & Male VCO O-ring Face seal Fitting [VF, VM]	Association for Rubber Products Manufacturers (ARPM) Hose Handbook
3/4"	375	375	80	Connections 316 SS  Crimp on Collar 300 series SS	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**

NC series is standard Swagelok virgin Convoluted PTFE-lined hose with a Nomex insulating wrap and fiber braid reinforcement. All NC series hoses undergo production testing in accordance with ASTM D380 "Test Methods for Rubber Hose" (version current to hose production date).



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

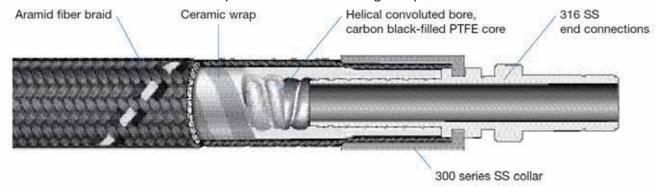
#### THIS IS PART OF CRN 0D22658.5

**Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program** 

June 22, 2020 Page 2 of 2

#### **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.

# THIS IS PART OF CRN 0D22658.5 Technical Standards and Safety Authority Boilers and Pressure Vessels Safety

### **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