

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: <u>Swagelok Company</u>	
MANUFACTURERS ADDRESS: <u>29500 Solon Road, Solon, Ohio 44139 USA</u>	
PLANT LOCATIONS: <u>Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Attachment A)</u>	
<p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>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 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting AECB or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center">ASME B31.3 Chapter IX, for unlisted components where applicable</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <p align="center" style="font-size: 2em;">Swagelok</p>	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>ISO 9001:2015 Quality System Certificate, Support Documents, Attachment B, Catalog Information, Attachment A</p>	

DECLARATION:

I David H. Peace (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 or in part and has been verified by BSI 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, Ohio

This 12th day of January AD 2017

Commissioner of Oaths or Notary Public: (sign) [Signature]
 Jamie L. Ristau
 Resident Portage County
 Notary Public, State of Ohio
 (Affix Official seal to the right) My Commission Expires: 03/06/2018

USE THIS SPACE FOR OFFICIAL



<p>This space for Regulatory Authority</p> <p align="center">Brunswick DEPT OF PUBLIC SAFETY BOILER & PRESSURE VESSEL ACT</p> <p>REGISTRATION ONLY</p> <p>CRN: <u>0A19311.5</u></p> <p>FID#: <u>1214</u></p> <p>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 at a maximum interval of five (5) years.</p>	<p align="center">This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p>CRN: <u>0A19311.57</u></p> <p>EXAMINER: <u>[Signature]</u> for CHIEF BOILER INSPECTOR</p> <p>DATE: <u>5/26/2017</u></p>
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BLRs PVs
 FITTINGS COMPONENTS

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

Alloy 625 Swagelok Tube Fitting Pressure Rating Table

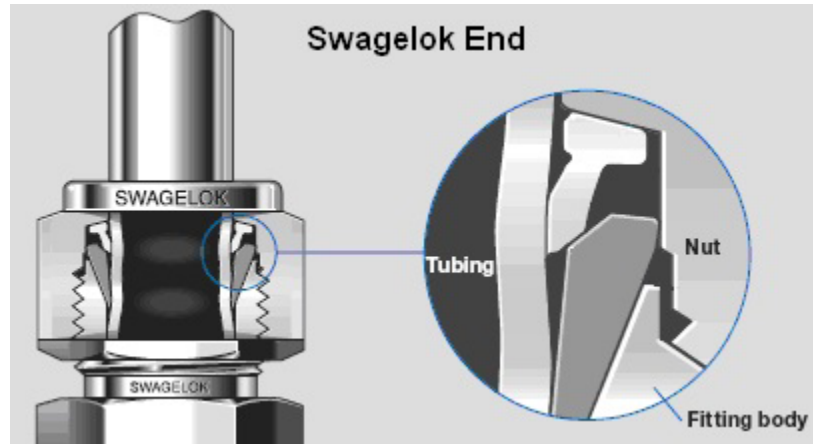
Swagelok End Connection Size, inch	Maximum Allowable Working Pressure (Note 1)		
	Tube Wall Thickness, inch	Up to 100°F	Maximum temperature 1000°F (537°C) (Note 2)
1/4	0.049 inch	10 700 psig	7 811 psig
3/8	0.065 inch	9 400 psig	6 862 psig
1/2	0.065 inch	6 800 psig	4 964 psig

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.

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