



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

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



STATUTORY DECLARATION Registration of Fittings

I, Joel Feldman, Vice President of Engineering
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Swagelok Company
(Name of Manufacturer)

Located at 29500 Solon Road, Solon, Ohio 44139 USA (440) 248-4600 (440) 349-5970
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ARPM Hose Handbook, ASME B31.1 for unlisted components, and ASME B31.3 for unlisted components
(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, BSI

The items covered by this declaration, for which I seek registration, are category D. Hose type fittings. In support of this application, the following information and/or test data are attached as follows:

ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents
(drawings, calculations, test reports, etc.)

Declared before me at _____ in the _____ of _____
the _____ day of _____ AD 20_____.

Commissioner for Oaths:

Unable to get a notary signature or seal due to COVID-19 situation
(Printed name)

(Signature)

DocuSigned by:

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(Signature of Declarer)

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FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category D.

CRN: _____

Registered by: _____

Dated: _____



This Document has been digitally signed and approved.
The stamp size has been optimized for 11 x 17 documents

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0D22750.5ADD1

Signed:

Date: May 19, 2022.

NOTE: This registration expires on: **OCTOBER 16, 2030**

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.



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 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. (400°F)			
1/8"	3000	3000	2550	Core Smooth Bore PTFE Braid Synthetic Fiber Braid & 304 SS Braid Reinforcement Cover Silicone cover End Connections 316 SS Crimp on Collar 300 series SS	Swagelok Tube Fitting [SL SM] 1/8" – 2" (3 – 50mm)	Association for Rubber Products Manufacturers (ARPM) Hose Handbook
1/4"	3500	3500	3250		Male & Female NPT Tapered Pipe Fitting [PM, PF] 1/8" – 2"	
3/8"	3000	3000	2350		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"	
1/2"	1800	1800	1800		Tube Butt Welds [TB] 1/2" – 1" Male & Female VCO O-ring Face seal Fitting [VF, VM] 1/8" - 2"	
3/4"	1250	1250	1250		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			

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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	Same as above	Sanitary [KC KE] 1/2"	Association for Rubber Products Manufacturers (ARPM) Hose Handbook
3/8"	1500			
1/2"	1500			
3/8"	1500	Same as above	Sanitary [KC KE] 3/4"	For KC/KE fitting: ASME B31.3 (Unlisted Components)
1/2"	1500			
3/4"	1250			
1/2"	225	Same as above	Sanitary [KC KE] 1"	ASME B31.1 (Unlisted Components)
3/4"	225			
1"	225			
1/2"	400	Same as above	Sanitary [KC KE] 1-1/2"	ASME B31.1 (Unlisted Components)
3/4"	400			
1"	400			

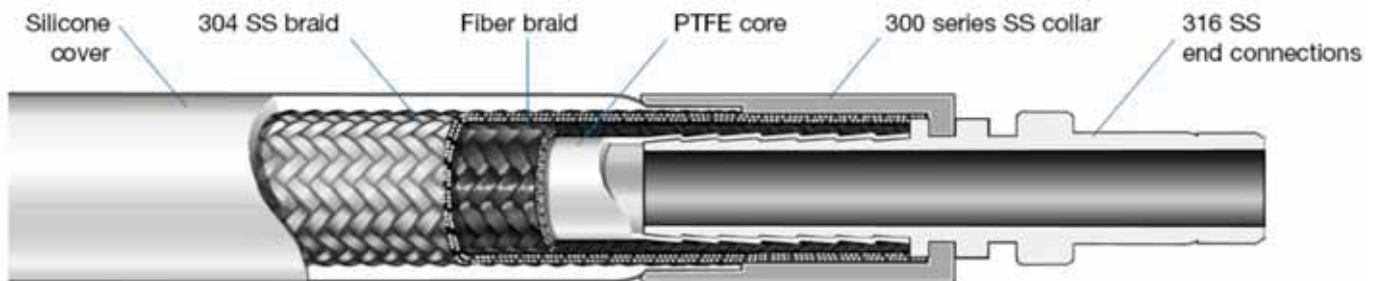
* Temperature and pressure ratings limited by sanitary Kwik Clamp™ gaskets and clamps

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.



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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.

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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.

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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