

11/25/2020

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-R1112CRN:0D22736.54Scope:Crimped Swagelok CT Series PTFE Hose assemblies- attachment A and BManufacturer:SWAGELOKExpiry Date:14/Oct/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 <u>Cheryl.Lashek@gov.mb.ca</u> 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



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

made

STATUTORY DECLARATION Registration of Fittings

	(Name and Position, e.g. President	Plant Manager, Chief En	gineer)	
of Swagelok (Company			
	(Name of Ma	nufacturer)		
ocated at	29500 Solon Road, Solon, Ohio 44139 USA	(4	440) 248-4600	(440) 349-5970
- 1997, 1997, 1997	(Plant Address)	(7	elephone No.)	(Fax No.)
and Pre	mnly declare that the fittings listed hereunder, which essure Vessels Regulation, comply with all of the re- ation for Rubber Products Manufacturers (ARPM) F	quirements of	chnical Standard	ls and Safety Act, Boild
which sp	(Title of recognized North pecifies the dimensions, materials of construction, pressur		identification markin	g the fittings and service;
	not covered by the provisions of a recognized North A as supported by the at e/temperature ratings and the basis for such ratings, t	tached data which ide	ntifies the dimensio	ns, material of constructi
further declare	e that the manufacture of these fittings is controlled by		eting the requirem	ents of ISO 9001:2015
	which has been verified by the following authority, E			A min filling as the second
	red by this declaration, for which I seek registration, are cat the following information and/or test data are attached as f			type fittings. In support
	15 Certificate, Attachment A, Attachment B, Catalog		er Support Docun	nents
	(drawings, calculation		••	
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*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request. PV 09553 (04/17) Service application Liquid, Air or Gas Service



Canadian Registration Number Submittal Category D Crimped Swagelok CT Series PTFE Hose September 1, 2020 Page 1 of 2

Attachment B: Scope of Registration for Crimped Swagelok CT Series PTFE Hose Assemblies (Category D)

This document represents the scope of the Swagelok Coreflex (CT 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

СТ			ure	Pressure		
Series Hose Size	At Minimum Temp.	Room temperature (0°-100°F)	At Maximum Temp.	Retaining Material	End Connections and Sizes	Design Code of Construction
1/2"	1500 psig @ -65°F	1500 psig	1500 psig @ 450°F		Swagelok Tube Fitting [SL SM] 1/8" – 2" (3-50mm)	
3/4"	1100 psig @ -65°F	1110 psig	900 psig @ 450°F	<u>Core</u> Helical Convoluted PTFE	Male & Female NPT Tapered Pipe Fitting [PM PF] 1/8" – 2" Female & Male VCO O-ring Face seal Fitting [VF, VM] 1/8" - 2"	
1"	750 psig @ -65°F	750 psig	490 psig @ 450°F	Braid 304 SS Braid Reinforcement <u>End</u> Connections	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 (ARPM) Hose Handbook
1 1/2"	675 psig @ -20°F	700 psig	330 psig @340°F	316 SS <u>Crimp on</u> <u>Collar</u> 300 series SS	Tube Butt Welds [TB] 1/2" – 1" Female & Male VCR Metal Gasket Face Seal [RF, RM] 1/8" – 2" Female ISO/BSP Parallel	
2"	525 psig @ -20°F	525 psig	485 psig @340°F		Threads (ISO 228) [FS] 1/4" – 1"	



Canadian Registration Number Submittal Category D Crimped Swagelok CT Series PTFE Hose

Product Description

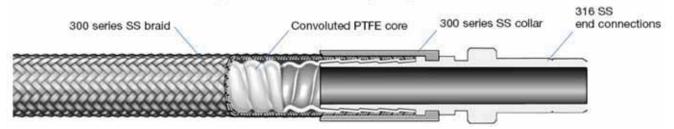
THIS IS PART OF CRN 0D22736.5 Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

September 1, 2020 Page 2 of 2

Swagelok's CT series hose is helical convoluted PTFE, 300 series stainless steel braided hose. All CT 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.



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
- Perma tag (JT only)- Polyester tag encapsulated in platinum-cured silicone with customerspecified 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.

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.	Swagelok Limited
Changshu Export Process Zone	Ballafletcher Road
Changshu Economic Development Zone	Tromode
Changshu, Jiangshu	IM4 4RA
215513 China	Isle of Man