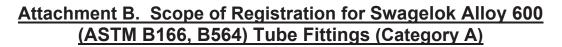
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK NUNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAM	E: Swagelok Company		
MANUFACTURERS ADD		d, Solon, Ohio 44139 USA	
PLANT LOCATIONS: 110	adauarters: 20500 Solor	Road, Solon, Ohio 44139 USA (See	Attachment A)
CATEGORY OF	FITTINGS TO BE REGISTER	ED. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
Pipe fittings, Including of B Flanges: all flanges C Valves: all flanges D Expansion joints, flexible Strainers, fitters, separa Measuring devices, including flanges Certified capacity-rated bollers, pressure vesse H Pressure retaining comp	couplings, tees, eibows, Ys, plu le connections, and hose asser stors, and steam traps ucling pressure gauges, lovel g pressure relief devices accept is, pioing and fusible plugs ponents that do not fail into one	gs, unions, pipe caps, or reducers nblies: all types auges, sight glasses, levels, or able as primary over pressure protection on	ASME B31.1 for unlisted components, ASME B31.3 for unlisted components
		OGO AS IT WILL APPEAR ON THE PRODI	UCT TYPE OF CONSTRUCTION
Sw	agelok	WOO AS IT MILE AFFEAR ON THE PROOF	PORGED M WELDED O WROUGHT M CAST O OTHER O
LIST OF SUPPORTING D	OCUMENTATION AND IDENT	IFICATION OF THE ACTUAL ITEMS TO BE	EREGISTERED:
responsibility for the qual my knowledge represent temperature ratings, and manufacture of these little or in part and has been y	the product for which regis identification markings are ings is regulated by a Qualiterified by BSI why believing it to be true, and the control of the cont	lemnly declare that the information contistration is sought. The dimensions, matrix accordance with the herein named stay Control Program which extends to eac as being suitable to discovering that it is of the same force and U.S.E.T.H.	andards, I further declare that the ch plant where fabrication occurs in whole or that purpose and I make this solemn
This 30 day of	CCCCASE AD	3019T 0F	FICIAL SEAL
Commissioner of Oaths: or Notary Public: (sign) _	(Affix Official seal to the r	Ight) Is space for Regulatory Authority use	
		wildeled allow for 100 years from the d	ste of esceptance.
B166 N06600 ma Notes:	B166, B564) Tube Fitterial the annealed ba	facturer. lectaration	BY 0A22314.5Y
at a maximum interval of fi	ve (5) years. pril 3, 2030 - DG		DATE05/15/2020/



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

wagelok

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Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

	Material (Standard)	Port Connections and	Maximum Allowable Working- Pressure		Program
Product Description or Series					Design Code of
		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)

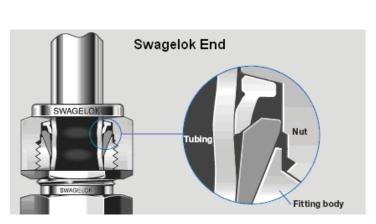
Alloy 600 Swagelok Tube Fitting Pressure Rating Table

	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 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.





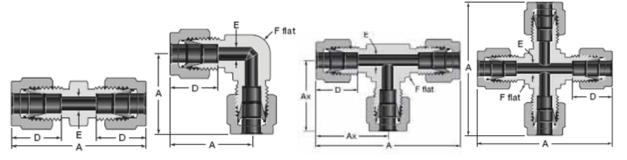
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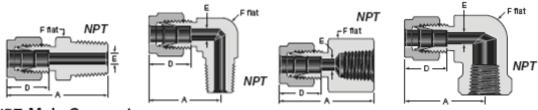
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Configurations

1. Unions.



2. Male and Female connectors / adapters.



NPT Male Connectors

Female Connectors

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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.

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Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety

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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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		