

Inspection and Technical Services Municipal Relations 508-401York Ave Winnipeg, Manitoba Canada R3C 0P8 T 204-945-3373 F 204-948-2089 www.fireccomm.gov.mb.ca/itsm main

18 June 2021

TSSA 345 Carlingview Drive Toronto, ON M9W 6N9

Dear Tanya Francis

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-R1594CRN:0A23291.54Scope:Attachments: A (Manufacturing Locations) and B (Scope of Registration for TubeFittings Swagelok Alloy 825 - ASTM B425 UNS N08825)Manufacturer:Swagelok CompanyExpiry Date:1 June 2031

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 <u>qasupport@gov.mb.ca</u> for any questions or concerns.

Inspection and Technical Services Municipal Relations 508 - 401 York Avenue, Winnipeg Manitoba R3C 0P8 T (204) 945-3373 | F (204) 948-2089



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



STATUTORY DECLARATION Registration of Fittings						
	ungs					
I, Joel Feldman, Vice President of Engineering						
(Name and Position, e.g. President, Plant Manager, Chief Engineer)						
of Swagelok Company (Name of Manufacturer)						
Located at 29500 Solon Road, Solon, Ohio 44139 USA	(440) 248-4600					
(Plant Address)	(Telephone No.)	(Fax No.)				
 do solemnly declare that the fittings listed hereunder, which are subject and Pressure Vessels Regulation, comply with all of the requirements 		s and Safety Act, Boilers				
ASME B31.1 for unlisted components, and ASME B31.3 for unlisted	-					
(Title of recognized North American Star which specifies the dimensions, materials of construction, pressure/temperatu		a the fittings and service:				
or are not covered by the provisions of a recognized North American sta as supported by the attached data						
pressure/temperature ratings and the basis for such ratings, the marking						
		at at ISO 9001-2015				
I further declare that the manufacture of these fittings is controlled by a quality s which has been verified by the following authority, BSI	stem meeting the requireme	ents of 100 5001.2015				
The items covered by this declaration, for which I seek registration, are category A. Fi	tting	type fittings. In support of				
this application, the following information and/or test data are attached as follows:						
ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Informatio	n and other Support Docum	nents				
(drawings, calculations, test reports,	etc.)					
Declared before me at of						
the day ofAD 20						
Commissioner for Oaths:	-DocuSigned by:	~				
Unable to get a notary signature or	115					
seal due to COVID-19 situation	for L	11-				
sear due to COVID-19 situation		472/2021 8:11 A				
(Signature)	(Signature of L	Declärer)				
FOR OFFICE USE ON	Y					
To the best of my knowledge and belief, the application meets the requirements of	the Technical	Boilers and				
Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation,	and Standards and Safety	Pressure Vessels Safety Program				
CSA Standard B51 and is accepted for registration in CategoryA	Authority					
CRN: 0A23291.5	s REGIS	TERED				
Registered by: LILIANA CONSTANTINESCU	c.R.N.: 0A23291.	5				
UNE 1 2021	e stamp e has been imized for Date: June 1,	2021.				
	x 17 cuments					

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request. FOR SCOPE OF REGISTRATION SEE THE STAMPED PV 09553 (04/17) ATTACHMENTS A AND B



Canadian Registration Number Submittal Category A: Swagelok Alloy 825 Tube Fittings

Attachment B. Scope of Registration for Swagelok Alloy 825 (ASTM B425 UNS N08825) Tube Fittings (Category A)

This document presents the scope of Swagelok Nickel-Chromium Alloy 825 Tube Fittings covered by this submission for CRN approval. These fittings have been evaluated in accordance with ASME B31.1-2020 and ASME B31.3-2018 for unlisted components.

The fittings rating is based on the lower rating between the type of end connections. **Summary Table**

		Maximum Allowable Working Pressure				
Product Description or Series	Material (Standard)	Port Connections and Sizes	Up to 100°F (psig)	At maximum temperature per ASME B31.3 (psig)	At maximum temperature per ASME B31.1 (psig)	Design Code of Construction
	Fittings hardware Adapter		See Table below	See Table below	See Table below	Unlisted Component in ASME B31.1 & B31.1
Gaugeable Tube Fittings and Adapter Fittings		NPT, Male 1/16 - 1 inch	11 600 - 6100	11 449 – 6021* at 800°F (426°C)	8468 - 4453* at 800°F (426°C)	ASME B1.20.1 is listed in
	UNS N08825	NPT, Female 1/16 - 1 inch	7800 - 5100	7699 - 5034* at 800°F (426°C)	5694 - 3723* at 800°F (426°C)	ASME B31.1 & B31.3

**Rating for fitting material (may be limited by thread sealant)

Alloy 825 Swagelok Tube Fitting Pressure Rating Tables

	Maximum Allowable Working Pressure		
Swagelok End Connection Size	Up to 100°F	At maximum temp. 800°F (426°C) per ASME B31.3	At maximum temp. 800°F (426°C) per ASME B31.1
1/4 inch	11600 psig	11 449 psig	8468 psig
3/8 inch	8200 psig	8093 psig	5986 psig
1/2 inch	5900 psig	5823 psig	4307 psig
6 mm	660 bar	651 bar	482 bar
10 mm	480 bar	474 bar	350 bar
12 mm	480 bar	474 bar	350 bar



Canadian Registration Number Submittal Category A: Swagelok Alloy 825 Tube Fittings Date: March 8, 2021 Page 2 of 3

Product Description

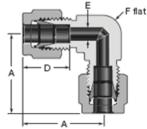
Swagelok Fittings are furnished in a variety of configurations and shapes (straight, elbow, or tee). Swagelok Fittings consist of at least one Swagelok End – a two-ferrule mechanical-grip design. The Swagelok end is a proprietary design, and the assembly consists of Swagelok body, nut, front and back ferrule (see detail). The table above, as well as the "Configurations" section, covers a variety of other end connections.

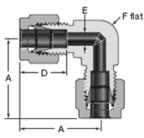




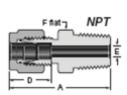
Configurations

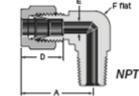
1. Unions (Straight, Elbow, Tee) Swagelok Tube Fitting End Connections

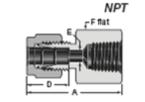


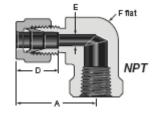


2. Male and Female Connectors / Adapters (Straight, Elbow, Tee) Swagelok Tube Fitting End Connection to an NPT End Connection









Swagelok to NPT Male Connectors

Swagelok to NPT Female Connectors

(For dimensions see catalog.)



Canadian Registration Number Submittal Category A: Swagelok Alloy 825 Tube Fittings Date: March 8, 2021 Page 3 of 3

Product Options:

The product options listed below affect pressure and/or temperature ratings shown in the above Summary Table, but in all cases the ratings are less than, or equal to, those shown in the table.

- 1. Bored-Through Fittings.
- 2. Sealant for tapered pipe threads (NPT):
 - a. Curable resin with PTFE
 - b. PTFE tape

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:

- 1. Special marking
- 2. Special cleaning
- 3. Wire drills
- 4. Bulkhead Configurations
- 5. Snubbers/frits and orifice plates
- 6. Equivalent metric or fractional hex sizes

All the above options, those that affect pressure and/or temperature ratings and those that do not, 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.

- Gaugeable Tube Fittings and Adapter Fittings MS-01-140, Rev AE
- Swagelok Tubing Data Sheet MS-01-107, Rev T

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