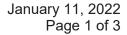


PRINCE EDWARD ISLAND

NEWFOUNDLAND AND LARRADOR

MANUFACTURERS NAME: Swagelok Company		
MANUFACTURERS ADORESS: 29500 Solon Road, Solon, Ohio	44100 1101	
PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon, CMC CATEGORY OF FITTINGS TO BE REGISTERED, CIPCLE ON	04139 USA	
CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ON	E CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unlons, pipe of B Flanges: all flanges C Valves: all flanges C Valves: all line valves Dexpansion joints, flaxible connections, and hose assemblies: all types E Strainers, filters, separators, and steam trape F Measuring devices, including pressure gauges, level gauges, sight glass pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary or bollers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above cat N Nuclear components: Class 1 □ Class 2 □ Class 3 □, (Meeting AEC	ses, levels, or ver pressure protection on egories CB or ASME requirements)	Rubber Products Manufacturers (ARPM) Hose Handbook, ASME B31.1 for unlisted components, ASME B31.3 for unlisted components  TYPE OF CONSTRUCTION FORGED OF WELDED OF WROUGHT OF CAST OTHER TO CESCULAR OTHER
SWAGELOK LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF T		316SS bar for hose connector fittings, PTFE core for hose
DECLARATION:    Jeel Feldman, Vice President, Engineering(1000 meto 3) employed by Swap responsibility for the quality of the end product do solemnly declare my knowledge represents the product for which registration is sough temperature ratings, and identification markings are in accordance v manufacture of these fittings is regulated by a Quality Control Progra or in part and has been verified by RSI declaration conscientiously believing it to be true, and knowing that	that the information contained t. The dimensions, materials with the herein named standar am which extends to each pla as being suitable for tha	of construction, pressure ds. I further deciare that the nt where fabrication occurs in whole t purpose and I make this solemn
Company of Control of	10:48 AM EST	od as il mede under dani.
Declared before me at Unable to get a notary	USETHIS	SPACE FOR THE
This day of signature or seal due to Commissioner of Oaths or Notary Public: (sign)	0 5 5 1	CIAL SEAL
This space for Regu This registration must be revalidated after to		acceptance.
CRN: <u>OD22750.</u> 5A661 FID#: 1214	ACCEPTE PROVINCE OF PRINCE EI COMMUNITIES, LAND &	DWARD ISLAND
Notes:  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.	DATE: JUNE 24  INSPECTIONSERVICE BOILER/PRESSURE VE	es section





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

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

This document represents the scope of the Swagelok Coreflex ST 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**

Table 1a – ST series hose with fittings other than KC/KE (Kwik Clamp™) fittings						
ST	ST Maximum Pressure (psig)					
series Hose Size	At Minimum Temp. (-65°F)	Room temperature (0°-100°F)	At Maximum Temp. (400°F)	Pressure Retaining Material	End Connections and Sizes	Design Code of Construction
1/8"	3000	3000	2550			
1/4"	3500	3500	3250	Core Smooth Bore PTFE Braid	Swagelok Tube Fitting [SL SM]  1/8" – 2" (3 – 50mm)  Male & Female NPT Tapered Pipe Fitting [PM, PF] 1/8" – 2"	
3/8"	3000	3000	2350	Synthetic Fiber Braid & 304 SS Braid Reinforcement	Male & Female ISO/BSP Tapered (ISO 7) Pipe Threads [MT, FT] 1/4" – 1"  Male 37° JIC & Female 37° JIC with female swivel nut [AN, AS] 1/4" – 2"	Association for Rubber Products Manufacturers
1/2	1800	1800	1800	Cover Silicone cover  End Connections 316 SS	Tube Butt Welds [TB] 1/2" – 1"  Male & Female VCO O-ring Face seal Fitting [VF, VM] 1/8" - 2"	(ARPM) Hose Handbook
3/4	1250	1250	1250	Crimp on Collar 300 series 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"	
1"	1000	1000	1000		THIS IS PART OF CRN 0D22750.5ADD1 Technical Standards and Safety Author	

Boilers and Pressure Vessels Safety Program



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

#### **Summary Table (continued)**

Table 1b – ST series hose with KC/KE (Kwik Clamp™) fittings*				
ST series Hose Size	Maximum Pressure (psig) At -65° to 250°F*	Pressure Retaining Material	End Connections and Sizes	Design Code of Construction
1/4"	1500			Association for
3/8"	1500	Same as above	Sanitary <b>[KC KE]</b> 1/2"	Rubber
1/2"	1500			Products  Manufacturers
3/8"	1500			(ARPM) Hose
1/2"	1500	Same as above	Sanitary [KC KE] 3/4"	Handbook
3/4"	1250			For KC/KE
1/2"	225			fitting:
3/4"	225	Same as above	Sanitary [KC KE] 1"	ASME B31.3 (Unlisted
1"	225			Components)
1/2"	400			ASME B31.1
3/4"	400	Same as above	Sanitary [KC KE] 1-1/2"	(Unlisted
1"	400			Components)

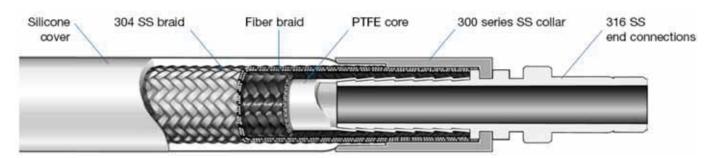
<sup>\*</sup> Temperature and pressure ratings limited by sanitary Kwik Clamp™ gaskets and clamps

#### **Product Description**

The Swagelok ST series hose is a virgin PTFE-lined hose with a fiber braid reinforcement and 304 stainless steel reinforcement with silicone cover. The exceptions are the 1/8-inch nominal size hose does not have the fiber braid and the 1 inch nominal size is constructed with two stainless steel braids and no fiber braid. All ST 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.



# THIS IS PART OF CRN 0D22750.5ADD1 Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program



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

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#### **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

0D22750.5ADD1

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Program

### **Attachment A. Swagelok Manufacturing Locations**

This document lists the Swagelok locations where end item or component level manufacturing

activities take place THIS IS PART OF CRN 0D22750.5ADD1

	Technical Standards and Safety Authority		
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	