# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK NUNAVUT

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PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Swagelok Company	
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PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA  GATEGORY OF FITTINGS TO BE PEGISTERED, CHOICE OF THE SOLON OF FITTINGS TO BE PEGISTERED.	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	Attachment A)
A Pipe fittings, including couplings, lees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all flanges D Expansion joints, flaxible 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 C Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on bollers, pressure vessets, piping and fusible plugs H Pressure retaining components that do not tell into one of the shore extraories	ASME B31.3 Chapter IX, for unlisted components where applicable
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 PRODUC	1
Swagelok	FORGED CI WELDED CO WROUGHT M CAST COTHER CO DESCRIBE OTHER:
IST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE R	
ECLARATION:  David H. Peace (1800 note 3) employed by Swagelok Company and be possibility for the quality of the end product do solemnly declare that the information contains	ing the person having full authority an
David H. Peace [1806 role 3] employed by Swagelok Company and be possibility for the quality of the end product do solemnly declare that the information contains knowledge represents the product for which registration is sought. The dimensions, material persure relings, and identification markings are in accordance with the herein named stands unfacture of these fittings is regulated by a Quality Control Program which extends to each plant and the herein series to each plant and the herein ser	o in this form is true and to the best of s of construction, pressure ands. I further declare that the ant where fabrication occurs in whole
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Canadian Registration Number Submittal Swagelok Submission #625FIT-2017

# Attachment B: Scope of Registration for Alloy 625 Tube Fittings (Category A)

### **Product Scope**

The table below presents the scope of Swagelok's alloy 625 Swagelok Tube Fittings covered by this submission for CRN approval, which complies with the requirements of ASME B31.3, Part 304.7.2 as an unlisted component.

#### **Summary Tables**

Product		Port Connections	Maximum Allowable Working Pressure		Design Code
Description or Series	Material	and Sizes	Up to 100°F	At maximum temperature	of Construction
Gaugeable Tube Fittings and Adapter Fittings	Alloy 625 ASTM B446	Swagelok End Connections 1/4, 3/8, 1/2 inch	See Table below	See Table below	ASME B31.3
	ASTM B440 ASTM B564 (for shaped bodies with 1/2" end connections)	NPT Male 1/4, 3/8, 1/2 inch		Pressure rating limited by ube fitting. See Table below	
		NPT Female 1/4, 3/8, 1/2 inch		ng limited by e Table below	

#### Alloy 625 Swagelok Tube Fitting Pressure Rating Table

Swagelok End Connection	Maximum Allowable Working Pressure (Note 1)			
Size, inch	Tube Wall Thickness, inch	Up to 100°F	Maximum temperature 1000°F (537°C) (Note 2)	
1/4	0.049 inch	10 700 psig	7 811 psig	
3/8	0.065 inch	9 400 psig	6 862 psig	
1/2	0.065 inch	6 800 psig	4 964 psig	

**Note 1:** Maximum Allowable Working Pressure Values based on noted tube wall thickness. Thinner tubing may be used but in all cases the ratings are less than, or equal to, those shown in the table.

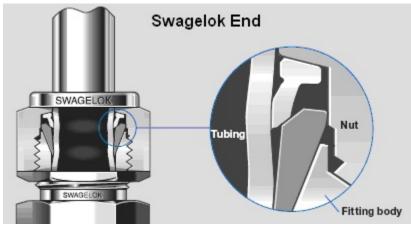
**Note 2:** Maximum Temperature ratings based on an Elevated Temperature Factor of 0.73, from ASME Code BPV Section II, Part D, Table 1B.



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## **Product Description And Ratings**

Swagelok Tube Fittings are furnished as straight or shaped fittings. Swagelok Tube Fittings consist of at least one Swagelok End – a proprietary two-ferrule mechanical-grip design.



**Cross-Section of Swagelok End connection** 

#### **Quality System**

The Swagelok Company quality system complies with the requirements of BS EN 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 catalogs do not represent the full scope of registration, but rather details some of the most common options.

- Gaugeable Tube Fittings and Adapter Fittings MS-01-140
- Tubing Data Sheet MS-01-107