NEW BRUNSWICK NUNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAM	o Detert company		
MANUFACTURERS ADD		, Solon, Ohio 44139 USA	
PLANT LOCATIONS: H	eadquarters: 29500 Solon	Road, Solon, Ohio 44139 USA (See	Attachment A)
CATEGORY OF	FITTINGS TO BE REGISTERE	D. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTS
8 Flanges: all flanges C Valves: all line valves D Expansion joints, flexib E Strainers, filters, sepan F Measuring devices, inci- pressure transmitters G Certified capacity-rated bollers, pressure vesse H Pressure retaining com	ie connections, and hose assemators, and steam traps uding pressure gauges, level gat pressure relief devices acceptat is, piping and fusible plugs ponents that do not fall into one	uges, sight gizsses, levels, or ble as primary over pressure protection on	ASME B31.1 for unlisted components, ASME B31.3 for unlisted components
SHOW MANUFACTURER	NAME, TRADEMARK, OR LO	GO AS IT WILL APPEAR ON THE PRODU	
Sw	agelok		FORGED WELDED WROUGHT CAST OTHER R DESCRIBE OTHER: Fittings made from bar and forgings
ool Feldman, Vice President sponsibility for the qual y knowledge represents mperature ratings, and anufacture of these fittle in part and has been v	ity of the end product do sole the product for which regist identification markings are in ngs is regulated by a Quality erified by BSI	mnly declare that the information conta ration is sought. The dimensions, mate accordance with the herein named sta Control Program which extends to each	sined in this form is true and to the best triels of construction, pressure indexes. I further declare that the highest where fabrication occurs in whole that numbers and I make this selection.
ool Feldman, Vice President isponsibility for the qual by knowledge represents imperature ratings, and anufacture of these fittle in part and has been ver in part and be in part and in	ity of the end product do sole the product for which regist identification markings are in nest is regulated by a Quality erified by BSI by believing it to be true, and	emnly declare that the information conta- ration is sought. The dimensions, mate accordance with the herein named sta Control Program which extends to each	sined in this form is true and to the best triels of construction, pressure indexes. I further declare that the highest where fabrication occurs in whole that numbers and I make this selection.
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Date: March 8, 2021 Page 1 of 3

Attachment B. Scope of Registration for Swagelok Alloy 825 (ASTM B425 UNS N08825) Tube Fittings (Category A)

This document presents the scope of Swagelok Nickel-Chromium Alloy 825 Tube Fittings covered by this submission for CRN approval. These fittings have been evaluated in accordance with ASME B31.1-2020 and ASME B31.3-2018 for unlisted components.

The fittings rating is based on the lower rating between the type of end connections. **Summary Table**

			Maximum Allowable Working Pressure			
Product Description or Series	Material (Standard)	Port Connections and Sizes	Up to 100°F (psig)	At maximum temperature per ASME B31.3 (psig)	At maximum temperature per ASME B31.1 (psig)	Design Code of Construction
Alloy 825, UNS N08825 (ASTM B425) For straight fittings, hardware Alloy 825, UNS N08825 (ASTM B564) For shaped fittings	Tube Fitting 1/4 - 1/2 inch, 6 - 12mm	See Table below	See Table below	See Table below	Unlisted Component in ASME B31.1 & B31.1	
	fittings, hardware Alloy 825, UNS N08825 (ASTM B564) For shaped	NPT, Male 1/16 - 1 inch	11 600 - 6100	11 449 – 6021* at 800°F (426°C)	8468 - 4453* at 800°F (426°C)	ASME B1.20.1 is listed in ASME B31.1 & B31.3
		NPT, Female 1/16 - 1 inch	7800 - 5100	7699 - 5034* at 800°F (426°C)	5694 - 3723* at 800°F (426°C)	

^{**}Rating for fitting material (may be limited by thread sealant)

Alloy 825 Swagelok Tube Fitting Pressure Rating Tables

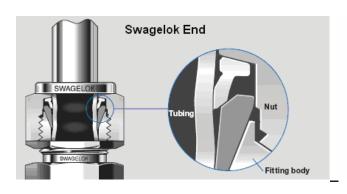
	Maximum Allowable Working Pressure				
Swagelok End Connection Size	Up to 100°F	At maximum temp. 800°F (426°C) per ASME B31.3	At maximum temp. 800°F (426°C) per ASME B31.1		
1/4 inch	11600 psig	11 449 psig	8468 psig		
3/8 inch	8200 psig	8093 psig	5986 psig		
1/2 inch	5900 psig	5823 psig	4307 psig		
6 mm	660 bar	651 bar	482 bar		
10 mm	480 bar	474 bar	350 bar		
12 mm	480 bar	474 bar	350 bar		



Canadian Registration Number Submittal Category A: Swagelok Alloy 825 Tube Fittings

Product Description

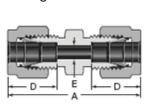
Swagelok Fittings are furnished in a variety of configurations and shapes (straight, elbow, or tee). Swagelok Fittings consist of at least one Swagelok End – a two-ferrule mechanical-grip design. The Swagelok end is a proprietary design, and the assembly consists of Swagelok body, nut, front and back ferrule (see detail). The table above, as well as the "Configurations" section, covers a variety of other end connections.

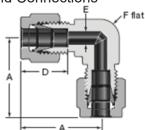


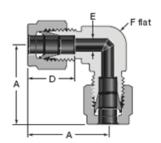


Configurations

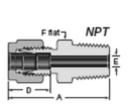
Unions (Straight, Elbow, Tee)
 Swagelok Tube Fitting End Connections

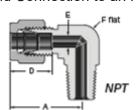


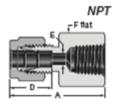


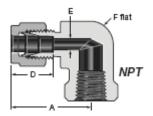


2. Male and Female Connectors / Adapters (Straight, Elbow, Tee)
Swagelok Tube Fitting End Connection to an NPT End Connection









Date: March 8, 2021

Page 2 of 3

Swagelok to NPT Male Connectors

Swagelok to NPT Female Connectors

(For dimensions see catalog.)



Canadian Registration Number Submittal Category A: Swagelok Alloy 825 Tube Fittings

Product Options:

The product options listed below affect pressure and/or temperature ratings shown in the above Summary Table, but in all cases the ratings are less than, or equal to, those shown in the table.

Date: March 8, 2021

Page 3 of 3

- 1. Bored-Through Fittings.
- 2. Sealant for tapered pipe threads (NPT):
 - a. Curable resin with PTFE
 - b. PTFE tape

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:

- 1. Special marking
- 2. Special cleaning
- 3. Wire drills
- 4. Bulkhead Configurations
- 5. Snubbers/frits and orifice plates
- 6. Equivalent metric or fractional hex sizes

All 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. The 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 AE
- Swagelok Tubing Data Sheet MS-01-107, Rev T

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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. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China	Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man