

12/4/2020

TSSA 345 Carlingview Drive TORONTO, ON M9W 6N9 CA

Dear Cecylia Garbacz

Re: Reciprocal CRN Registration in Manitoba

Your application indicates that a CRN has been received in another Canadian Jurisdiction, and therefore your CRN has been registered in Manitoba as follows:

File Number: 74-R1149 CRN: 0D22419.54

Scope: Swaged Swagelok T Series PTFE Hose Assemblies-attachment A and B

Manufacturer: SWAGELOK Expiry Date: 14/May/30

Please find attached invoice for registration.

As indicated by the Regulatory Reconciliation and Cooperation Table and the Reconciliation Agreement for the Canadian Registration Number (CRN) for Pressure Equipment, a CRN issued in any Canadian Jurisdiction will be accepted for use in Manitoba.

In accordance with Steam and Pressure Plants Regulation and CSA B51, it is the manufacturer's responsibility to file a Manufacturers Data Report, including partial data reports, with our office, prior to shipping pressure equipment to Manitoba.

Please contact me directly via email at Cheryl.Lashek@gov.mb.ca for any questions or concerns.

Cheryl Lashek, P.Eng Director, ITSM

Inspection and Technical Services
Office of the Fire Commissioner
508 - 401 York Avenue, Winnipeg Manitoba R3C 0P8
T (204) 945-3507 | F (204) 948-2309

DocuSign Envelope ID: 57FDBB0A-EFF5-4EE0-B7E2-EB84853E6DCC



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



SIAI	Registration of Fit						
Joel Feldman, Vice President of Engineering							
11/	on, e.g. President, Plant Manage	r, Chief Engineer)					
of Swagelok Company							
or	(Name of Manufacturer)		ij.				
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 <i>Technical Standards and Safety Act</i> , Boilers and Pressure Vessels Regulation, comply with all of the requirements of Association for Rubber Products Manufacturers (ARPM) Hose Handbook							
(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 recognishment and as supported pressure/temperature ratings and the basis for s	orted by the attached data	which identifies the dimensio	ns, material of construction,				
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 regis		ose	_ type fittings. In support of				
this application, the following information and/or test data ar			saturpo:				
ISO 9001:2015 Certificate, Attachment A, Attachme			nents				
(drawings, calculations, test reports, etc.)							
Declared before me at	in the		of				
the day of	ND 20						
Commissioner for Oaths:		B B 11					
		DocuSigned by:					
Unable to get a notary sign		111) /				
seal due to COVID-19 situa	tion	Hose !	Me				
(Signature)		-C8/CBBF Signature B	Declarer)				
To the best of my knowledge and belief, the application of Technical Standards and Safety Act, Boilers and Pres CSA Standard B51 and is accepted for registration in Ca	sure Vessels Regulation, a	the Standards	Boilers and Pressure Vessels Safety Program				
CRN: 0D22419.5ADD1	Thie	REG	ISTERED				
Registered by:	TSSA has b	oeen ally signed stamp size CRN: 0D224 Signed: 4	119.5ADD1				
Dated: NOVEMBER 19, 2020	optim x 17	peen	ember 19, 2020.				
NOTE: This registration expires on: MAY	14 2030						

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

SEE THE STAMPED ATTACHMENT A
AND B FOR SCOPE OF REGISTRATION



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

THIS IS PART OF CRN 0D22419.5ADD1 Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

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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	Core 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).



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

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0D22419.5ADD1
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316 SS end

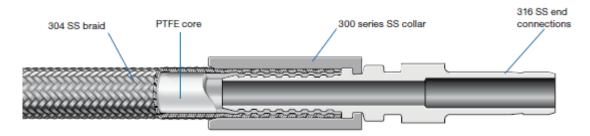
connections

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Configurations

Crimped assembly method:

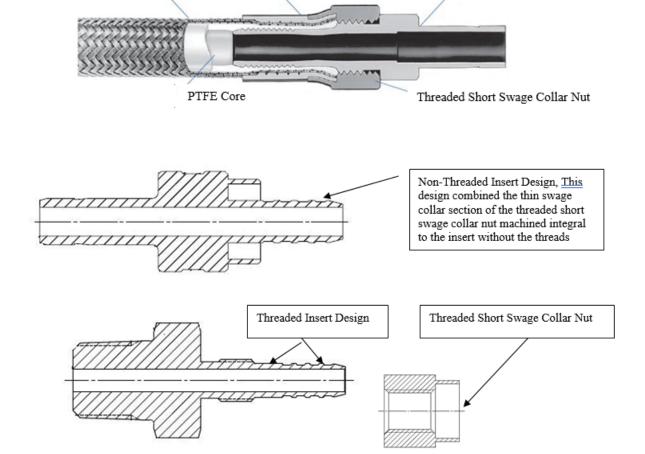
304 SS braid



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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Category D: Crimped and Swaged T 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:

- 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.

THIS IS PART OF CRN 0D22419.5ADD1

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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.

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