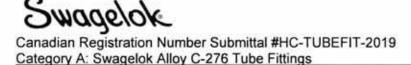
# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK NUNAVUT NOVA SCOTIA YUKON PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Swagelok Company	
MANUFACTURERS ADDRESS: 29500 Solon Road, Solon, Ohio 4413	39 USA
PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon, Ohio	
CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ONE CAT	EGORY ONLY TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including couplings, tees, ellows, Ys, plugs, unions, pipe caps, o	reducers ASME B31.1 for
8 Flanges: ell fianges C Valves: all fine valves	unlisted components.
D Expansion joints, flexible connections, and hose assemblies: gill types	ASME B31.3 for
E Strainers, filters, separators, and steam traps	
<ul> <li>Measuring devices, including pressure pauges, level gauges, sight plasses, le pressure transmitters</li> </ul>	
G Certified expectly-rated pressure relief devices acceptable as parmary over pre- bollers, pressure vessels, piping and fusible plugs	ssuré protection on
Pressure retaining components that do not fall into one of the above categorie	M PG
N Nucleer components: Class 1 D Class 2 D Class 3 D, (Meeting AECB or A	
HOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPL	FAR ON THE PRODUCT TYPE DE CONSTRUCTION
0	CAST D OTHER D
Sugaralala	DESCRIBE OTHER
Swagelok	
IST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE AS	TUAL ITEMS TO BE REGISTERED:
ISO 9001:2015 Certificate, Attachment A. Attachment B. Catalog Inform	ation and other Support Documents
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Revised February 6, 2020 Page 1 of 3

# Attachment B. Scope of Registration for Swagelok Alloy C-276 (ASTM B564, B574) Tube Fittings (Category A)

This document represents the scope of Swagelok Alloy C-276 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**

Description	Material	Port Connections and Sizes	Maximum Allowable Working Pressure		Design Code
	(Standard)		Up to 100°F	At maximum temperature	of Construction
Gaugeable Tube Fittings and Adapter Fittings	Alloy C276 (ASTM B564 / ASTM B574)	Swagelok End Connection 1/4 inch – 1/2 inch 6mm - 12mm	See Table below	See Table below	ASME B31.3 (Unlisted Components) ASME B31.1 (Unlisted Components)
		NPT Male 1/16 - 1 inch	11 000 – 5300 psig	9020 - 4350 psig @ 1000°F (537°C)	
		NPT Female 1/16 - 1 inch	6700 – 4400 psig	5500 - 3610 psig @ 1000°F (537°C)	

# Alloy C-276 Swagelok Tube Fitting Pressure Rating Table

	Maximum Allowable Working Pressure		
Swagelok End Connection Size	Up to 100°F	At maximum temperature 1000°F (537°C)	
1/4 inch	10 200 psig	7752 psig	
3/8 inch	6500 psig	4940 psig	
1/2 inch	5100 psig	3876 psig	
6mm	670 bar	509 bar	
10mm	380 bar	289 bar	
12mm	310 bar	235 bar	



### **Product Description**

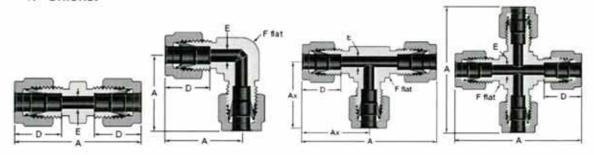
Swagelok Fittings are furnished in a variety of configurations and shapes (straight, elbow, tee or cross). Swagelok Fittings consist of at least one Swagelok End – a proprietary two-ferrule mechanical-grip design. The table below, as well as the "Configurations" section, covers a variety of other end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



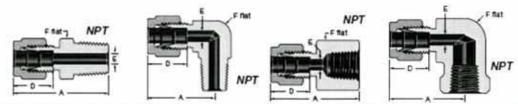


## Configurations

#### 1. Unions.



## 2. Male and Female connectors / adapters.



**NPT Male Connectors** 

**Female Connectors** 



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#### **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 Summary Table on page 1.

- · Sealant for NPT pipe threads -
  - Curable resin with PTFE
  - o 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 Technology
Changshu Export Process Zone	Center)
Changshu Economic Development Zone	St. GallerstraBe 84
Changshu, Jiangshu	Lachen, Switzerland 8853
215513 China	Switzerland
Swagelok Limited Tromode M4 4RA sle of Man	

