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TECHNICAL STANDARDS & SAFETY AUTHORITY
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Date: May 23, 2017
Account #: 35231
Journal #: 68031
Our File #: 5616001

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA SR# 2076436, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY **CRN:** 0A19311.51

Drawing #: MS-01-140, Sub# 625FIT-2017

Conditions Of Registration:

Registration of Alloy 625 Tube Fittings; scope per attachment B (2 pages) + Mfg Location List.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on April 11, 2027. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@safetyauthority.ca
Design Administration

cc:

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

Product Scope

The table below presents the scope of 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

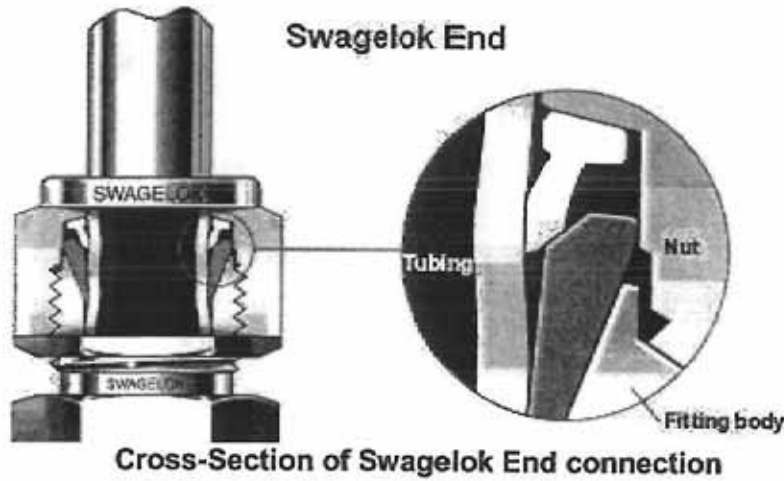
Note 1: Maximum Allowable Working Pressure Values based on noted tube wall thickness. Thinner tubing may be used but in all cases the ratings are less than, or equal to, those shown in the table.

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.



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

