

7/17/2019

TSSA 345 Carlingview Drive Toronto ON, M9W 6N9

Dear Joanna Karpinski

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-R49

CRN:

0A21487.54

Scope:

SEE ATTACHMENT A AND B FOR SCOPE OF REGISTRATION) REV C

Manufacturer: SWAGELOK COMPANY

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



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



STATUTORY DECLA		
Registration of Fittin	igs	
I, Joel Feldman, Vice President of Engineering		
(Name and Position, e.g. President, Plant Manager, Cl	lef Engineer)	
of Swagelok Company		
(Name of Manufacturer)		
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 and Pressure Vessels Regulation, comply with all of the requirements of		s and Safety Act, Boilers
ASME B31.1 for unlisted components, and ASME B31.3 for unlisted com		
(Tille of recognized North American Standard, which specifies the dimensions, materials of construction, pressure/temperature ra		g the fittings and service;
or are not covered by the provisions of a recognized North American standa as supported by the attached data which pressure/temperature ratings and the basis for such ratings, the marking of the	ch identifies the dimensior	ns, material of construction,
I further declare that the manufacture of these fittings is controlled by a quality system which has been verified by the following authority, BSI	n meeting the requireme	nts of ISO 9001:2015
The items covered by this declaration, for which I seek registration, are category A. Fitting this application, the following information and/or test data are attached as follows: ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and		type fittings. In support of ents
(drawings, calculations, test reports, etc.)		
Declared before me at in the	ate .	of 0h10
the 14th day of March AD 20 19.		
Commissioner for Oaths:		
Brenda Nammel		
Bools Hannel	(Signature of D	eclarer)
To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation and CSA Standard B51 and is accepted for registration in Category CRN: OA 21487. C.R. Registered by:	REGISTER	ers and sure Vessels ety Program
Dated: June 10, 2013 NOTE: This registration expires on: June 10, 2029 Sign Date	1.0010	2019

PV 09553 (06/16)

to sope of registration see attached stamped documents: attachment A and B

Attachment A. Swagelok Manufacturing Locations

This document lists the Swagelok locations where end item or component level manufacturing activities take place.

Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143
358 Bishop Road Highland Heights, Ohio 44143
USA
Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139
Swagelok Company (Strongsville) 15400 Foltz Road Strongsville, Ohio 44119
Swagelok Limited



Attachment B. Scope of Registration for Swagelok Alloy 400, (ASTM B164 / B564), Tube Fittings (Category A)

This document represents the scope of Swagelok Alloy 400 Tube Fittings covered by this submission for CRN approval. These Swagelok Tube Fittings have been evaluated in accordance with ASME B31.3 for unlisted components and ASME B31.1 for unlisted components.

Summary Table

Product	Material	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code
Description or Series	Material		Up to 100°F	At maximum temperature	of Construction
		Swagelok tube fitting 1/8 – 1 inch 6mm - 25mm	n See Table on See	ASME B31.3	
Gaugeable Tube Fittings and Adapter	gs and B164 /	NPT Male 1/16 - 1 inch	9200-4400 psig	6900 – 3300 psig @ 800°F (426°C)	(Unlisted Components)
Fittings	,	NPT Female 1/16 - 1 inch	5600-3700 psig	4200 – 2775 psig @ 800°F (426°C)	(Unlisted Components)



Alloy 400 Swagelok Tube Fitting Pressure Rating Table

	Maximum Allowable Working Pressure (
Swagelok End Connection Size	Up to 100°F	At maximum temperature 800°F (426°C)	
1/8	10,100 psig	7575 psig	
3/16	9500 psig	7125 psig	
1/4	9500 psig	7125 psig	
5/16	7300 psig	5475 psig	
3/8	6100 psig	4575 psig	
1/2	4400 psig	3300 psig	
5/8	5600 psig	4200 psig	
3/4	4600 psig	3450 psig	
7/8	4500 psig	3375 psig	
1"	4300 psig	3225 psig	
6 mm	620 bar	465 bar	
8 mm	450 bar	337.5 bar	
10 mm	350 bar	262.5 bar	
12 mm	290 bar	217.5 bar	
14 mm	270 bar	202.5 bar	
15 mm	330 bar	247.5 bar	
16 mm	320 bar	240 bar	
18 mm	300 bar	225 bar	
20 mm	290 bar	217.5 bar	
22 mm	310 bar	232.5 bar	
25 mm	290 bar	217.5 bar	

Note (1): Values based on thickest wall alloy 400 tubing per Swagelok Tubing Data Sheet MS-01-107.



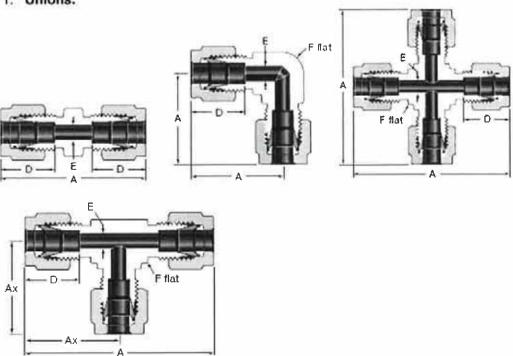
Product Description

Swagelok Fittings are furnished in a variety of configurations and shapes (straight, elbow, tee or cross). Swagelok Fittings consist of at least one Swagelok End – a proprietary two-ferrule mechanical-grip design. The "Configurations" section covers other available end connections.

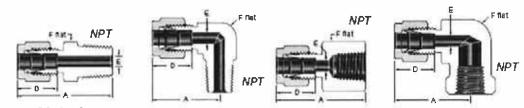


Configurations

1. Unions.

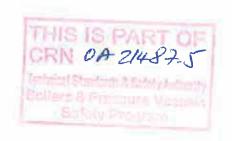


2. Male and Female connectors / adapters.



NPT Male Connectors

Female Connectors



Product Options:

Some of the product options listed below affect the pressure-temperature ratings in the "Scope of Registration" section above, but in all cases the pressure ratings are the same or less than those shown in the table.

- 1. Tapered pipe threads (NPT) with sealant.
 - a. Curable resin with PTFE
 - b. PTFE tape
- 2. Bored through fittings
- 3. Plastic ferrules (Nylon, Teflon, Peek)

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

Other options, not shown above, with pressure/temperature ratings equal to or less than shown in the Summary Table or do not affect pressure/temperature ratings may be made available under 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 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. Y
- Swagelok Tubing Data Sheet MS-01-107, Rev Q

