# 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 NAME: Swagelok Company MANUFACTURERS ADDRESS: 29500 Solon Road, Solon, Ohio 44139 USA	
29300 301011 R0au, 301011, Onto 44139 USA	
PLANT LOCATIONS: 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Atta CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ONE CATEGORY ONLY	achment A)
Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expension joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories	ASME B16.5 and ASME B31.3 Chapter IX, for unlisted components where applicable
N Nuclear components: Class 1 □ Class 2 □ Class 3 □, (Meeting AECB or ASME requirements)	
Swagelok	TYPE OF CONSTRUCTION FORGED X WELDED O WROUGHT O CAST O OTHER O DESCRIBE OTHER
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REG	ISTERED:
DECLARATION:    David H. Peace   (see note 3) employed by Swagelok Company   and being responsibility for the quality of the end product do solemnly declare that the information contained	g the person having full authority and
my knowledge represents the product for which registration is sought. The dimensions, materials temperature ratings, and identification markings are in accordance with the herein named standard manufacture of these fittings is regulated by a Quality Control Program which extends to each plan or in part and has been verified by BSI as being suitable for that declaration conscientiously believing it to be true, and knowing that it is of the same force and effect Signature of Declarer:  Declared before me at  AD AD Resident Portage County  Notary Public, State of Ohio OF FICE  Commissioner of Oaths  In Commissioner State of Ohio OF FICE  Resident Portage County  Notary Public, State of Ohio OF FICE  Commissioner of Oaths	in this form is true and to the best of of construction, pressure is. I further declare that the in whole purpose and I may 1
my knowledge represents the product for which registration is sought. The dimensions, materials temperature ratings, and identification markings are in accordance with the herein named standard manufacture of these fittings is regulated by a Quality Control Program which extends to each plan or in part and has been verified by BSI as being suitable for that declaration conscientiously believing it to be true, and knowing that it is of the same force and effect signature of Declarer:  Declared before me at SOLON ONLD lamie L. Ristay S.E. T. H.I.S. This 3rd day of AD AD The Resident Portage County Notary Public, State of ONLO OF F.I.C. Commissioner of Oaths or Notary Public; (sign)	in this form is true and to the best of of construction, pressure is. I further declare that the in whole purpose and I may 1
my knowledge represents the product for which registration is sought. The dimensions, materials temperature ratings, and identification markings are in accordance with the herein named standard manufacture of these fittings is regulated by a Quality Control Program which extends to each plan or in part and has been verified by BSI as being suitable for that declaration conscientiously believing it to be true, and knowing that it is of the same force and effect Signature of Declarer:  Declared before me at  AD AD Resident Portage County  Notary Public, State of Ohio OF FICE  Commissioner of Oaths  In Commissioner State of Ohio OF FICE  Resident Portage County  Notary Public, State of Ohio OF FICE  Commissioner of Oaths	in this form is true and to the best of of construction, pressure is. I further declare that the int where fabrication occurs in whole purpose and I mail in the purpose and I



Canadian Registration Number Submittal Swagelok Submission #SS-FLANGE-2017

# 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...

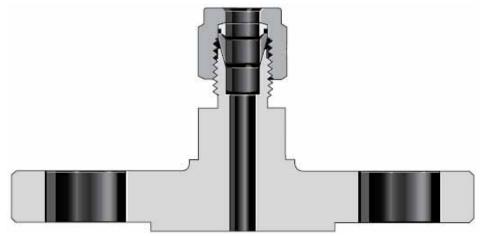
#### **Summary Table**

Product	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 wall thicknesses are the same or thicker than those noted in the above Swagelok SS Tube Fitting CRNs.





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Swagelok SS Tube Fitting Pressure Rating Table

Connection Size 60°E to 100°E At maximum tempera	SS Tube Fitting Pressure Rating Table  Maximum Allowable Working Pressure (1)			
1/8"       10 900 psig       8284 psig         3/16"       10 200 psig       7752 psig         1/4"       10 200 psig       7752 psig         5/16"       8 000 psig       6080 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	At maximum temperature 1000°F (537°C) (2)			
3/16"       10 200 psig       7752 psig         1/4"       10 200 psig       7752 psig         5/16"       8 000 psig       6080 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				
1/4"       10 200 psig       7752 psig         5/16"       8 000 psig       6080 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				
5/16"       8 000 psig       6080 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				
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				
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5/8"       6000 psig       4560 psig         3/4"       5800 psig       4408 psig         7/8"       4800 psig       3648 psig         1"       4700 psig       3572 psig				
3/4"     5800 psig     4408 psig       7/8"     4800 psig     3648 psig       1"     4700 psig     3572 psig				
7/8" 4800 psig 3648 psig 1" 4700 psig 3572 psig				
1" 4700 psig 3572 psig				
1 1/4" 4900 noin 3724 noin				
1/4   4500 psig   5/24 psig				
1 1/2" 4900 psig 3724 psig				
2" 3600 psig 2736 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				
22 mm 340 bar 258 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