



STATUTORY DECLARATION
Registration of Fittings

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting. Swagelok

I, Joel Feldman, Vice President, Engineering
(name of applicant) (position title) (must be in a position of authority)
of Swagelok Company
(name of manufacturer)

located at 29500 Solon Road, Solon, Ohio 44139 USA (see Attachment A)
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

[X] comply with the requirements of ASME B31.1 and ASME B31.3 which specifies the dimensions, (title of recognized North American Standard)

materials of construction, pressure/temperature ratings and identification marking of the fittings, or

[ ] are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with (title of code of construction or other applicable document) as supported by the attached

data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, BSI as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

Category A Type Fittings
(brief description of fittings)

In support of this application, the following information, calculations and/or test data are attached:

ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents

DECLARED before me at in the of (city) (province or state)

this day of (Month) (Year)

(print) Unable to get a notary signature or seal due to COVID-19 situation (a Commissioner of Oaths or Notary Public)

(sign) (a Commissioner of Oaths or Notary Public)

DocuSigned by: [Signature] C87CBBFFD3F14B7...

For ABSA Office Use Only:

NOTES: \*\* See attachments A & B for a list of manufacturing locations and scope of registration.

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category

Registration Number: (Signature of the Administrator/SCO)

Date Registered: Expiry Date:

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Pressure Equipment Discipline.

2021-03002 ABSA SAFETY CODES ACT - PROVINCE OF ALBERTA ACCEPTED: 0A23291.52 See acceptance letter for conditions of registration. Date: 2021-06-16 By: ASHLEIGH DICK, P. Eng.

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

## 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.

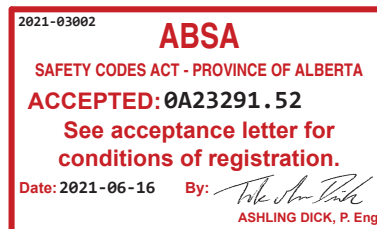
### Summary Table

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

*\*\*Rating for fitting material (may be limited by thread sealant)*

### Alloy 825 Swagelok Tube Fitting Pressure Rating Tables

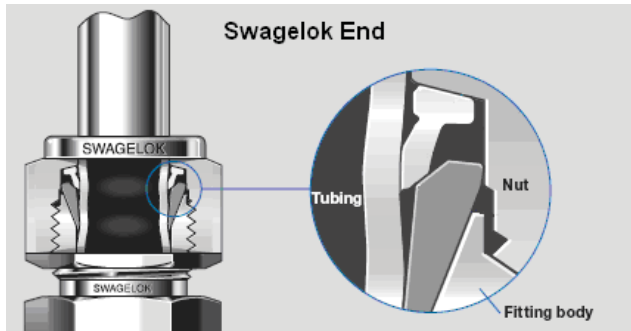
| Swagelok End Connection Size | Maximum Allowable Working Pressure |   |   |
|------------------------------|------------------------------------|---|---|
|                              | Up to 100°F                        | At maximum temp. 800°F (426°C) per ASME B31.3 | At maximum temp. 800°F (426°C) 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                                       |



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## Product Description

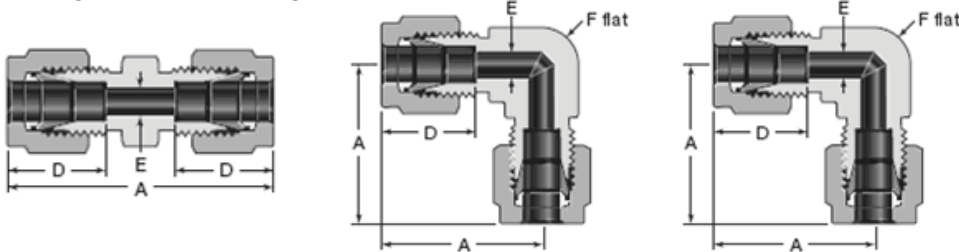
Swagelok Fittings are furnished in a variety of configurations and shapes (straight, elbow, or tee). Swagelok Fittings consist of at least one Swagelok End – a two-ferrule mechanical-grip design. The Swagelok end is a proprietary design, and the assembly consists of Swagelok body, nut, front and back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



## Configurations

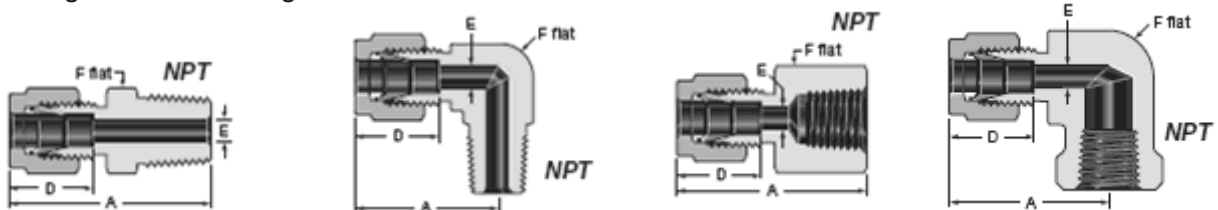
### 1. Unions (Straight, Elbow, Tee)

Swagelok Tube Fitting End Connections



### 2. Male and Female Connectors / Adapters (Straight, Elbow, Tee)

Swagelok Tube Fitting End Connection to an NPT End Connection



**Swagelok to NPT Male Connectors**

**Swagelok to NPT Female Connectors**

(For dimensions see catalog.)



### **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.

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**

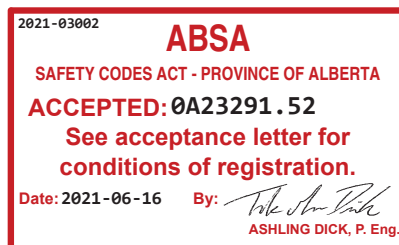
The product catalog does not represent the full scope of the registration but rather details some of the most common options.

- Gaugeable Tube Fittings and Adapter Fittings MS-01-140, Rev AE
- Swagelok Tubing Data Sheet MS-01-107, Rev T

## Attachment A. Swagelok Manufacturing Locations

This document lists the Swagelok locations where end item or component level manufacturing activities take place.

|   |  |
|---|--|
| Swagelok Company<br>29500 Solon Road<br>Solon, Ohio 44139<br>USA  | Swagelok Company (Falon 1)<br>348 Bishop Road<br>Highland Heights, Ohio 44143<br>USA |
| Swagelok Company (Highland)<br>318 Bishop Road<br>Highland Heights, Ohio 44143<br>USA   | Swagelok Company (Falon 2)<br>358 Bishop Road<br>Highland Heights, Ohio 44143<br>USA |
| Swagelok Company (OFC)<br>29495 F.A. Lennon Drive<br>Solon, Ohio 44139<br>USA   | Swagelok Company (HPF)<br>6050 Cochran Road<br>Solon, Ohio 44139<br>USA              |
| Swagelok Company (Atlantic)<br>26651 Curtiss Wright Parkway<br>Willoughby Hills, Ohio 44092<br>USA  | Swagelok Company (Snow Metal)<br>6060 Cochran Road<br>Solon, Ohio 44139<br>USA       |
| Swagelok Company (Micro)<br>26653 Curtiss Wright Parkway<br>Willoughby Hills, Ohio 44092<br>USA   | Swagelok Company (Alfred)<br>29500 Ambina Drive<br>Solon, Ohio 44139                 |
| Swagelok Hose Services Company (SHSC)<br>29900 Solon Industrial Parkway<br>Solon, Ohio 44139  | Swagelok Company (Strongsville)<br>15400 Foltz Road<br>Strongsville, Ohio 44119      |
| Swagelok (China) Fluid System Technologies Ltd.<br>Changshu Export Process Zone<br>Changshu Economic Development Zone<br>Changshu, Jiangshu<br>215513 China | Swagelok Limited<br>Ballafletcher Road<br>Tromode<br>IM4 4RA<br>Isle of Man          |



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June 16, 2021

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON M9W 6N9

The design submission, tracking number 2021-03002, originally received on June 02, 2021 was surveyed and accepted for registration as follows:

**CRN :** 0A23291.52 **Accepted on:** June 16, 2021  
**Reg Type:** NEW DESIGN **Expiry Date:** June 01, 2031  
**Drawing No. :** ATTACHMENT A & B  
**Fitting type:** ALLOY 825 SWAGELOK TUBE FITTINGS  
Design registered in the name of : SWAGELOK COMPANY

**The registration is conditional on your compliance with the following notes:**

*\*\* See attachment A and B for manufacturing locations, and scope of registration*

*As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.3 and ASME B31.1.*

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.*
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.*
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.*
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.*

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely,



DICK, ASHLING, P. Eng.  
DOP Cert. No. D00007936