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

Date: November 12, 2020

**Account #:** 35231 **Journal #:** 76782

Attn: TSSA

Re: Application for Design Registration

The design, as detailed in your, 0C22706.5, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY CRN: 0C22706.51

**Drawing #:** Scope of Registration **Drawing Revision:** N/A

### **Conditions Of Registration:**

Scope of Registration: Sno-Trik 410, 445, 645 and 945 Series- See the stamped 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 28-Sep-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# 0C22706.5 registration shall apply to BC registration.

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

**Emilia Tam** 

emilia.tam@technicalsafetybc.ca Design Administration

cc:

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



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



STA	ATUTORY DECL	ARATION	
	Registration of Fit	tings	
I, Joel Feldman, Vice President of Engineering	g		
	d Position, e.g. President, Plant Manager,	; Chief Engineer)	
of Swagelok Company			
The second of th	(Name of Manufacturer)		- 19
Located at 29500 Solon Road, Solon, Ohio	(440) 248-4600	(440) 349-5970	
(Plant Addres	16)	(Telephone No.)	(Fax No.)
✓ do solemnly declare that the fittings listed and Pressure Vessels Regulation, comp	oly with all of the requirements of	of	Is and Safety Act, Boilers
ASME B31.1 for unlisted components, a	Abdata Carrier and Carrier and Carrier and Carrier	50-71 #41000 C1110000	
(7 which specifies the dimensions, materials of	Title of recognized North American Stand construction, pressure/temperature		ng the fittings and service:
or are not covered by the provisions of a as pressure/temperature ratings and the basis	s supported by the attached data w	which identifies the dimension	ons, material of construction,
I further declare that the manufacture of these fitt	tings is controlled by a quality sys	stem meeting the requirem	ents of ISO 9001:2015
The items covered by this declaration, for which I see		lve	type fittings. In support of
this application, the following information and/or test of	data are attached as follows:	The Car States and American	
ISO 9001:2015 Certificate, Attachment A, Atta		- Artic	nents
e'	(drawings, calculations, test reports, e	etc.)	
Declared before me at	in the	5	of
the day of	AD 20		
or seal due to COVID-19 situation - August 27, 20 (Signature)	gnature	Adl. 7	Declarer)
To the best of my knowledge and belief, the application Technical Standards and Safety Act, Boilers and CSA Standard B51 and is accepted for registration CRN:  OC22706.5	d Pressure Vessels Regulation, and in Category C  This Do	ne and Safety Authority  REGIS  comment of digitally C.R.N.: 0C22706  mp size Signed	Boilers and Pressure Vessels Safety Program  STERED
Dated: SEPT 28, 2020		of facts	nber 28, 2020.
NOTE: This registration expires on:	PT 28, 2030	attachment A and B.	

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

THIS IS PART OF CRN 0C22706.5

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
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



Canadian Registration Number Submittal
Category C: Swagelok Sno-Trik High Pressure Needle Valves

# Attachment B. Scope of CRN Registration for Swagelok Sno-Trik 410, 445, 645 and 945 Series High-Pressure Needle Valves (Category C)

This document represents the scope of the Sno-Trik 410, 445, 645 and 945 Series High-Pressure Needle Valves covered by this submission for CRN approval. The 410 Series Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components, while the 445, 645 and 945 High-Pressure Needle Valves were designed and evaluated in accordance with ASME B31.3 Chapter IX for unlisted components.

### **Summary Table**

		Main Pressure		Maximum Rated Pressure (psig)		Design Code
Product Series	Pressure Bearing Component	Bearing Material (Standard)	Port Connections and Sizes	At -65 to 100°F	At maximum temperature	of Construction
410	Body	316 SS (ASTM A479)	Female NPT 1/4"	15,000	6085 @ 850°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
445 Body	Body	316 SS (ASTM A479)	Swagelok straight thread high-pressure Female 9/16"	45,000	33,400 @ 450°F	
			Medium Pressure 1/4"	20,000	18,600 @ 450°F	
645 Body	316 SS	Swagelok straight thread high-pressure Female 3/4	45,000	33,400 @ 450°F	ASME B31.3 Chapter IX	
	,	(ASTM A479)	Medium Pressure 3/8"	20,000	18,600 @ 450°F	(Unlisted Components)
945	Body	316 SS (ASTM A479)	Swagelok straight thread high-pressure Female 1-1/8	45,000	33,400 @ 450°F	
			Medium Pressure 1/2"	20,000	18,600 @ 450°F	

### THIS IS PART OF CRN

Date: August 13, 2020

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### **Product Illustration**



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### **Typical Product Characteristics:**

Some of the product options listed below affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are equal to or less than those shown in the Summary Table. All of the following options are within the scope of this registration:

### **Stem Material**

440C SS S17400 SS

### **Stem Seal Material**

Glass-Filled PTFE Grafoil

### **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 registration, but rather details some of the most common options.

 Medium and High-Pressure Fittings, Tubing, Valves and Accessories Catalog MS-02-472, Rev M