



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, James Nordholt, 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

(Plant Address)

(440) 248-4600

(Telephone No.)

(440) 349-5970

(Fax No.)

☒ I 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 type fittings. In support of this application, the following information and/or test data are attached as follows:

ISO: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 24 day of MARCH AD 20 25.

Commissioner for Oaths:

JEFFREY C TRUMBULL

(Printed name)

[Signature]
(Signature)



JEFFREY C. TRUMBULL
Notary Public
State of Ohio
Recorded in Lake County
Certificate # 2020-RE-813893
My Commission Expires
April 15, 2025

[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 _____.

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: _____



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

Attachment B. Scope of Registration for Swagelok PFA Tube Fittings (Category A)

This document represents the scope of Swagelok PFA Tube Fittings covered by this submission for CRN approval. These Swagelok PFA Tube Fittings have been evaluated in accordance with ASME B31.1-2024 for unlisted components and ASME B31.3-2024 for unlisted components.

Summary Table

The following table outlines key technical data for the products in scope of this application. Also included are standards for the materials of construction of PFA Tube Fittings.

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections and Sizes	Maximum Allowable Working Pressure (See Note 1 & 2)		Design Code of Construction
				At Ambient Temperature (70°F)	At Maximum Temperature (400°F)	
PFA-220	Body	PFA 440-HP (ASTM D3307, Type 1)	PFA Tube Fitting 1/8"	150 psi	27 psi	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
PFA-420	Body	PFA 440-HP (ASTM D3307, Type 1)	PFA Tube Fitting 1/4"	150 psi	27 psi	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
PFA-620	Body	PFA 440-HP (ASTM D3307, Type 1)	PFA Tube Fitting 3/8"	125 psi	11 psi	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
PFA-820	Body	PFA 440-HP (ASTM D3307, Type 1)	PFA Tube Fitting 1/2"	80 psi	6 psi	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

Notes:

- (1) The maximum allowable working pressures in the above table are for Swagelok PFA tube fittings used with properly grooved Swagelok PFA tubing.
- (2) The maximum allowable working pressures in the above table are based on the highest pressure attained in hydrostatic burst pressure tests divided by ten. The Technical Standards and Safety Authority (TSSA) requires a 10-to-1 factor of safety for non-metallic components made with a non-automated fabrication process (TSSA Fitting Registration Guidelines – January 2023, Appendix "D"). The CRN pressure ratings are set to meet the TSSA requirement and are different than those shown in the current catalog.



Product Description

Swagelok PFA Tube Fittings are furnished in a variety of configurations and shapes (straight, elbow, or tee). Swagelok PFA Tube Fittings consist of at least one Swagelok Tube Fitting End, which have two-ferrule mechanical-grip design and should be assembled with properly grooved Swagelok PFA tubing. The Swagelok tube fitting end is a proprietary design, and the assembly consists of a body, nut, front and back ferrule.



Product Options:

The product options listed below do not affect the pressure-temperature ratings shown in the Summary Table and are within the scope of this registration.

- Caps and Plugs

Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2015. The Swagelok Company maintains British Standards Institution (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.

- PFA Tube Fittings MS-01-05, Rev J (October 2021)

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 (HPF) 6050 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 USA
Swagelok Precision Machining Services 1924 East 337th Street Eastlake, OH 44095 USA	Swagelok (China) Fluid System Technologies Ltd. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Strongsville) 15400 Foltz Road Strongsville, Ohio 44119
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139
Swagelok Company (Micro) 26653 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Hose Services Company (SHSC) 29900 Solon Industrial Parkway Solon, Ohio 44139
Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man
Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Valley City) 5370 Wegman Drive Valley City, Ohio 44280 USA