



In this space, show facsimile of

## STATUTORY DECLARATION Registration of Fittings

l, J	oel Feldman	, Vice President of Engine	eering	manufacturer's logo or trademark as it will appear on the fitting
of	(name of applicant) Swagelok Company	(position title) (must be in a po	osition of authority)	Swagelok
-		(name of manufacturer)		
loca	ted at 29500 Solon Road, Solo	on, Ohio 44139 USA (see Attachi	ment A)	
	olemnly declare that the fittings	(plant address) listed hereunder, which are sub-	ject to the Safety	Codes Act
$\boxtimes$	comply with the requirement	s of ASME B31.1 and ASME B3 (title of recognized North American		pecifies the dimensions,
	materials of construction, pr	ressure/temperature ratings and	identification mark	king of the fittings, or
	are not covered by the provi	sions of a recognized North Ame	erican standard an	d are therefore manufactured
	to comply with		as	supported by the attached
	(title of o	ode of construction or other applicable d		
	data which identifies the dim	ensions, materials of construction	n, pressure/tempe	erature ratings and the basis
		rking of the fittings for identificati		tern elikeri ( 15 km, v. 🏲 20 km, kurtus elik ter. Jakob 100
l furt	ther declare that the manufactu	re of these fittings is controlled b	y a quality control	program which has been
verif	ied by the following authority, B	ISI	as being suitable	e for the manufacture of
In st	THE STATE OF STREET STATES AND ST	(brief description of fittings)  Blowing information, calculations ament A, Attachment B, Catalog II		
DEC	CLARED before me at	in the State	eof_(	province or state)
(pri	(a Commissioner of Oaths or N	nel		
(sigr	(a Commissioner of Oaths or N	Otary Public)	(signature	of applicant)
For	ABSA Office Use Only:			
NOT	TES:			
To ti Stan	he best of my knowledge and b ndard B51, Clause 4.2, and is a	elief, the application meets the recepted for registration in Categor	equirements of the	Safety Codes Act and CSA
Reg	istration Number: 0 A 2 1	395.52	(Signature of I	he Administrator/SCO)
Date	Registered: 2019-09	8-0/ Expir	y Date: 202	9-05-13
	nformation you provide is necessary only toure Equipment Discipline.	or the administration of the programs as rec	quired by the Alberta Sa	fety Codes Act and Regulations in the



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Category A: Swagelok Brass Tube Fittings

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# 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	n Material	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code
Description or Series			Up to 100°F	At maximum temperature	of Construction
	Brass C36000 (ASTM B16) for straight fittings, hardware	Tube fitting1/8" to 1-1/8", 6mm – 28 mm	See below Table	See below Table	ASME B31.3 (Unlisted Components) ASME B31.1 (Unlisted Components)
		NPT Male 1/16" - 2"	5500-1900 psig	1100-380 psig @ 400°F	
		ISO-7 (tapered)(RT) Male 1/16" – 2"			
SET - 98795		NPT Female 1/16" - 2"	3300-1900 psig	660 - 380 psig @ 400°F	
Swagelok Gaugeable Tube		ISO-7 (tapered)(RT) Female 1/16" – 2"			
Fittings and Adapter		UN / UNF(SAE) Stud (ST) 1/8" - 2"	2284 – 907 psig	297 - 118 psig @ 400°F	
Fittings	C37700 (ASTM B283) for shaped fittings	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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SAFETY CODES ACT - P	ROVINCE OF ALBERTA
REGISTRATION REGISTRATION NO	1 3 9 5 . 5 2
DING NO OF CAT NO ATT	achinent B
TYPE OF FITTINGS Pipe	Fitting
2019-08-01 INITIALS	_ dC
Date	XING LIU, P.Eng. DESIGN SURVEY ENGINEER



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#### Brass Swagelok Tube Fitting Pressure Rating Table

Curamalak Emd	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**

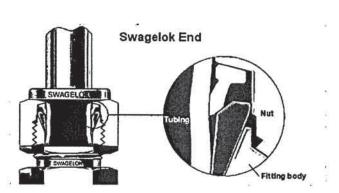
Swagelok Fittings are furnished in a variety of configurations and shapes (straight, elbow, tee or cross). Swagelok Fittings consist of at least one Swagelok End – a proprietary two-ferrule mechanical-grip design. The "Configurations" section covers a variety of other end connections.

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Swagelok

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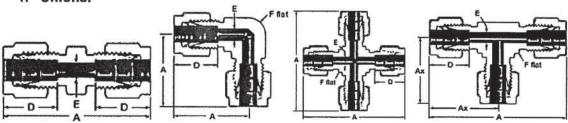
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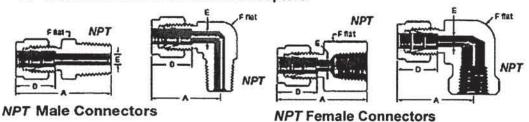


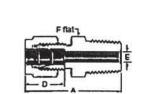
#### Configurations (For dimensions see catalog.)

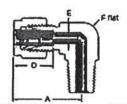
#### 1. Unions.

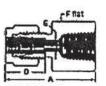


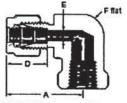
## 2. Male and Female connectors / adapters.







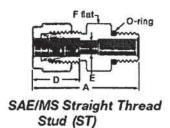


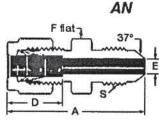


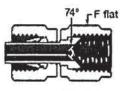
ISO/BSP Tapered Thread (RT) ISO/BSP Tapered Thread (RT)

ISO/BSP Tapered Female ISO/BSP Tapered Female Thread (RT)

Thread (RT)







AN Female

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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 table.

- 1. Tapered pipe threads (NPT and ISO-7) with sealant
  - a. Curable resin with PTFE
  - b. PTFE tape
- 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

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# 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