

TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON M9W 6N9

Date: August 12, 2020
Account #: 35231
Journal #: 76257

Attn: TSSA

Re: Application for Design Registration

The design, as detailed in your, 0C22514.5, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY **CRN:** 0C22514.51

Drawing #: Scope of Registration

Drawing Revision: N/A

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:

Scope of Registration: Attachment A and B-Swagelok 31,S,M,L SERIES METERING VALVES

As required by CSA B51 4.2.1, this registration expires on 22-Jun-2030. 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. Any additional conditions of registration stated in TSSA CRN# 0C22514.5 registration shall apply to BC registration.

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

Emilia Tam

emilia.tam@technicalsaftybc.ca
Design Administration

cc:



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

Swagelok

STATUTORY DECLARATION Registration of Fittings

I, Joel Feldman, Vice President of Engineering
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Swagelok Company
(Name of Manufacturer)

Located at 29500 Solon Road, Solon, Ohio 44139 USA (Plant Address) (440) 248-4600 (Telephone No.) (440) 349-5970 (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the *Technical Standards and Safety Act*, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.1 for unlisted components, and ASME B31.3 for unlisted components
(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, BSI

The items covered by this declaration, for which I seek registration, are category C. Valves type fittings. In support of this application, the following information and/or test data are attached as follows:

ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents
(drawings, calculations, test reports, etc.)

Declared before me at _____ in the _____ of _____
 the _____ day of _____ AD 20____.

Commissioner for Oaths:

**Unable to get a notary signature or seal
 due to Covid-19 situation - June 5, 2020**

(Printed name)

(Signature)

Joel C. Feldman
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the *Technical Standards and Safety Act*, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category C

CRN: 0C22514.5

Registered by: *[Signature]*

Dated: JUNE 22, 2020



This Document has been digitally signed. The stamp size has been optimized for 11 x 17 documents

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0C22514.5

Signed: *[Signature]*

Date: June 22, 2020.

NOTE: This registration expires on: JUNE 22, 2030

FOR SCOPE OF REGISTRATION SEE STAMPED ATTACHMENT A AND B

**Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*



Attachment B: Scope for Swagelok 31, S, M, and L Series Metering Valves (Category C)

This document represents the scope of the Swagelok 31, S, M, and L Series Metering 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 -10 to 100°F (except 31 Series)	At max temperature	
31	Body, Bonnet	316 SS (ASTM A479)	Tube Fitting 1/4", 6MM Female NPT 1/8", 1/4"	5000 @ -65 to 100°F	3435 @ 450°F 2815 @ 850°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
S	Body, Bonnet	316 SS (ASTM A479)	Tube Fitting 1/16", 1/8", 1/4", 3MM, 6MM Male VCR 1/4"	2000	2000 @ 400°F	
M	Body, Bonnet	316 SS (ASTM A479)	Tube Fitting 1/8", 1/4", 3MM, 6MM Male NPT 1/8", 1/4" Female NPT 1/8" Male VCR 1/4"	1000	1000 @ 400°F	
L	Body, Bonnet	316 SS (ASTM A479)	Tube Fitting 1/4", 3/8", 6MM Male NPT 1/4"	1000	1000 @ 400°F	
S	Body, Bonnet	Brass C37700 (ASTM B283)	Tube Fitting 1/16", 1/8", 1/4", 3MM, 6MM	2000	2000 @ 200°F	ASME B31.1 (Unlisted Components)
M	Body, Bonnet	Brass C37700 (ASTM B283)	Tube Fitting 1/8", 1/4", 3MM, 6MM Male NPT 1/8", 1/4" Female NPT 1/8"	1000	1000 @ 200°F	
L	Body, Bonnet	Brass C37700 (ASTM B283)	Tube Fitting 1/4", 3/8", 6MM Male NPT 1/4"	1000	1000 @ 200°F	
S	Body, Bonnet	Brass C37700 (ASTM B283)	Tube Fitting 1/16", 1/8", 1/4", 6MM	2000	2000 @ 300°F	ASME B31.3 (Unlisted Components)
			Tube Fitting 3MM	2000	1885 @ 300°F	
M	Body, Bonnet	Brass C37700 (ASTM B283)	Tube Fitting 1/8", 1/4", 3MM, 6MM Male NPT 1/8", 1/4" Female NPT 1/8"	1000	1000 @ 300°F	
L	Body, Bonnet	Brass C37700 (ASTM B283)	Tube Fitting 1/4", 3/8", 6MM Male NPT 1/4"	1000	1000 @ 300°F	

Product Illustration



THIS IS PART OF CRN
0C22514.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Typical Product Characteristics

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include stem seal materials and handles.

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 registration, but rather details some of the most common options.

- 31, S, M, L Series Metering Valves Catalog MS-01-142, R11

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	THIS IS PART OF CRN 0C22514.5 Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program
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	