

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

**Date:** August 4, 2020  
**Account #:** 35231  
**Journal #:** 76171

**Attn:** TSSA

**Re:** Application for Design Registration

The design, as detailed in your, 0A22505.5, for a Fitting is accepted for registration as follows:

**Registered To:** SWAGELOK COMPANY                      **CRN:** 0A22505.51

**Drawing #:** Scope 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.

**Reviewer's Notes:**

As required by CSA B51 4.2.1, this registration expires on 17-Jun-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# 0A22505.5 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

Swagelok

## 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 18<sup>th</sup> day of March AD 2020.

Commissioner for Oaths:

Brenda Hammel  
(Printed name)

Brenda Hammel  
(Signature)

Joel Feldman  
(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: 0A22505.5

Registered by: [Signature]

Dated: JUNE 17, 2020



This Document has been digitally signed. The stamp size has been optimized for 11 x 17 documents

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

REGISTERED

CRN.: DA22505.5

Signed: [Signature]

Date: June 17, 2020.

**NOTE: This registration expires on: JUNE 17, 2030**

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

**FOR SCOPE OF REGISTRATION SEE STAMPED ATTACHMENT A AND B**



THIS IS PART OF CRN  
0A22505.5

Canadian Registration Number Submittal  
Category A: Swagelok Brass Pipe Fittings

Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety  
Program

Date: March 13, 2020  
Page 1 of 2

## Attachment B. Scope of Registration for Swagelok Brass Pipe Fittings (Category A)

This document represents the scope of Swagelok Brass Pipe Fittings covered by this submission for CRN approval. These Swagelok 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	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code of Construction
			Up to 100°F	At maximum temperature	
Pipe Straight Fittings (includes pipe plugs and pipe caps)	Brass C36000 (ASTM B16) Bar	Male NPT & Male ISO-7 (tapered) (RT) 1/16 – 2 inch	5500 - 1900 psig	718 - 248 psig @400°F	ASME B31.3 (Unlisted Components)
		Female NPT & Female ISO-7 (tapered) (RT) 1/16 – 2 inch	3300 - 1900 psig	431 - 248 psig @400°F	
		Male NPT & Male ISO-7 (tapered) (RT) 1/16 – 2 inch	5500 - 1900 psig	4950 - 1710 psig @200°F	ASME B31.1 (Unlisted Components)
		Female NPT & Female ISO-7 (tapered) (RT) 1/16 – 2 inch	3300 - 1900 psig	2970 - 1710 psig @200°F	
Pipe Shaped Fittings (See the Configurations section for size limitation on crosses.)	Brass C37700 (ASTM B283) Forging	Male NPT & Male ISO-7 (tapered) (RT) 1/8 – 1 inch	2700 - 2100 psig	352 - 274 psig @400°F	ASME B31.3 (Unlisted Components)
		Female NPT & Female ISO-7 (tapered) (RT) 1/8 – 1 inch	2700 - 2100 psig	352 - 274 psig @400°F	
		Male NPT & Male ISO-7 (tapered) (RT) Male 1/8 – 1 inch	2700 - 2100 psig	2430 - 1890 psig @200°F	ASME B31.1 (Unlisted Components)
		Female NPT & Female ISO-7 (tapered) (RT) 1/8 – 1 inch	2700 - 2100 psig	2430 - 1890 psig @200°F	

## Product Description

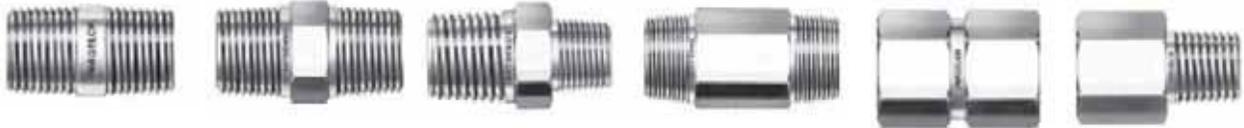
Swagelok Pipe Fittings are furnished in a variety of configurations and shapes (straight, elbow, tee or cross).



## Configurations

### 1. Nipples, Adapters, Couplings, Reducers

Male & Female NPT, Male & Female RT (ISO Taper), adapters and reducing to other sizes



### 2. Elbows / Street Elbows / Tees / Street Tees / Crosses

Male and Female NPT, Male & Female RT (ISO Taper), adapters and reducing to other sizes.

Elbows and Tees are limited to a maximum size of one-inch in brass.

Crosses are limited to a maximum size of three-quarter-inch in brass.



### 3. Caps and Plugs

Male NPT, RT (ISO Taper)



## Product Options:

The sealant options for tapered pipe threads (NPT and ISO-7), such as curable resin with PTFE and PTFE tape, affect pressure and/or temperature ratings shown in the above Summary Table, but the ratings with these options are less than or equal to those shown in the table.

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. Snubbers and orifice plates

All of the options noted above 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 Catalog MS-01-147, Rev. P

## **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