



the pressure equipment safety authority

9410 - 20 Ave N.W.

Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

August 04, 2016

Attention: Tanya Francis
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

The design submission, tracking number 2016-03927, originally received on July 15, 2016 was surveyed and accepted for registration as follows:

CRN : 0A18544.52

Accepted on: August 04, 2016

Reg Type: New Design

Expiry Date: June 22, 2026

Drawing No. : ATTACHMENT B – SCOPE OF REGISTRATION

Fitting type: STH (SAE/MS) TUBE FITTINGS

Design registered in the name of : SWAGELOK COMPANY

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

TSSA Service Request No.: 1902958

This registration includes fifteen manufacturing locations as per Attachment A.

The scope of this registration is as per Attachment B which includes the sizes and pressure/temperature ratings of the fittings.

This registration has been issued based on:

- 1. TSSA's review, and*
- 2. The Association of Chief Inspectors Policy on Reciprocal Recognition of Design Review.*

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.

Enclosed are stamped prints for your reference.

Sincerely,

RUDOLF, KEITH, P. Eng.



STATUTORY DECLARATION
Registration of Fittings

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

Swagelok

I, David H. Peace,

Vice President of Engineering

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Swagelok Company

(name of manufacturer)

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 Safety Codes Act (check one)

comply with the requirements of ASME B31.3 Chapter IX which specifies the dimensions, (title of recognized North American Standard)

materials of construction, pressure/temperature ratings and identification marking of the fittings, 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, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, BSI as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category "A" Type Fittings

In support of this application, the following information, calculations and/or test data are attached:

ISO 9001:2008 Certificate, Sales Drawings and other Support Documents, Attachment B, Attachment A

DECLARED before me at Solon in the State of Ohio

this 07th day of June, 2016
(Month) (Year)

(print) Jamie L Ristau

Jamie L. Ristau
Resident Portage County
Notary Public, State of Ohio

[Signature]
(Signature of Applicant)

(sign) Jamie L Ristau
(A Commissioner for Oaths)

My Commission Expires: 03/06/2019

For Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category A

Registration Number: 0A18544.52

[Signature]
(For the Administrator/Chief Inspector of Alberta)

Date Registered: AUG 04 2016

Expiry Date: Jun 22 2026



the pressure equipment safety authority

STATUTORY DECLARATION
Registration of Fittings

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting. Swagelok

I, David H. Peace, Vice President of Engineering (company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority) of Swagelok Company (name of manufacturer)

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 Safety Codes Act (check one)

- comply with the requirements of ASME B31.3 Chapter IX which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, 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, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, BSI as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category "A" Type Fittings

In support of this application, the following information, calculations and/or test data are attached: ISO 9001:2008 Certificate, Sales Drawings and other Support Documents, Attachment B, Attachment A

DECLARED before me at Solon in the State of Ohio this 07th day of June, 2016 (Month, Year) (print) Jamie L Ristau (Signature of Applicant) (sign) Jamie L Ristau Notary Public, State of Ohio My Commission Expires: 03/06/2019

For Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category A Registration Number: 0A78544.52 Date Registered: AUG 04 2016 (For the Administrator/Chief Inspector of Alberta) Expiry Date: Jun 22 2026

Attachment B. Scope of Registration for Swagelok Tube Fittings to SAE MS Ends (Category A)

Product Scope

This document represents the scope of Swagelok 1/2" and 3/4" Tube Fittings with 1/2" Medium Pressure SAE/MS ends, covered by this submission for CRN approval. The Medium Pressure Fittings have been evaluated in accordance with ASME B31.3 for unlisted components and ASME B31.1 for unlisted components.

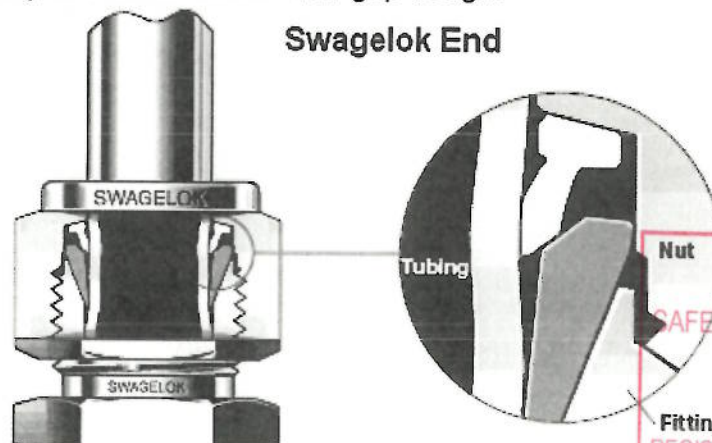
Summary Tables

Product Description or Series	Material	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code of Construction
			Ambient temperature	At maximum temperature	
Tube fitting*	316 Stainless Steel (ASTM A479)	Tube Fitting, Tube Adapter 1/2"	6,700 PSI	5,092 PSI @ 1000°F	ASME B31.3 (Unlisted Components)
		Tube Fitting, Tube Adapter 3/4"	5,800 PSI	4,408 PSI @ 1000°F	ASME B31.1 (Listed Components)

* Note: 1/2" SAE MS port connection rated at 9,137 psi at ambient temperature according to SAE J1926-2, Rev. MAR2010. The tube fitting port connections are thus considered the limiting factor.

Product Description

Swagelok SAE / MS Medium Pressure Fittings coupled with the tube fittings identified above are furnished as straight shaped fittings. Swagelok Tube Fittings consist of at least one Swagelok End – a proprietary two-ferrule mechanical-grip design.



ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
REGISTRATION OF FITTINGS

Fitting body REGISTRATION NO. 0A18544.52

DWG. NO. or CAT. NO. Attachment B

TYPE OF FITTINGS Tube Fittings

Date AUG 04 2016 INITIALS Keith Rudolf

KEITH RUDOLF, P.Eng.
DESIGN SURVEY ENGINEER

Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. Swagelok Company maintains BSI Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate.

References

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

- Medium and High Pressure Valves, Fittings and Tubing Catalog MS-02-472
- Gaugeable Tube Fittings and Adapter Fittings MS-01-140
- Tubing Data Sheet MS-01-107