# 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: Swagclok Company MANUFACTURERS ADDRESS: 29500 Solon Road, Solon, Ohio 44139 USA PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Attachment A) CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ONE CATEGORY ONLY TITLE OF THE STANDARD OF CONSTRUCTION A) Pipe fittings, including couplings, tees, elbows, Ys, plugs, unlons, pipe caps, or reducers B Flanges: all flanges ASME B31.1 for C Valves: all line valves unlisted components. 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 ASME B31.3 for unlisted components G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on bollers, 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 AECB or ASME requirements) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONDITION CED X WELDED II WROUGHT X 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: [Joel Feldman, Vice President, Engineering (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 and 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 as being suitable for that purpose and I make this solemn or in part and has been verified by BSI 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: USETHIS SPACE FOR Declared before me at day of C OFFICIAL Commissioner of Oaths or Notary Public: (sign) DTH (Affix Official seal to the right) This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptant PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND & ENVIRONMENT 0 A 2 2 2 12. TITANIUM GRY TUBEFITTINGS UPTO 9100 BIG 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 DATE:

responsibility for the quality of the end product,

I a maximum interval of five (5) years.
RN EXPIRES MARCH

4. Quality control programs shall be resubmitted for validation

2030- D.G.

INSPECTION SERVICES SECTION

BOILER/PRESSURE VESSEL BRANCH

# Attachment B. Scope of Registration for Swagelok Titanium, Grade 4 (ASTM B348, B381) Tube Fittings (Category A)

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

#### **Summary Table**

Product Description or Series	Material (Standard)	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code
			Up to 100°F	At maximum temperature	of Construction
Gaugeable Tube Fittings and Adapter Fittings	Titanium Grade 4 (ASTM B348/ ASTM B381)	Swagelok End Connection 1/4 inch - 1/2 inch 6mm, 10mm, 12mm	See Table below	See Table below	ASME B31.3 (Unlisted Components) ASME B31.1 (Unlisted Components)
		NPT Male 1/16 - 1 inch	8800 - 4200 psig	3520 - 1680 psig @ 600°F (315°C)	
		NPT Female 1/16 - 1 inch	5300 - 3500 psig	2120 – 1400 psig @ 600°F (315°C)	

# Titanium Swagelok Tube Fitting Pressure Rating Table

S	4000MARKOLD WEST DUDGES 1917 AND 12	cimum Allowable Pressures	ASME B31.3 Maximum Allowable Working Pressures	
Swagelok End Connection Size	Up to 100°F	At maximum temperature 600°F (315°C)	Up to 100°F	At maximum temperature 600°F (315°C)
1/4 inch	7735 psig	3480 psig	9100 psig	4095 psig
3/8 inch	4930 psig	2218 psig	5800 psig	2610 psig
1/2 inch	3570 psig	1606 psig	4200 psig	1890 psig
6 mm	510 bar	229 psig	600 bar	270 psig
10 mm	289 bar	130 psig	340 bar	153 psig
12 mm	238 bar	107 psig	280 bar	126 psig

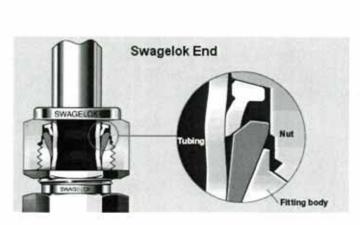




Rev. February 6, 2020 Page 2 of 3

# **Product Description**

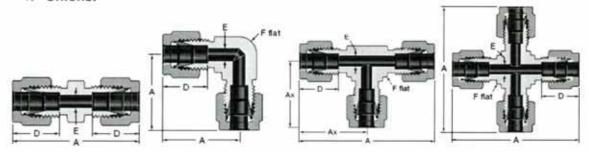
Swagelok Fittings are furnished in a variety of configurations and shapes (straight, elbow, tee or cross). Swagelok Fittings consist of at least one Swagelok End – a proprietary two-ferrule mechanical-grip design. The table below, as well as the "Configurations" section, covers a variety of other end connections.



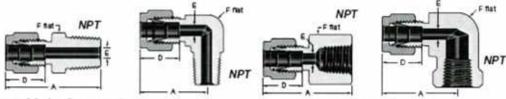


### Configurations

## 1. Unions.



# 2. Male and Female connectors / adapters.



**NPT Male Connectors** 

**Female Connectors** 







Rev. February 6, 2020 Page 3 of 3

#### **Product Options:**

Some of the product options listed below affect the pressure-temperature ratings in the "Scope of Registration" section above, but in all cases the pressure ratings are the same or less than those shown in the table on page 1.

- · Sealant for NPT pipe threads:
  - Curable resin with PTFE
  - PTFE tape
- Bored through fittings
- Plastic ferrules, (Nylon, Teflon, PEEK)

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:

- Special marking
- Special cleaning
- Wire drills
- bulkhead configurations
- · Snubbers/frits and orifice plates

All of 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. 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.

- Gaugeable Tube Fittings and Adapter Fittings MS-01-140, Rev Y
- Swagelok Tubing Data Sheet MS-01-107, Rev N



# Attachment A. Swagelok Manufacturing Locations

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

Swagelok Company	Swagelok Company (Falon 1)		
29500 Solon Road	348 Bishop Road		
Solon, Ohio 44139	Highland Heights, Ohio 44143		
USA	USA		
Swagelok Company (Highland)	Swagelok Company (Falon 2)		
318 Bishop Road	358 Bishop Road		
Highland Heights, Ohio 44143	Highland Heights, Ohio 44143		
USA	USA		
Swagelok Company (OFC)	Swagelok Company (HPF)		
29495 F.A. Lennon Drive	6050 Cochran Road		
Solon, Ohio 44139	Solon, Ohio 44139		
USA	USA		
Swagelok Company (Atlantic)	Swagelok Company (Snow Metal)		
26651 Curtiss Wright Parkway	6060 Cochran Road		
Willoughby Hills, Ohio 44092	Solon, Ohio 44139		
USA	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)	Swagelok Company (Strongsville)		
29900 Solon Industrial Parkway	15400 Foltz Road		
Solon, Ohio 44139	Strongsville, Ohio 44119		
Swagelok (China) Fluid System Technologies Ltd.	Swagelok Company A.G. (European Technolog		
Changshu Export Process Zone	Center)		
Changshu Economic Development Zone	St. GallerstraBe 84		
Changshu, Jiangshu	Lachen, Switzerland 8853		
215513 China	Switzerland		
Swagelok Limited Tromode IM4 4RA Isle of Man			

