



AR.41 2016.01

STATUTORY DECLARATION Registration of Fittings

I, <u>J</u>	oel Feldman	, Vice President, Engineering	In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.
(name of applicant) (good Swagelok Company		(position title) (must be in a position of auth	Swagelok
-		(name of manufacturer)	
local	ted at 29500 Solon Road, Sol	lon, Ohio 44139 USA (see Attachment A)	
0.2000		(plant address)	
	olemnly declare that the fittings ck one)	s listed hereunder, which are subject to the	Safety Codes Act
\boxtimes	comply with the requiremen	nts of ASME B31.1 and ASME B31.3 (title of recognized North American Standard)	which specifies the dimensions,
	materials of construction, p	pressure/temperature ratings and identification	on marking of the fittings, or
	are not covered by the prov	visions of a recognized North American stand	dard and are therefore manufactured
	to comply with		as supported by the attached
		code of construction or other applicable document)	<u> </u>
	data which identifies the din	mensions, materials of construction, pressure	e/temperature ratings and the basis
	for such ratings, and the ma	arking of the fittings for identification.	
I furt	her declare that the manufactu	ure of these fittings is controlled by a quality	control program which has been
verif	ied by the following authority, I	BSI as being	suitable for the manufacture of
thes	e fittings to the stated standard	d. The fittings covered by this declaration, for	or which I seek registration, are
	THE EXPENSION OF A CONTROL (1945) 전투 (1945) 전		
Ca	tegory A Type Fittings	(brief description of fittings)	
In si	inport of this application, the fo	ollowing information, calculations and/or test	data are attached:
50	apport of this application, the ic	nowing information, calculations and/or test	data are attached.
ISC	9001:2015 Certificate, Attach	nment A, Attachment B, Catalog Information	and other Support Documents
DEC	CLARED before me at	on the state	of Ohio
DLO		city)	(province or state)
this	3rd day of C	(Month) (Year)	***************************************
(prir	(a Commissioner of Oaths or N		
(sigr	(a Commissioner of Oaths or N	nel _	ignature of applicant)
For	ABSA Office Use Only:	(Si	grature of approximy
	ES: Swagelok Alloy 600 Tu	be Fittings	
To th	ne best of my knowledge and b	belief, the application meets the requirement	ts of the Safety Codes ABSA CSA SAFETY CODES ACT - PROVINCE OF ALBER
	istration Number:		ACCEPTED: 0A22314.52 ature of the Administrators to the Administra
Date	Registered:	Expiry Date:	conditions of registration. Date: 2020-05-11 By:
The in		for the administration of the programs as required by the A	

9410 - 20 Ave N.W.

Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

May 11, 2020

Attention: Tanya Francis

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, tracking number 2020-02479, originally received on May 07, 2020 was surveyed and accepted for registration as follows:

CRN: 0A22314.52 **Accepted on:** May 11, 2020

Reg Type: NEW DESIGN Expiry Date: April 03, 2030

Drawing No.: SEE ATTACHMENT B FOR SCOPE OF REGISTRATION

Fitting type: SWAGELOK ALLOY 600 TUBE FITTINGS

Design registered in the name of : SWAGELOK COMPANY

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

** See attachment A for a list of Swagelok manufacturing locations

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

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.
- 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 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely,

DICK, ASHLING, P. Eng. DOP Cert. No. D00007936

2020-02479 Page 1 of 1

^{**} The annealed bar allowable stresses are used for the B166 N06600 material



Attachment B. Scope of Registration for Swagelok Alloy 600 (ASTM B166, B564) Tube Fittings (Category A)

This document represents the scope of Swagelok Inconel Alloy 600 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 Description	Material (Standard)	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code of
or Series			Up to 100°F	At maximum temperature	Construction
	Alloy 600 (ASTM B166 / ASTM B564)	Swagelok End Connection 1/4, 3/8, 1/2 inch 6mm, 10mm, 12mm	See Table below	See Table below	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)
Gaugeable Tube Fittings		NPT Male 1/16 - 1 inch	11 000 – 5300 psig	8800 - 4240 psig @ 900°F (482°C)	ASME B31.1 (Unlisted Components)
and Adapter Fittings			11 000 – 5300 psig	3300 - 1590 psig @ 1000°F (537°C)	ASME B31.3 (Unlisted Components)
		NPT Female 1/16 - 1 inch	6700 – 4400 psig	5360 - 3520 psig @ 900°F (482°C)	ASME B31.1 (Unlisted Components)
			6700 – 4400 psig	2010 - 1320 psig @ 1000°F (537°C)	ASME B31.3 (Unlisted Components)

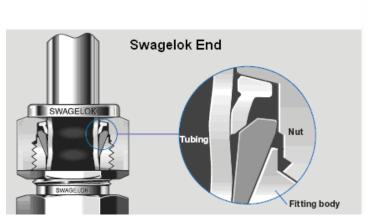
Alloy 600 Swagelok Tube Fitting Pressure Rating Table

	Maximum Allowable Working Pressure				
Swagelok End Connection Size	Up to 100°F	At maximum temperature 900°F (482°C) ASME B31.1	At maximum temperature 1000°F (537°C) ASME B31.3		
1/4	10 200 psig	5814 psig	3570 psig		
3/8	6500 psig	3705 psig	2275 psig		
1/2	5100 psig	2907 psig	1785 psig		
6mm	670 bar	381 bar	234 bar		
10mm	380 bar	216 bar	133 bar		
12mm	310 bar	176 bar	108 bar		



Product Description

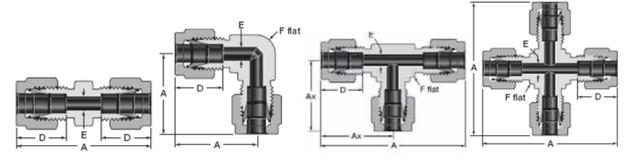
Swagelok Fittings are furnished in a variety of configurations and shapes (straight, elbow, tee or cross). Swagelok Fittings consist of at least one Swagelok End – a proprietary two-ferrule mechanical-grip design. The table below, as well as the "Configurations" section, covers a variety of other end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



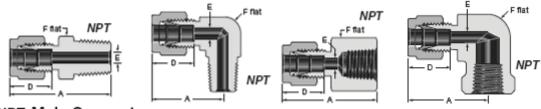


Configurations

1. Unions.



2. Male and Female connectors / adapters.



NPT Male Connectors

Female Connectors



Canadian Registration Number Submittal #INC-TUBEFIT-2019 Category A: Swagelok Alloy 600 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.

- Tapered pipe thread (NPT) sealant:
 - 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

ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
ACCEPTED: 0A22314.52
See acceptance letter for conditions of registration.
Date: 2020-05-11 By: Ashling Dick, P. Eng.

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.

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	