**REGISTERED** 



CRN: CSA - 0A21395.56

2202 2nd Ave.

Technical

Safety Authority egistration Process ad FAK (306) 798-7112 Toll Free (866) 760-9255

of Saskatchewan CSA Group per CSA B51

Regina, SK S4R 1K3
PH (306) 798-7112 Toll Free (866) 760-9255

Email: bole per mile @15ask.ca

Website: www.lsask.ca

## Statutory Declaration (Registration of Fittings)

**Technical** 

	1/1	TSK-1008				
I. Declaration Information						
Vice President, Engineering (company title, e.g. vice president, plant manager, (must be in a position of authority in the manufacturing plant w	In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.					
(name of manufacturer)		77.1				
Iocated at: Headquarters: 29500 Solon Road (Plent Address – Apt/Street) do solemnly declare that the fittings listed hereinunder Vessel Safety Act (check one)	Solon, Ohlo (City, Prov) r, which are subject to the Sasi	44139 USA (Postal Code) katchewan Boiler and Pressure				
Comply with the requirements of ASME B31.1 and ASME B31.3 which specifies the dimensions, (title of recognized North American Standard)  Materials of construction, pressure / temperature ratings and identification marking of the fittings, or						
Are not covered by the provisions of a recogniz to comply with data which identifies the dimensions, materials for such ratings, and the marking of the fittings	of construction, pressure / tem	as supported by the attached				
I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority.  BSI as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category A. Fitting						
In support of this application, the following information, calculations and / or test data are attached:  ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents						
II. Declaration						
Aller miles	n the State , 2019 (Signature)	of Ohio				
III. Office Use Only  To the best of my knowledge and belief, the application mee  CSA B51, Clause 4.2, and is accepted for registration in Ca  CSA - DA 2 1 3 9 5 . 5 (Registration Number)	ets the requirements of the Boiler tegory A 22 2019 (Date Registered - MM DD *****) (For the Admirate acceptable Inspector)	May . 13 . 2027 (Expiry Date - MM DD YYYY)				



Canadian Registration Number Submittal #B-TUBEFIT-2019 Category A: Swagelok Brass Tube Fittings

# Attachment B. Scope of Registration for Swagelok Brass, (ASTM B16 / B283), Tube Fittings (Category A)

This document represents the scope of Swagelok Brass Tube Fittings covered by this submission for CRN approval. These Swagelok Tube Fittings have been evaluated in accordance with ASME B31.3-2016 for unlisted components and ASME B31.1 for unlisted components.

#### **Summary Table**

Product Description Mate	Matarial	Port Connections and	Maximum Allowable Working Pressure		Design Code
	Material	Sizes	Up to 100°F	At maximum temperature	of Construction
Brass C36000 (ASTM B16) Swagelok Gaugeable Tube Fittings and Adapter Fittings  C37700 (ASTM B283) for shaped fittings		Tube fitting1/8" to 1-1/8", 6mm – 28 mm	See below Table	See below Table	
	NPT Male 1/16" - 2"		1100-380 psig @ 400°F	ASME B31.3 (Unlisted Components) ASME B31.1 (Unlisted Components)	
	ISO-7 (tapered)(RT) Male 1/16" – 2"	5500-1900 psig			
	NPT Female 1/16" - 2"		660 - 380 psig @ 400°F		
	ISO-7 (tapered)(RT) Female 1/16" – 2"	3300-1900 psig			
	UN / UNF(SAE) Stud (ST) 1/8" - 2"	2284 – 907 psig	297 - 118 psig @ 400°F		
	Unified (UNJ) (AN) Male 1/8" – 1"	2500–1500 psig	500 - 300 psig @ 400°F	ASME B31.3 (Unlisted Components)	
		Unified (UNJ) (ANF) AN Female 1/8" – 1"	2500–1250 psig	500 - 250 psig @ 400°F	ASME B31.1 (Unlisted Components)





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Category A: Swagelok Brass Tube Fittings



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> SA CSA GROUP

#### Brass Swagelok Tube Fitting Pressure Rating Table

0	Maximum Allowable Working Pressure (1)			
Swagelok End Connection Size	Up to 100°F	B31.3 maximum temperature 350°F	B31.1 maximum temperature 200°F	
1/8	3600 psig	1800 psig	2916 psig	
3/16	3400 psig	1700 psig	2754 psig	
1/4	3500 psig	1750 psig	2835 psig	
5/16	2700 psig	1350 psig	2187 psig	
3/8	2200 psig	1100 psig	1782 psig	
1/2	2100 psig	1050 psig	1701 psig	
5/8	1900 psig	950 psig	1539 psig	
3/4	1800 psig	900 psig	1458 psig	
7/8	1500 psig	750 psig	1215 psig	
1	1500 psig	750 psig	1215 psig	
1 1/8	1200 psig	600 psig	972 psig	
6 mm	220 bar	110 bar	178 bar	
8 mm	160 bar	80 bar	130 bar	
10 mm	130 bar	65 bar	105 bar	
12 mm	140 bar	70 bar	113 bar	
14 mm/	120 bar	60 bar	97 bar	
15 mm	120 bar	60 bar	97 bar	
16 mm	120 bar	60 bar	97 bar	
18 mm	110 bar	55 bar	89 bar	
20 mm	110 bar	55 bar	89 bar	
22 mm	100 bar	50 bar	81 bar	
25 mm	100 bar	50 bar	81 bar	
28 mm	90 bar	45 bar	73 bar	

Note (1): Values based on C37700 / ASTM B283 forgings and thickest wall copper tubing per Swagelok Tubing Data Sheet MS-01-107. Thinner tubing may be used but in all cases the ratings are less than, or equal to, those shown in the table.

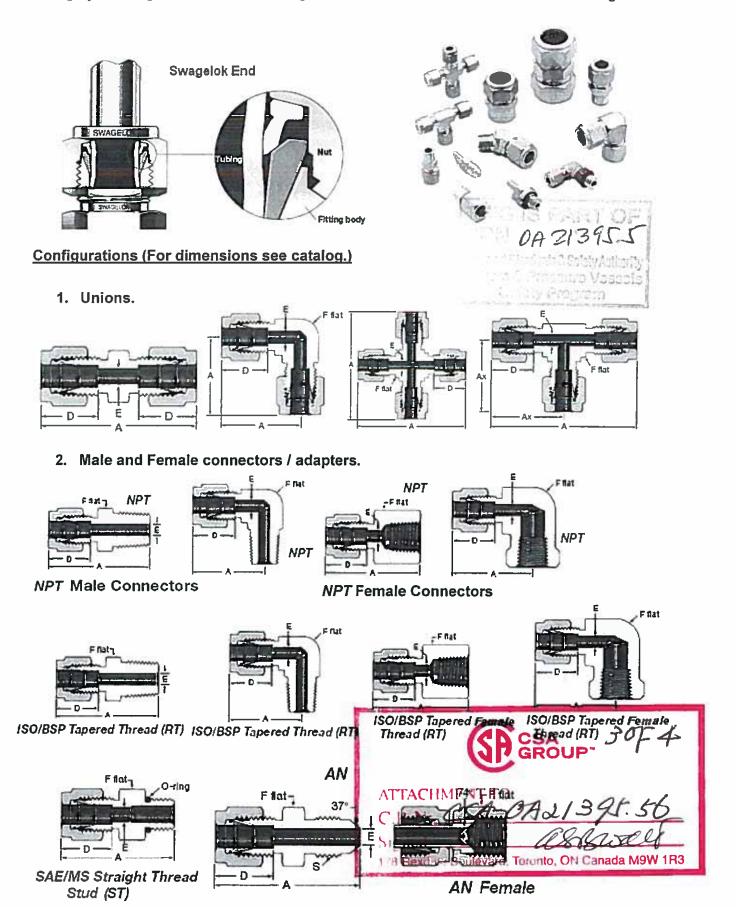
#### **Product Description**

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 a variety of other end connections.

OA 21395-1

Canadian Registration Number Submittal #B-TUBEFIT-2019 Category A: Swagelok Brass Tube Fittings

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Swagelok

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Category A: Swagelok Brass Tube Fittings

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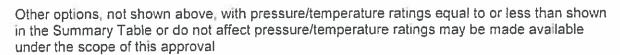


Some of the product options listed below affect the pressure-temperature ratings in the "Scope of Registration" section above, but in all cases the pressure ratings are the same or less than those shown in the table.

- 1. Tapered pipe threads (NPT and ISO-7) 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



#### Quality System

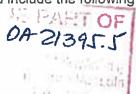
The Swagelok Company quality system complies with the requirements of ISO 9001:2015. The Swagelok Company maintains BSI Registration Number FM 01729, which applies to all locations listed on the Certificate.

#### 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)	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

