

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 of Swagelok Company

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

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

- comply with the requirements of ASME B31.1 and ASME B31.3 which specifies the dimensions, 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...

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 C Type 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 Solon in the state of Ohio this 21st day of Nov, 2019

(print) Brenda Hammel (a Commissioner of Oaths or Notary Public) (sign) Brenda Hammel (a Commissioner of Oaths or Notary Public)

(signature of applicant)

For ABSA Office Use Only:

NOTES: 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: Date Registered: Expiry Date:

2020-01546 ABSA SAFETY CODES ACT - PROVINCE OF ALBERTA ACCEPTED: 0C22234.52 See acceptance letter for conditions of registration. Date: 2020-03-26 By: XING LIU, P. Eng.

Attachment A. Swagelok Manufacturing Locations

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

Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA	Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 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) 29900 Solon Industrial Parkway Solon, Ohio 44139	Swagelok Company (Strongsville) 15400 Foltz Road 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



Attachment B: Scope of Registration for Swagelok O, 1, 18, 20 and 26 Series Integral Bonnet Needle Valves (Category C)

This document represents the scope of the Swagelok O, 1, 18, 20 and 26 Series Needle Valves covered by this submission for CRN approval. These products were designed and evaluated in accordance with ASME B31.1-2018 for unlisted components and ASME B31.3-2018 for unlisted components.

Summary Table

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections, Sizes	Maximum Rated Pressure (psig)		Design Code of Construction
				At -65 to 100°F (except Carbon Steel)	@ max. temperature	
O, 1, 18	Body	F316 SS (ASTM A182)	Tube Fitting 1/8", 1/4", 3/8", 1/2", 3/4", 3MM, 6MM, 8MM, 10MM, 12MM, 18MM Female NPT 1/8", 1/4" Male NPT 1/8", 1/4", 3/8" Female ISO 1/4"	5000	3130 @ 600°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Female NPT 3/8", 1/2" Female ISO 3/8", 1/2" Male NPT 1/2"	4400	2770 @ 600°F	
20, 26	Body	F316 SS (ASTM A479)	Tube Fitting 1/4", 3/8", 1/2" Female NPT 1/4" Male NPT 1/4" 3/8", 1/2", 3/4" Female ISO 1/4"	6000	3760 @ 600°F	
			Female NPT 3/8"	5300	3330 @ 600°F	
			Female NPT 1/2" Female ISO 1/2"	4900	3080 @ 600°F	
1, 18	Body	Type 1137 Carbon Steel (ASTM 181)	Tube Fitting 1/4", 3/8", 1/2", 3/4", 6MM, 8MM, 10MM, 12MM, 18MM Female NPT 1/4", 3/8", 1/2" Male NPT 1/4", 3/8", 1/2" Female ISO 1/4", 3/8", 1/2"	3000 @ -20°F to 100°F	2615 @ 350°F	
O, 1	Body	Alloy 400 (ASTM B564)	Tube Fitting 1/8", 1/4", 3/8", 1/2", 3/4", 8MM, 10MM Female NPT 1/8", 1/4" Male NPT 1/8", 1/4", Female ISO 1/4"	3000	2375 @ 500°F	



Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Rated Pressure (psig)		Design Code of Construction
				At -65 to 100°F	@ max. temperature	
O, 1, 18	Body	Brass C37700 (ASTM B283)	Tube Fitting 1/8", 1/4", 6MM Female NPT 1/8", 1/4" Female ISO 1/4" Male NPT 1/8", 1/4", 1/2"	3000	2350 @ 200°F	ASME B31.1 (Unlisted Components)
			Tube Fitting 3/8"	2200	1760 @ 200°F	
			Tube Fitting 1/2"	2100	1680 @ 200°F	
			Tube Fitting 3/4"	1800	1440 @ 200°F	
			Tube Fitting 8MM	2320	1858 @ 200°F	
			Tube Fitting 10MM	1885	1509 @ 200°F	
			Tube Fitting 12MM	2030	1625 @ 200°F	
			Tube Fitting 18MM	1590	1277 @ 200°F	
			Female NPT 3/8" Female ISO 3/8"	2600	2340 @ 200°F	
			Female NPT 1/2" Female ISO 1/2"	2400	2160 @ 200°F	
			Tube Fitting 1/8", 1/4", 6MM Female NPT 1/8", 1/4" Female ISO 1/4" Male NPT 1/8", 1/4", 1/2"	3000	390 @ 400°F	ASME B31.3 (Unlisted Components)
			Tube Fitting 3/8"	2200		
			Tube Fitting 1/2"	2100		
			Tube Fitting 3/4"	1800		
			Tube Fitting 8MM	2300		
			Tube Fitting 10MM	1885		
			Tube Fitting 12MM	2030		
			Tube Fitting 18MM	1590		
Female NPT 3/8", 1/2" Female ISO 3/8", 1/2"	2400					

Product Illustrations



Configurations

Bodies are available in straight pattern and angle pattern.

Typical Product Characteristics:

Some of the product options listed below affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are less than those shown in the Summary Table. All of the following options are within the scope of this registration:

Stem Packing Options

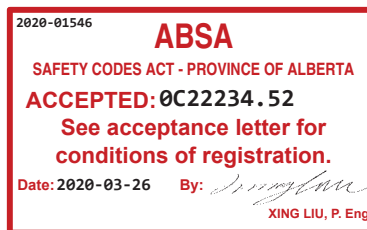
Polytetrafluoroethylene (PFA)
Ultra High Molecular Weight Polyethylene (UHMWPE)
Polyetheretherkeytone (PEEK)

O-ring Stem Seal Options

Nitrile
Ethylene Propylene
Silicone
Kalrez

Stem Designs

Regulating
PCTFE soft-seat regulating
PTFE soft-seat regulating



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.

Additional options and non-pressure boundary alterations that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include handle options, actuator options, etc.

Quality System

The Swagelok Company quality system complies with the requirements of ISO 9001:2015. The Swagelok Company maintains British Standards Institution 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 registration, but rather details some of the most common options.

- O, 1, 18, 20 and 26 Series Needle Valve Catalog MS-01-164, Rev N

March 26, 2020

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

The design submission, tracking number 2020-01546, originally received on March 13, 2020 was surveyed and accepted for registration as follows:

CRN : 0C22234.52 **Accepted on:** March 26, 2020
Reg Type: NEW DESIGN **Expiry Date:** March 10, 2030
Drawing No. : ATTACHMENT A&B NEEDLE VALVE Rev FEB72020
Fitting type: VALVE
Design registered in the name of : SWAGELOK COMPANY

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

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

- *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 3388 or fax (780) 437-7787 or e-mail Liu@absa.ca.

Sincerely,



LIU, XING, P. Eng.
DOP Cert. No. D00008861