Alberta Municipal Affairs

STATUTORY DECLARATION Registration of Fittings

the pressure

AB-41 2016-01

I, J	oel Feldman	, Vice President, Engineerin	g	In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.		
of	(name of applicant) Swagelok Company	(position title) (must be in a positi	on of authority)	Swagelok		
-		(name of manufacturer)		,		
loca	ted at 29500 Solon Road, Sol	on, Ohio 44139 USA (see Attachme	nt A)			
		(plant address)				
	olemnly declare that the fitting eck one)	s listed hereunder, which are subjec	t to the Safety C	Codes Act		
\boxtimes	comply with the requirement	ts of ASME B31.1 and ASME B31.3 (title of recognized North American St	and the second se	ecifies the dimensions,		
	materials of construction, p	pressure/temperature ratings and ide	ntification mark	ing of the fittings, or		
	are not covered by the provisions of a recognized North American standard and are therefore manufactured					
	to comply with		as	supported by the attached		
	(title of	code of construction or other applicable docu	ment)			
	data which identifies the dir	mensions, materials of construction,	pressure/tempe	rature ratings and the basis		
	for such ratings, and the ma	arking of the fittings for identification				
I fur	ther declare that the manufact	ure of these fittings is controlled by a	quality control	program which has been		
verif	fied by the following authority, I	BSI a	s being suitable	for the manufacture of		
thes	e fittings to the stated standar	d. The fittings covered by this decla	ration for which	I seek registration are		
In si		(brief description of fittings) ollowing information, calculations and nment A, Attachment B, Catalog Info				
DEC	CLARED before me at day of	city) in the <u>State</u> <u>CCtober</u> <u>2019</u> (Month) (Year)	of(p	rovince or state)		
(pri	(a Commissioner of Oaths or I	Notary Public)	fela	7.4		
(sigi	(a Commissioner of Oaths or I	Notary Public)	(signature o	f applicant)		
For	ABSA Office Use Only:					
NOT	TES:					
To t Star	he best of my knowledge and I ndard B51, Clause 4.2, and is a	belief, the application meets the requ accepted for registration in Category	irements of the	BSA Safety Codes Act and CSA 222214.52		
Reg	istration Number		(SGASILIERS)	ance letter for		
Date	e Registered:	Expiry D		By: Jrmg/MA XING LIU, P. Eng.		
	nformation you provide is necessary only sure Equipment Discipline.	r for the administration of the programs as requir		ave been affixed electronical ulations in the s required by Section 20(1) of		

the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

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

Canadian Registration Number Submittal #HC-TUBEFIT-2019 Category A: Swagelok Alloy C-276 Tube Fittings

<u>Attachment B. Scope of Registration for Swagelok Alloy C-276</u> (ASTM B564, B574) Tube Fittings (Category A)

This document represents the scope of Swagelok Alloy C-276 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 (Standard)	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code
Description or Series			Up to 100°F	At maximum temperature	of Construction
	Alloy C276 (ASTM B564 / ASTM B574)	Swagelok End Connection 1/4 inch – 1/2 inch 6mm - 12mm	See Table below	See Table below	ASME B31.3 (Unlisted
Gaugeable Tube Fittings and Adapter Fittings		NPT Male 1/16 - 1 inch	11 000 – 5300 psig	9020 - 4350 psig @ 1000°F (537°C)	
Fiuligs		NPT Female 1/16 - 1 inch	6700 – 4400 psig	5500 - 3610 psig @ 1000°F (537°C)	Components)

Alloy C-276 Swagelok Tube Fitting Pressure Rating Table

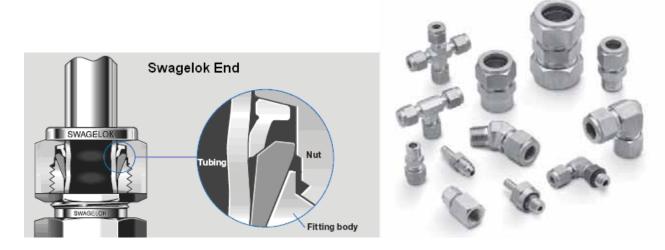
	Maximum Allowable Working Pressure			
Swagelok End Connection Size	Up to 100°F	At maximum temperature 1000°F (537°C)		
1/4 inch	10 200 psig	7752 psig		
3/8 inch	6500 psig	4940 psig		
1/2 inch	5100 psig	3876 psig		
6mm	670 bar	509 bar		
10mm	380 bar	289 bar		
12mm	310 bar	235 bar		

Swagelok

Canadian Registration Number Submittal #HC-TUBEFIT-2019 Category A: Swagelok Alloy C-276 Tube Fittings

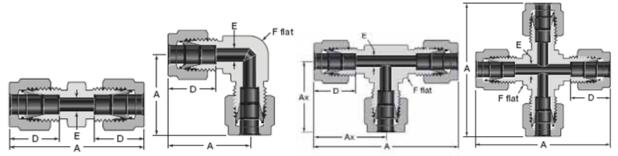
Product Description

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 table below, as well as the "Configurations" section, covers a variety of other end connections.

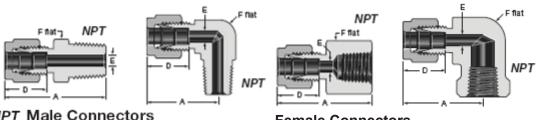


Configurations

1. Unions.



2. Male and Female connectors / adapters.



NPT Male Connectors

Female Connectors

Swagelok

Canadian Registration Number Submittal #HC-TUBEFIT-2019 Category A: Swagelok Alloy C-276 Tube Fittings

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 Summary Table on page 1.

- Sealant for NPT pipe threads
 - o Curable resin with PTFE
 - PTFE tape
- Bored through fittings
- 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:

- Special marking
- Special cleaning
- Wire drills
- bulkhead configurations
- Snubbers/frits and orifice plates

All of the above options, those that affect pressure and/or temperature ratings and those that do not, are within the scope of this approval.

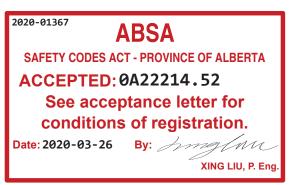
Quality System

The Swagelok Company quality system complies with the requirements of ISO 9001:2015. 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 Y
- Swagelok Tubing Data Sheet MS-01-107, Rev N



This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.



March 26, 2020

Attention: Tanya Francis TECHNICAL STANDARDS & SAFETY AUTHORITY 345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, tracking number 2020-01367, originally received on March 09, 2020 was surveyed and accepted for registration as follows:

CRN :0A22214.52Accepted on: March 26, 2020Reg Type:NEW DESIGNExpiry Date: March 02, 2030Drawing No. : ATTACHMENT A&B C-276 TUBE FITTINGS Rev FEB62020Fitting type:Fitting type:PIPE FITTINGDesign registered in the name of : SWAGELOK COMPANY

The registration is conditional on your compliance with the following notes:

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.1 and ASME B31.3.

- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.

- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3388 or fax (780) 437-7787 or e-mail Liu@absa.ca.

Sincerely,

mejM

LIU, XING, P. Eng. DOP Cert. No. D00008861