

TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON M9W 6N9

Date: May 25, 2020
Account #: 35231
Journal #: 75832

Attn: CECYLIA GARBACZ

Re: Application for Design Registration

The design, as detailed in your, CRN# 0A22391.5, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY **CRN:** 0A22391.51

Drawing #: Scope of Registration

Drawing Revision: N/A

Conditions Of Registration:

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Scope of Registration: Swagelok Stainless Steel Industrial Weld Fittings-Attachment A and B

Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on 04-May-2030. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in TSSA CRN# 0A22391.5 registration shall apply to BC registration.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

Janina Mihailescu

janina.mihailescu@technicalsaftybc.ca
Design Administration

cc:



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DECLARATION Registration of Fittings

I, Joel Feldman, Vice President of Engineering
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Swagelok Company
(Name of Manufacturer)

Located at 29500 Solon Road, Solon, Ohio 44139 USA (440) 248-4600 (440) 349-5970
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.1 for unlisted components, and ASME B31.3 for unlisted components
(Title of recognized North American Standard)
 which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, BSI

The items covered by this declaration, for which I seek registration, are category A. Fittings type fittings. In support of this application, the following information and/or test data are attached as follows:
ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents
(drawings, calculations, test reports, etc.)

Declared before me at Solon in the state of Ohio
 the 18th day of March AD 2020.

Commissioner for Oaths:
Brenda Hammel
(Printed name)
Brenda Hammel
(Signature)

[Signature]
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category A.

CRN: 0A22391.5
 Registered by: [Signature]
 Dated: MAY 4, 2020



For scope of registration see stamped attachment A and B.

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0A22391.5

Signed: [Signature]

Date: May 4, 2020.

NOTE: This registration expires on: MAY 4, 2030

**Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*

Original signed and notarized Statutory Declaration has been verified. May 4, 2020. TSSA

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

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

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Summary Table

Product Series / Description	Material (Standard)	Connections and Sizes (Inch)	Maximum Working Pressure (psig)		Design Code of Construction
			Up to 100°F	At maximum temperature 1000°F	
MPW (male pipe butt weld)	316 SS (ASTM A479) For straight fittings	MPW Adapter Ends and Connector Ends (1/4" - 1")	10 300 - 6000	5768 - 3360	ASME B31.1 (Unlisted Components)
PSW (pipe socket weld)		PSW Unions, Adapter Ends and Connector Ends (1/4" - 1")	8100 - 6100	4536 - 3416	
TSW (tube socket weld)	F316 SS (ASTM A182) For shaped fittings	TSW Unions, Adapter Ends and Connector Ends (1/4" - 1")	10 700 - 5300	5992 - 2968	ASME B31.3 (Unlisted Components)
MTW (male tube butt weld)		MTW Adapter Ends and Connector Ends (1/4" - 1")	11 200 - 5300	6272 - 2968	

Product Description

Swagelok Weld Fittings are furnished in a variety of configurations - Male Pipe Weld (MPW), Pipe Socket Weld (PSW), Tube Socket Weld (TSW) and Male Tube Weld (MTW) – straight fittings and shapes (elbows, tees or crosses). Swagelok Weld Fittings consist of at least one weld end and a variety of other end connections as noted in the Weld Fitting catalog. The table above, as well as the “Configurations” section below, cover a variety of combinations.

Configurations

1. Unions.



Male pipe weld to Tube socket weld or Male tube weld to Tube socket weld



Tube socket weld union or Pipe socket weld



Tube socket weld union elbow



Tube socket weld union tee



Tube socket weld union cross

2. Male and Female connectors / adapters



Tube socket weld to male NPT connector



Tube socket weld to female NPT connector



Tube socket weld to male NPT elbow



Tube socket weld to female NPT elbow

(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. Sealant for tapered pipe threads (NPT and ISO-7):
 - a. Curable resin with PTFE
 - b. PTFE tape

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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

All the above options, those that affect pressure and/or temperature ratings and those that do not, 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 listed below does not represent the full scope of the registration but rather details some of the most common options.

- Weld Fittings, Ultra High Purity, Special Cleaned and Industrial MS-01-149 Rev. O

Attachment A. Swagelok Manufacturing Locations

This document lists the Swagelok locations where end item or component level manufacturing activities take place.

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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