



STATUTORY DECLARATION Registration of Fittings

			In this space, show facsimile of
I, Joel Feldma	n	Vice President of Engineering	manufacturer's logo or trademant as it will appear on the fitting.
(nam of Swagelok (e of applicant) Company	(position title) (must be in a position of authority)	Swagelok
		ne of manufacturer)	- magaione
located at 2950		Ohio 44139 USA (see Attachment A)	
	(i	plant address)	
do solemnly ded (check one)	clare that the fittings liste	ed hereunder, which are subject to the Safe	ty Codes Act
		ASME B31.1 and ASME B31.3 which (little of recognized North American Standard)	specifies the dimensions,
materials	s of construction, pressu	ure/temperature ratings and identification m	arking of the fittings, or
☐ are not c	overed by the provisions	s of a recognized North American standard	and are therefore manufactured
to compl			as supported by the attached
	(title of code o	of construction or other applicable document)	
data which	ch identifies the dimensi	ons, materials of construction, pressure/ten	perature ratings and the basis
		of the fittings for identification.	
I further declare	that the manufacture of	these fittings is controlled by a quality control	rol program which has been
	ollowing authority, BSI		ble for the manufacture of
		the state of the s	
mose mangs to	ine stated standard. The	e fittings covered by this declaration, for wh	ich i seek registration, are
Category A Typ	pe Fittings		
	(b	rief description of fittings)	
in support of this	s application, the following	ng information, calculations and/or test data	are attached:
190 0001:2016	Cartificate Attachment	A AH	
150 9001.2015	Certificate, Attachment	A, Attachment B, Catalog Information and	other Support Documents
DECLARED before	(city)	in the State of _	(province or state)
this July	day of (Mo	onth) (Year)	
(print) (a Com	missioner of Oaths or Notary F	Public)	
(sign) Bue	missioner of Oaths or Notary		tell
For ABSA Office		Public) (signatur	e of applicant)
NOTES:	e ose only:		
named and and	Note to the property	20 NO	
Standard B51, C	y knowledge and belief, lause 4.2, and is accept	the application meets the requirements of the defor registration in Category	he Safety Codes Act and CSA
Registration Num	nber: 0 A 2 1 4 8	7.52	f the Administrator/SCO)
Date Registered:	7019-08-0	A CONTRACTOR OF THE PROPERTY O	29 - p 6 - 1 D
the first of the second	ovide is necessary only for the a	administration of the programs as required by the Alberta	Safety Codes Act and Regulations in the

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 Description or Series	Material	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code
			Up to 100°F	At maximum temperature	of Construction
Gaugeable Tube Fittings and Adapter Fittings	Alloy 400 (ASTM B164 / B564)	Swagelok tube fitting 1/8 – 1 inch 6mm - 25mm	See Table on Page 2	See Table on Page 2	ASME B31.3 (Unlisted Components) ASME B31.1 (Unlisted Components)
		NPT Male 1/16 - 1 inch	9200-4400 psig	6900 – 3300 psig @ 800°F (426°C)	
		NPT Female 1/16 - 1 inch	5600-3700 psig	4200 – 2775 psig @ 800°F (426°C)	

DA21487.52

t	ASA
SAFETY CODES AC	T - PROVINCE OF ALBERTA
REGISTRAT	TON OF FITTINGS
DWG. NO. or CAT. NO.	AZI487,52 Attachungent B Pipe Fitting TIALS XL XING LIU, P.Eng. DESIGN SURVEY ENGINEER

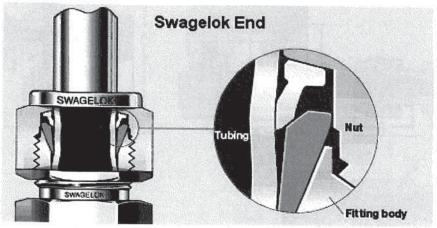
Alloy 400 Swagelok Tube Fitting Pressure Rating Table

	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.

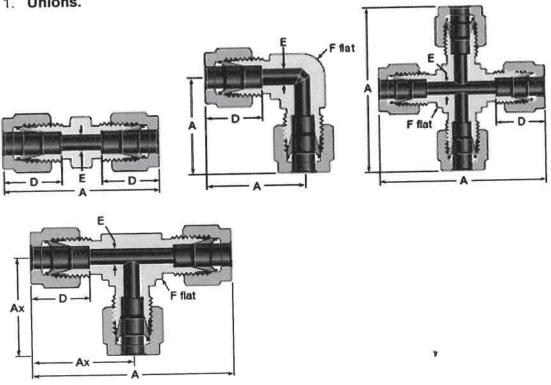




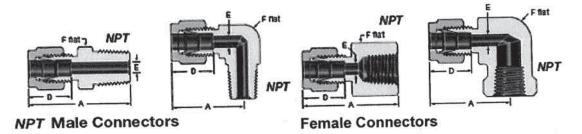
Swagelok Canadian Registration Number Submittal #M-TUBEFIT-2019 Category A: Swagelok Monel Tube Fittings

Configurations

1. Unions.



2. Male and Female connectors / adapters.



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

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) 29900 Solon Industrial Parkway Solon, Ohio 44139	Swagelok Company (Strongsville) 15400 Foltz Road Strongsville, Ohio 44119
Swagelok (China) Fluid System Technologies Ltd.	Swagelok Company A.G. (European Technology
Changshu Export Process Zone	Center)
Changshu Economic Development Zone	St. GallerstraBe 84
Changshu, Jiangshu	Lachen, Switzerland 8853
215513 China	Switzerland
Swagelok Limited Tromode IM4 4RA Isle of Man	2