

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



	STATUTORY I	DECLARATION n of Fittings	
, Joel Feldman, Vice President of E		at Hannas Chial Engineed	
- Susaalak Camaaau	(Name and Position, e.g. President, Pla	rit manager, Criter Engineer)	
of Swagelok Company	(Name of Manufa	cturer)	
20E00 Solan Bond So		000000000000000000000000000000000000000	(440) 240 5070
Located at 29500 Solon Road, So	Plant Address)	(440) 248-4600 (Telephone No.)	(440) 349-5970 (Fax No.)
	ings listed hereunder, which are ion, comply with all of the requir	subject to the Technical Standar	rds and Safety Act, Boilers
	ponents, and ASME B31.3 for u		
which enerifies the dimensions in	(Title of recognized North Ame	erican Standard) mperature ratings, identification mark	ring the fittings and sening
	as supported by the attack d the basis for such ratings, the r	erican standard and are therefore re ned data which identifies the dimens marking of the fitting for identification	ions, material of construction, in and service.
	ified by the following authority, BSI	quality system meeting the requirer	nents or
The items covered by this declaration, for		ny A. Fitting	type fittings. In support of
this application, the following information a ISO 9001:2015 Certificate, Attachme		구르기 그는 눈이 살아보는 그는 그는 사람이 되었다면 살아 보다가 있다는 그가 싶어요? 얼굴이 했다.	uments
	(drawings, calculations, te	st reports, etc.)	
Declared before me at <u>Soloo</u>	in	the State	of Ohio
the _3rd day of CC	tolog AD 20 19.		
Brenda Hampel (Printed name)  Brenda Hampel (Signature)		fact. 2	( Declarer)
To the best of my knowledge and belief, Technical Standards and Safety Act, CSA Standard B51 and is accepted for	Boilers and Pressure Vessels Reg	nents of the Standards and Safety Authority	Boilers and Pressure Vessels Safety Program
CRN: 0A22314.	5	REGIS	STERED
Registered by:		Signed: L	
Dated: APRIL 3,	2020	Date: April 3,	
NOTE: This registration expires of	APRIL 3, 2030	Scope of registration: Swagelok Alloy 600 tu	

<sup>\*</sup>Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

PV 09553 (04/17)



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**

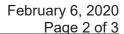
waqelok

0A22314.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety

Product		Port Connections and	Maximum Allowable Working Pressure		Program  Posign Codo
Description or Series Material (Standard)	Design Code of				
	(Standard)	Sizes	Up to 100°F	At maximum temperature	Construction
Gaugeable Tube Fittings and Adapter Fittings  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)	
	NPT Male 1/16 - 1 inch	11 000 – 5300 psig	8800 - 4240 psig @ 900°F (482°C)	ASME B31.1 (Unlisted Components)	
		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

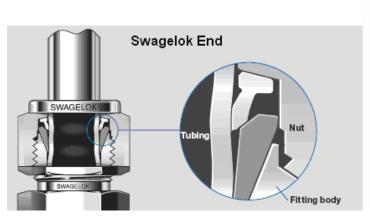
	Maximum Allowable Working Pressure			
Swagelok End Connection Size	Up to 100°F	At maximum temperature 900°F (482°C) ASME B31.1	At maximum temperature 1000°F (537°C) ASME B31.3	
1/4	10 200 psig	5814 psig	3570 psig	
3/8	6500 psig	3705 psig	2275 psig	
1/2	5100 psig	2907 psig	1785 psig	
6mm	670 bar	381 bar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



## **Product Description**

Swagelok

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.



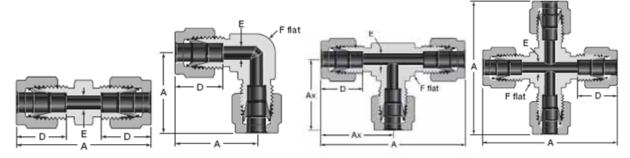


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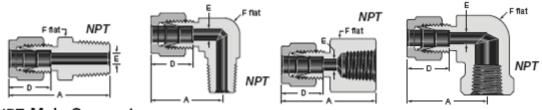
Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

## **Configurations**

1. Unions.



## 2. Male and Female connectors / adapters.



NPT Male Connectors

**Female Connectors** 

February 6, 2020 Page 3 of 3

#### **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:
  - 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.

THIS IS PART OF CRN

0A22314.5

Technical Standards and Safety Authority
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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

# **Attachment A. Swagelok Manufacturing Locations**

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

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0A22314.5

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

	Program		
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		