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TECHNICAL STANDARDS & SAFETY AUTHORITY 345 CARLINGVIEW DRIVE TORONTO ON M9W 6N9

Date: October 13, 2020

Account #: 35231 **Journal #:** 76637

Attn: TSSA

Re: Application for Design Registration

The design, as detailed in your, 0D22655.5, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY CRN: 0D22655.51

Drawing #: ATTACHMENT A AND B

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on 31-Aug-2030. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in TSSA CRN# 0D22655.5 registration shall apply to BC registration.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

Janina Mihailescu

janina.mihailescu@technicalsafetybc.ca Design Administration

cc:

(PROD) 30400-20 GST #: 87391 2802 RT0001



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



	STA	ATUTORY Registrati	DECLAR ion of Fittings		
Joel Feldman, V	ice President of Engineering	1			
		Position, e.g. President, i	Plant Manager, Chief E	Engineer)	3
of Swagelok Comp	pany				
	C/8000#1.1	(Name of Manu	ufacturer)		:ন
located at 2950	0 Solon Road, Solon, Ohio	44139 USA		(440) 248-4600	(440) 349-5970
Loonica di	(Plant Address	5)		(Telephone No.)	(Fax No.)
and Pressure	declare that the fittings listed e Vessels Regulation, comp for Rubber Products Manuf	ly with all of the req	uirements of	echnical Standard	Is and Safety Act, Boilers
1.0000000000000000000000000000000000000		itle of recognized North A			=======================================
which specifie	s the dimensions, materials of o			s, identification markir	ng the fittings and service;
pressure/tem	perature ratings and the basi	supported by the atta s for such ratings, the	ached data which is e marking of the fi	dentifies the dimension tting for identification	ons, material of construction, and service.
	t the manufacture of these fitti			neeting the requirem	ents of ISD 9001:2015
	which has been verified by the				
	this declaration, for which I see		3300 V C C C C C C C C C C C C C C C C C C		type fittings. In support of
	ollowing information and/or test d prtificate, Attachment A, Atta			ther Support Docur	nents
	HALL HE STOLL GOLD, WAS ENVIRONMENT OF THE PLAN CONTRACTOR OF	(drawings, calculations,	Aller Tillion to California	ANTE SECRETARIA PROPERTY AND	PE TOPAGE
Declared before m	ne at		in the		of
the	day of	AD 20	e.		
	oget a notary si Printed name o COVID-19 si			el C.	711
		tuation.	- All	ec c.	seld-
August 10	(signat Oe2 ()			(Signature of	Declarer)
Technical Standard	owledge and belief, the applica Is and Safety Act, Boilers and and is accepted for registration	d Pressure Vessels R	rements of the	Technical Standards and Safety Authority	Boilers and Pressure Vessels Safety Program
ODN	0D22655.5			REGIS	IERED
CRN:	-//		This Document has been digitally signed	C.R.N.: 0D22655.5	i
Registered by:	M		The stamp size has been optimized for 11 x 17 documents	Signed LL	2020
Dated:	AUG 31, 2020		+62.25	Date: August 3	
	tration expires on: Al	JG 31, 2030		pe of this regis attachments	

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



Canadian Registration Number Submittal Category D Swagelok BT Series PTFE Hose

THIS IS PART OF CRN 0D22655.5 Technical Standards and Safety Authority Boilers and Pressure Vessels Safety

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Attachment B: Scope of Registration for Swagelok BT Series Hose Assemblies (Category D)

This document represents the scope of Swagelok BT series PTFE hose and 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

Product	Pressure	Nom.	Fred Commontions & Circo	Maximum Working Pressure (psig)		Design Code of
Series	Retaining Material	Hose Size (in)	End Connections & Sizes	At -65 to 100°F	@ Max. Temp.	Construction
BT Series Hose	Core Smooth Bore (PTFE) Braid 304 SS Braid Reinforcement End Connections 316 SS Crimp on Collar 304 SS	1/8	Tube Fitting [SL, SM] 1/8" – 2" (3mm – 50mm) Male & Female Pipe Threads, NPT [PM, PF] 1/8" – 1" Male & Female VCR Metal Gasket Face Seal Fittings [RM, RF] 1/8" – 3/4" Male & Female VCO O-Ring Face Seal Fittings [VF, VM] 1/4" - 1/2" Tube Butt Welds [TB] 1/8"-1" ISO/BSP Parallel Female Threads (ISO 228) [FS] 1/8" – 3/4" Male & Female ISO Tapered (ISO 7) [FT] 1/4" – 1/2" SAE 37° Male [AN] 1/4" – 3/8" SAE 37° (JIC) Female Swivel [AS] 1/8" – 5/8" Male Pipe Weld [MPW] 1/8" – 1/2" UN / UNF (SAE) [ST] 3/16" – 5/8"	3000	2900 @450°F	Association for Rubber Products Manufacturers (ARPM) Hose Handbook



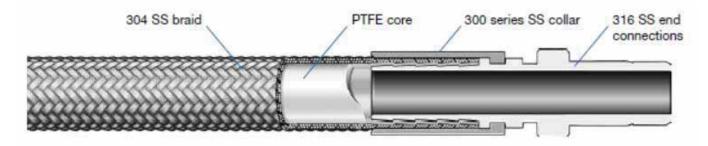
Canadian Registration Number Submittal Category D Swagelok BT Series PTFE Hose

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Program

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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 within the scope of this approval. Examples of these would include the following:

- Fire jacket Woven fiberglass coated with specially compounded aerospace-grade silicone rubber
- Mat tag Polyester tag with customer-specified text
- Lanyard tag Stainless steel tag with customer-specified text
- Thread sealant for tapered pipe thread ends

All the above options are within the scope of this approval.

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.

THIS IS PART OF CRN

0D22655.5

Technical Standards and Safety Authority

	Boilers and Pressure Vessels S				
Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 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				