NEW BRUNSWICK NUNAVUT NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Swagelok Com	pany		
	n Road, Solon, Ohio 44139 USA		
PLANT LOCATIONS: Headquarters: 29500	Solon Road, Solon, Ohio 44139 USA (See At	tachment A)	
	GISTERED, CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANGARD OF CONSTRUCTION	
A Pipe fittings, including couplings, tees, elbows, B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hos E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, pressure transmitters C Certified capacity-rated pressure relief devices boilers, pressure vessels, piping and fusible pl	le assemblies: all types level gauges, sight glasses, levels, or acceptable as primary over pressure protection on ugs	Rubber Products Manufacturers (ARPM) Hose Handbook	
	Class 3 □, (Meeting AECB or ASME requirements)		
SHOW MANUFACTURERS NAME, TRADEMAR	K, OR LOGO AS IT WILL APPEAR ON THE PRODUCT		
Swagelo	K	PTFE Core	
LIST OF SUPPORTING DOCUMENTATION AND	DIDENTIFICATION OF THE ACTUAL ITEMS TO BE R	EGISTERED:	
my knowledge represents the product for whitemperature ratings, and identification markin manufacture of these fittings is regulated by a or in part and has been verified by <u>BSI</u> declaration conscientiously beliaving it to be	true, and knowing that it is of the same force and e	als of construction, pressure lards. I further declare that the plant where fabrication occurs in whole that purpose and I make this solemn	
Signature of Declarer:	2020 7:50 AM EDT		
Declared before me at <u>Unable to</u>	get a notary signature out is	S SPACE FOR THE	
This day of goal dire to	COVID-19 situation OFF	ICIAL SEAL	
Commissioner of Oaths or Notary Public: (sign)		Ď	
(Affix Official sea	The INCL	Nouveaus	
This registration mu	This space for Regulatory Authority use st be revalidated after ten (10) years from the date	inswick	
CRN: 0D22419.5 Add1	DEPT OF JU	ISTICE PUBLIC SAFETY RESSURE VESSELACT	
FID#:1214		STRATION ONLY	
Addition of Swaged T series PTFE he	ose assemblies.	22419,57Add1	
1. All fittings shall be registered in the name of the supported with two Streams and one copy of supporting documentation. 3. The declaration shall be made by the person responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted at a maximum interval of five (5) years. CRN expires May 14th, 2030.	atutory Declaration 1. having full authority and CHIEF B I for validation DATE	OILER INSPECTOR 2/18/20	
	and the second s] PVs	
	ØFITTINGS [NUCLEAR COMPONENTS	



Canadian Registration Number Submittal
Category D: Crimped and Swaged T Series PTFE Hose

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Attachment B: Scope of Registration for Crimped and Swaged Swagelok T-Series PTFE Hose Assemblies (Category D)

This document represents the scope of the Swagelok PTFE (TH and TC) hose and crimped/swaged 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

TH and	Maximur	n Pressi	ure (psig)			
TC Series Hose Size	At Minimum Temp. (-65°F)	At 65 to 100°F	At Maximum Temp. (450°F)	Pressure Retaining Material	End Connections and Sizes	Design Code of Construction
1/4"	2250	3000	2250	<u>Core</u> Smooth Bore Virgin PTFE [TH]	Swagelok Tube Fitting [SL SM TA TM] 1/8" – 1" (6-25mm)	
3/8"	2250	2500	1875	OR Smooth Bore Carbon-Lined	Male and Female NPT Tapered Pipe Fitting [PM PF] 1/4" – 1"	
1/2"	2000	2000	1500	PTFE [TC] Braid 304 SS Braid Reinforcement	Male 37° JIC and Female 37° JIC with female swivel nut [AN AS] 1/4" – 1/2"	Association for Rubber Products Manufacturers (ARPM) Hose
3/4"	1500	1500	1125	End Connections 316 SS Swage Collar	Male and Female ISO/BSP Tapered (ISO 7) Pipe Threads [MT FT] 1/8" – 1"	Handbook
1"	1000	1000	750	304 SS Crimp on Collar 316 SS	Male and Female VCR Metal Gasket Face Seal Fitting [VF VM] 1/4" – 1"	

Product Description

Swagelok's TH series hose is virgin PTFE-lined, 304 Stainless Steel braided hose. The TC series hose is carbon black filled PTFE-lined, 304 stainless steel braided hose. All TH and TC series hoses undergo production testing in accordance with ASTM D380 "Test Methods for Rubber Hose" (version current to hose production date).



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316 SS end

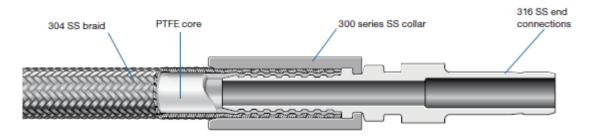
connections

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Configurations

Crimped assembly method:

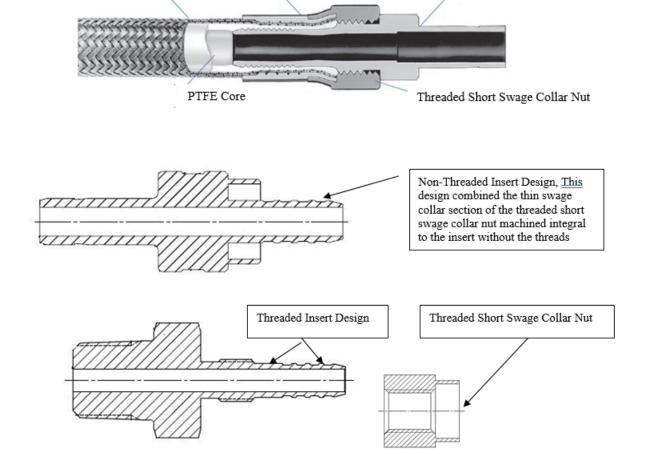
304 SS braid



Swaged assembly method – There are two ways the hose end connections are supplied: Threaded end connection insert or non-threaded end connection insert:

300 series SS

collar





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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:

- Polyolefin Cover over Spring-guard
- PVC tubing cover
- Silicone covered Fiber Glass Fire Jacket cover with SS clamps
- Spring guard under Silicone covered Fiber Glass Fire Jacket cover with SS clamps
- SS Tag, TFE Coated SS Lanyard, Aluminum Retaining clamp
- Stainless Steel Tag with TFE coated lanyard
- SS Tag, TFE Coated SS Lanyard, Aluminum Retaining clamp, and possibly pre-swaged
- Customer requested information listed on hose end connection non-critical surfaces
- Applicable material trace numbers marked on end connections.
- Pipe Threaded ends
- O-rings for VCO ends
- Proof Pressure Testing

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	