



In this space, show facsimile of

STATUTORY DECLARATION Registration of Fittings

I, D	avid H. Peace	, Vice Presiden	t of Engineering	as it will appear on the fitting.				
	(name of applicant)	(position title) (mu	ust be in a position of authority)	Swagelok				
of S	Swagelok Company			Owadelok				
looof	ad at 20500 Calan Dand Cal	(name of manufacturer)	44	· · · · · · · · · · · · · · · · · · ·				
locat	ed at 29500 Solon Road, Sol	(plant address)	ee Attachment A)					
	plemnly declare that the fitting ck one)	The second secon	ch are subject to the Safety	Codes Act				
\boxtimes	comply with the requirement	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, p	ressure/temperature ra	tings and identification mark	king of the fittings, or				
	are not covered by the prov	risions of a recognized !	North American standard an	nd are therefore manufactured				
	to comply with	7555	as	supported by the attached				
	(title of	code of construction or other	applicable document)					
	data which identifies the dir	mensions, materials of o	construction, pressure/tempo	erature ratings and the basis				
	for such ratings, and the ma	arking of the fittings for i	dentification.					
I furti	ner declare that the manufacti	ure of these fittings is co	entrolled by a quality control	program which has been				
verifi	ed by the following authority, I	BSI	as being suitable	e for the manufacture of				
these	fittings to the stated standard	The fittings covered in						
	. manga to the otated otanidan	z. The hange covered i	by this decidration, for which	Triscentegistration, are				
Cat	egory A Type Fittings							
25		(brief description of fitting	500					
In su	pport of this application, the fo	ollowing information, cal	culations and/or test data a	re attached:				
ISO	9001:2015 Certificate, Suppo	ort Documents: Attachm	ent B. Catalog Information	Attachment A				
_			and a particular of the partic	7 House Prince 71				
DEC	The state of the s	in the	State of	province or state)				
this	3rd day of	May . a	017	province or state)				
ianter.	The second	(Month)	(Year)					
(prin	Damie L Bi	Jamie L Ristau Resident Portage Co	ounty					
	(a Commissioner of Oaths or N	Notary Public Notary Public, State of My Commission Expires:	of Onio)				
(sign)	James & Rista		WAT !					
(Sign)	(a Commissioner of Oaths or N	lotary Public)	(signature)	of applicant)				
For A	ABSA Office Use Only:	ee Acceptance Letter fo	or the comments					
NOTE		and/or conditions of	registration"					
To th	e best of my knowledge and b	pelief, the application me	eets the requirements of the	Safety Codes Act and CSA				
Stand	dard B51, Clause 4.2, and is a	accepted for registration	in Category A					
Regis	stration Number: 0 A 1 7	712.2	Kerte Rusself	ha Administrate (SCS)				
Date	Registered: JUN 0	9 2017	V	he Administrator/SCO) Sun 09 2027				
The info	ormation you provide is necessary only re Equipment Discipline.	for the administration of the pro						



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Attachment B: Scope of Registration for 316 SS ASME (ANSI) Flange Adapters (Category A)

Product Scope

The table below presents the scope of Swagelok ANSI Flange Adapters with tube connections covered by this submission for CRN approval. The referenced product catalogues do not represent the full scope of the submission but rather detail some of the most common options..

Summary Table

Product	on Material	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code
Description or Series			Up to 100°F	At maximum temperature	of Construction
Swagelok Flange Adapters	F316 SS ASTM A182	Swagelok End Connection 1/16 - 2 inch (Fractional) 3mm - 50 mm (Metric)	As documented in ASME B16.5 Class and pressure ratings. See "Swagelok SS Tube Fitting Pressure Rating Table" on p.2 as the fitting end may be a limiting factor.		ASME B16.5 ASME B31.1 for unlisted components ASME B31.3 for unlisted components

Product Description And Ratings

The Swagelok Flange Fitting body is a combination of a flange end designed and machined to ASME B16.5 dimensions and requirements, and Swagelok's proprietary design tube fitting end which is identical to the design approved in Swagelok SS Tube Fitting CRN 0A12577.5 (0A10622.2 for Alberta). Flange pressure ratings are based on Class and pressure-temperature ratings as documented in ASME B16.5-2013. Actual flange product ratings may be reduced due to the tube fitting end acting as the limiting factor (see table below for Tube fitting pressure ratings)

An example flange adapter section view is shown below. All Swagelok Flange Fitting vall thicknesses are the same or thicker than those noted in the above Swagelok SS Tube Fitting SAFETY CODES ACT - PROVINCE OF ALBERTA REGISTRATION OF FITTINGS

REGISTRATION NO. 0 A 17 7 12 . 2

DWG. NO. or CAT. NO. Attachment B

TYPE OF FITTINGS Flange Adapters

JUN 0 9 2017 INITIALS METHRUDOLF PEng.
DESIGN SURVEY ENGINEER

Swagelok 0A17712.2

Canadian Registration Number Submittal Swagelok Submission #SS-FLANGE-2017 "See Acceptance Letter for the comments and/or conditions of registration"

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Swagelok SS Tube Fitting Pressure Rating Table

Swagelok End	Maximum Allowable Working Pressure (1)			
Connection Size	-60°F to 100°F	At maximum temperature 1000°F (537°C) (2)		
1/16"	12 000 psig	9120 psig		
1/8" 10 900 psig		8284 psig		
3/16"	10 200 psig	7752 psig 7752 psig 6080 psig		
1/4"	10 200 psig			
5/16"	8 000 psig			
3/8"	7500 psig	5700 psig		
1/2"	6700 psig	5092 psig		
5/8"	6000 psig	4560 psig		
3/4"	5800 psig	4408 psig		
7/8"	4800 psig	3648 psig		
1"	4700 psig	3572 psig		
1 1/4"	4900 psig	3724 psig 3724 psig 2736 psig		
1 1/2"	4900 psig			
2"	3600 psig			
3 mm	670 bar	509 bar		
6 mm	710 bar	540 bar		
8 mm	520 bar	395 bar		
10 mm	580 bar	441 bar		
12 mm	470 bar	357 bar		
14 mm	430 bar	327 bar		
15 mm	400 bar	304 bar		
16 mm	400 bar	304 bar		
18 mm	370 bar	281 bar		
20 mm	380 bar	289 bar 258 bar		
22 mm	340 bar			
25 mm	320 bar	243 bar		
28 mm	330 bar	251 bar		
30 mm	310 bar	236 bar		
32 mm	330 bar	251 bar		
38 mm	310 bar	236 bar		
50 mm	270 bar	205 bar		

Note (1): Values based on thickest wall tubing. Thinner tubing may be used but in all cases the ratings are less than, or equal to, those shown in the table.

Note (2): The working pressure ratings for stainless steel Swagelok end connections are based on the allowable working pressure for stainless steel tubing (TP316 A269 listed in ASME B31.3), and are de-rated for use at 1000°F by a derating factor of 0.76 per the Swagelok Tubing Data publication MS-01-107.



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Quality System

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

References

The product catalogs noted below do not represent the full scope of registration, but rather details some of the most common options.

- Flange Adapters MS-02-200
- Tubing Data Sheet MS-01-107

0A17712.2

JUN 0 9 2017

"See Acceptance Letter for the comments and/or conditions of registration"



9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4 Tel: (780) 437-9100 / Fax: (780) 437-7787

June 09, 2017

Attention: Jonathan Seewald

SWAGELOK COMPANY 29500 SOLON ROAD SOLON, OH 44139 Email:Jonathan.Seewald@swagelok.com

The design submission, tracking number 2017-02751, originally received on May 08, 2017 was surveyed and accepted for registration as follows:

CRN: 0A17712.2 **Accepted on:** June 09, 2017

Reg Type: New Design **Expiry Date:** June 09, 2027

Drawing No.: ATTACHMENT B: SCOPE OF REGISTRATION PAGES 1 TO 3

Fitting type: FLANGE ADAPTERS

Design registered in the name of : SWAGELOK COMPANY

The registration is conditional on your compliance with the following notes:

This registration includes fifteen manufacturing locations as per Attachment A.

The scope of this registration is as per Attachment B and includes the material, sizes, and pressure-temperature ratings. The pressure-temperature ratings are further defined in the Code Comparison Summary document.

As indicated on the AB-41 Statutory Declaration form and submitted documentation the codes of construction are ASME B31.1 and B31.3.

This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3344 or fax (780) 437-7787 or e-mail Rudolf@absa.ca.

Sincerely,

RUDOLF, KEITH, P. Eng. SCO Cert. No. D00008862

Neill Rudolf

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