

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick Nova Scotia Prince Edward Island Newfoundland and Labrador
Nunavut Yukon Northwest Territories

Manufacturers Name: <u>Swagelok Company</u>	
Manufacturers Address: <u>29500 Solon Road, Solon, Ohio 44138 USA</u>	
Plant Locations, Headquarters: <u>29500 Solon Road, Solon, Ohio 44138 USA (See Attachment A)</u>	
Category of Fittings to be registered. Circle one Category only ☒ A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers ☐ B Flanges: all flanges ☐ C Valves: all line valves ☐ D Expansion joints, flexible connections, and hose assemblies: all types ☐ E Strainers, filters, separators, and steam traps ☐ F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters ☐ G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs ☐ H Pressure retaining components that do not fall into one of the above categories ☐ N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)	Title of the Standard of Construction ASME B31.1 for unlisted components ASME B31.3 for unlisted components
Show Manufacturers Name, Trademark, or Logo as it will appear on the product 	Type of Construction Forged ☐ Welded ☐ Wrought ☐ Cast ☐ Other ☐ Describe other: Injection Molded
List of supporting documentation and identification of the actual items to be registered: ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents.	

Declaration:
 I, James Norrish (see note 3) employed by Swagelok Company and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by QA as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]
 Declared before me at SOLON STATE OF OHIO
 This 24 day of MARCH AD 2025
 Commissioner of Oaths
 Or Notary Public: (sign) [Signature]
 (Affix Official seal to the right)



JEFFREY C. TRUMBULL
 Notary Public
 State of Ohio
 Commission # 2020-RE-813683
 My Commission Expires
 April 15, 2025

CRN: <u>0A6054.5R3</u> FID#: <u>1214</u> Notes: 1. All Fittings shall be registered in the name of the Manufacturer. 2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality Control programs shall be resubmitted for validation. 11/2016	This space for Regulatory Authority Use This registration must be revalidated after ten (10) years from the date of acceptance. Registered <u>0A6054.5R3</u> Date <u>May 16, 2025</u> Engineering and Inspection Services Registered by <u>[Signature]</u> UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS Sect 1.0 - Fittings Rev.2
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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