



Statutory Declaration Registration of Fittings

(a) Design Qualification

I¹ Joel Feldman
Vice President, Engineering
(Position eg, president, plant manager, chief eng.)

Of Swagelok Company
(name of company)

Located at Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Attachment A)
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

- comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required:
- Or
- are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency BSI

The fittings² covered by this declaration, for which I seek registration, are Category A. Fitting

In support of the 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

Declared before me at _____

In the presence of Unable to get a notary signature
The or seal due to COVID-19 situation _____
A (commissioner for oaths)

DocuSigned by:

11/27/2020 | 7:54 AM EST
C87CBBFFD3F14B7
Signature of Declarer³

For Official Use Only

The application is accepted for registration in Category _____ in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Registered Number CRN _____ For the Chief Inspector _____
Date _____

Régie du bâtiment Québec
 02/17/2021
 Accord de conciliation NEC

- 1 Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.
- 2 All fittings are required to be registered in the name of the Manufacturer.
- 3 This form shall be completed and signed by the president of highest official in the manufacturing plant where the fitting is produced.



Attachment B. Scope of Registration for Swagelok Stainless Steel Pipe Fittings (Category A)

This document represents the scope of Swagelok 316 Stainless Steel Pipe Fittings covered by this submission for CRN approval. These Swagelok 316 Pipe Fittings have been evaluated in accordance with ASME B31.1-2018 for unlisted components and ASME B31.3-2018 for unlisted components.

Summary Table

Product Description or Series	Material (Standard)	Port Connections and Sizes	Maximum Allowable Working Pressure			Design Code of Construction
			Up to 100°F (psig)	At maximum temperature per ASME B31.3 (psig)	At maximum temperature per ASME B31.1 (psig)	
Pipe Fittings (See the Configurations section for size limitations on elbows, tees, crosses, and plugs)	316 SS (ASTM A479) straight fittings	NPT Male standard design 1/16 - 2 inch	11 000 - 3900	8410 - 2980 @1000°F	6210 - 2200 @1000°F	ASME B1.20.1 is listed in both ASME B31.1 and B31.3
		NPT Female, standard design 1/16 - 2 inch	6700 - 3900	5120 - 2980 @1000°F	3780 - 2200 @1000°F	
		NPT Male and Female 10 ksi design 1/4 - 1/2 inch	10 000	7650 @1000°F	5650 @1000°F	
		NPT Male Hollow Hex Plug Design 1/8 - 1/2 inch	6600 - 4900	3720 - 2760 @1000°F	5040 - 3740 @1000°F	
		ISO-7 (tapered) (RT) Male 1/16 - 2 inch	11 000 - 3900	8410- 2980 @1000°F	6210 - 2200 @1000°F	Unlisted Component in both ASME B31.1 and ASME B31.3
		ISO-7 (tapered) (RT) Female 1/16 - 2 inch	6700 - 3900	5120 - 2980 @1000°F	3780 - 2200 @1000°F	
		ISO-7 tapered (RT) Male Hollow Hex Plug 1/8-1/2 inch	6600 - 4900	3720 - 2760 @1000°F	5040 - 3740 @1000°F	
	F316 SS (ASTM A182) shaped fittings	NPT Male and Female standard design 1/8 - 1 inch	5000 - 4000	3820 - 3060 @1000°F	2820 - 2260 @1000°F	ASME B1.20.1 is listed in both ASME B31.1 and B31.3
		ISO-7 (tapered) (RT) Male and Female 1/8 - 1 inch	5000 - 4000	3820 - 3060 @1000°F	2820 - 2260 @1000°F	Unlisted Component in both ASME B31.1 and ASME B31.3
	316 SS (ASTM A479) straight fittings	ISO/BSP (parallel) RS Male 1/8-1 inch	5800 - 3620 with FKM bonded gasket*	5800 - 3620 @400°F with FKM bonded gasket*	5800 - 3620 @400°F with FKM bonded gasket*	Unlisted Component in both ASME B31.1 and ASME B31.3
ISO/BSP (parallel) AG (RG) Female 1/4 - 1/2 inch		4063 with copper gasket*	4063 @400°F with copper gasket*	4063 @400°F with copper gasket*		
UN/UNF(SAE) ST Male Stud & Female 1/8 - 1-1/2 inch		5076 - 2538*	5076 - 2538 @400°F*	5076 - 2538 @400°F*		
Union Ball Joint (UBJ with Female NPT) 1/8 - 1 inch		8400 - 4600	6426 - 3519 @1000°F	4746 - 2599 @1000°F		
UNJ (JIC) AN Male & Female 1/4 - 1 inch		10 000 - 5000	7600 - 3800 @1000°F	5600 - 2800 @1000°F	SAE J514 listed in ASME B31.3, unlisted in ASME B31.1	

*Pressure rating is gasket-dependent or O-Ring dependent

Product Description

Swagelok Pipe Fittings are furnished in a variety of configurations and shapes (straight, elbow, tee or cross). The table above, as well as the "Configurations" section, covers a variety of other end connections.



Configurations

1. Nipples. (Close, Hex, Adapter, Reducing, Long)

Male NPT, adapting to RT (ISO Taper), RS (ISO/BSP Parallel), ST (SAE), and reducing to other sizes



2. Male and Female Adapters / Couplings / Reducers

Male and Female NPT, adapting to RT (ISO Taper), AG/RG (ISO/BSP Parallel), RS (ISO/BSP Parallel), ST (SAE), AN (JIC) and reducing to other sizes

Male and Female ST (SAE), adapting to AN (JIC) and reducing to other sizes



3. Elbows / Street Elbows / Tees / Street Tees / Crosses

Male and Female NPT, and reducing to other sizes

Elbows, Tees and Crosses are limited to a maximum size of one-inch in stainless steel.



4. Union Ball Joints

With Female NPT connections



5. Caps and Plugs

Male NPT, RT (ISO Taper), ST (SAE)

Male NPT and RT Hollow Hex Plugs limited to a range of 1/8 inch to 1/2 inch.



(For dimensions see catalog.)

Product Options:

The product options listed below affect pressure and/or temperature ratings shown in the above Summary Table, but in all cases the ratings are less than, or equal to, those shown in the table.

1. RS gaskets:
 - a. Metal-and-elastomer bonded
 - b. Non-bonded stainless steel
 - c. Copper
2. RG gaskets:
 - a. Copper
 - b. Nickel
 - c. PTFE
3. Sealant for tapered pipe threads (NPT and ISO-7):
 - a. Curable resin with PTFE
 - b. PTFE tape

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. Special long fitting lengths
5. Snubbers/frits and orifice plates
6. Equivalent metric or fractional hex sizes

All the above product options are within 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 Certificate of 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.

- Pipe Fittings MS-01-147, 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 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA	Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 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) 29900 Solon Industrial Parkway Solon, Ohio 44139	Swagelok Company (Strongsville) 15400 Foltz Road 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

