

ALBERTA BOILERS SAFETY ASSOCIATION
9410 20 AVENUE NW
EDMONTON AB T6N 0A4

Date: May 10, 2021
Account #: 34986
Journal #: 77888

Attn: NATHALIE DUGO

Re: Application for Design Registration

The design, as detailed in your, Swagelok 2021-01641, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY **CRN:** 0F21398.21

Drawing #: Scope of Registration

Drawing Revision: 2021-03-24

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 & B - SCOPE OF REGISTRATION PG. 1 & 2 Rev 2021-03-24

As required by CSA B51 4.2.1, this registration expires on 14-Apr-2031. 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 ABSA CRN# 0F21398.2 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:



STATUTORY DECLARATION Registration of Fittings

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


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)

- comply with the requirements of 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 _____ as supported by the attached (title of code of construction or other applicable document) 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 E 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:

3/25/2021 | 10:45 AM
C87CBBFFD3F14B7
(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 F

Registration Number: _____ (Signature of the Administrator/SCO)

Date Registered: _____ Expiry Date: APRIL 14, 2031

The information you provide is necessary only for the _____ of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline.

2021-01641
ABSA
 SAFETY CODES ACT - PROVINCE OF ALBERTA
ACCEPTED: 0F21398.2
 See acceptance letter for conditions of registration.
 Date: 2021-04-14 By: ZANA RADISAVLJEVIC, P. Tech. (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.



Canadian Registration Number Submittal
Category F: Swagelok M1, M2 Variable Area Flow Meters

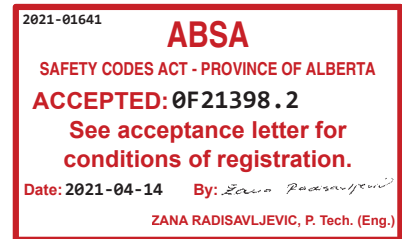
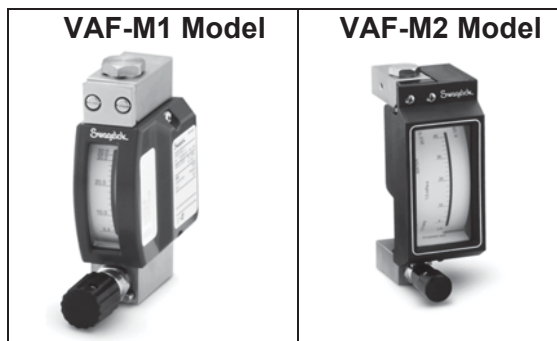
March 24, 2021
Page 1 of 2

Attachment B. Scope of Registration for Swagelok M1, M2 Model Variable Area Flow Meters (Category F)

Product Scope

This document represents the scope of Swagelok's M1 and M2 model Variable Area Flowmeters covered by this CRN approval. These flowmeters have been evaluated in accordance with appropriate North American standards. See the table below for specific design codes of construction for each product series.

Product Description



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.

Summary Table

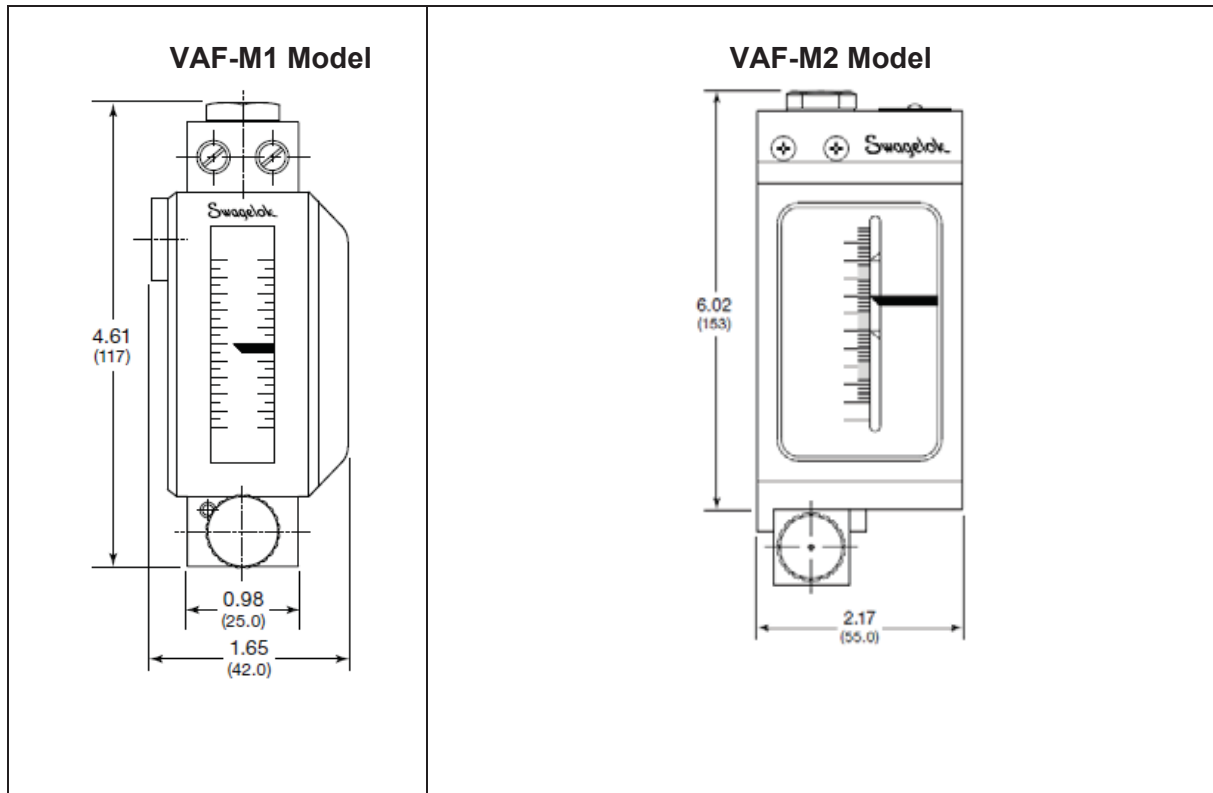
Model	Material	Port Connections and Sizes	Max. Inlet Pressure at 70° F (psig)	Min. Temperature Rating (°F)	Max. Temperature Rating (°F)	Design Code of Construction
VAF-M1	316L SS	NPT 1/4"	1885	-4	302	ASME B31.3
VAF-M2	316L SS	NPT 1/4"	1885	-4	302	ASME B31.3



Canadian Registration Number Submittal
Category F: Swagelok M1, M2 Variable Area Flow Meters

March 24, 2021
Page 2 of 2

Sample Drawings with Nominal Dimensions



Product Options:

Additional options and non-pressure boundary alterations that do not affect the pressure-temperature ratings may be made available within the scope of this approval. Examples of these include the following:

- Gasket or O-ring materials
- Limit switches
- Top-mounted needle valve
- Silconert coating
- Special cleaning
- Electronic (LED) display

Quality System

The Swagelok Company quality system complies with the requirements of EN 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 the registration but rather details some of the most common options.

- Variable Area Flowmeters, G Series and M Series, Product Catalog MS-02-346 Rev. H

Attachment A. Manufacturing Locations

This document lists the location where end item manufacturing activities take place.

Krohne Messtechnik GmbH
Ludwig-Krohne-Str. 5
47058 Duisburg
Germany

April 14, 2021

Attention: Jonathan Seewald
SWAGELOK COMPANY
29500 SOLON ROAD
SOLON, OH 44139

The design submission, tracking number 2021-01641, originally received on March 25, 2021 was surveyed and accepted for registration as follows:

CRN : 0F21398.2 **Accepted on:** April 14, 2021
Reg Type: NEW DESIGN **Expiry Date:** April 14, 2031
Drawing No. : ATTACHMENT A & B - SCOPE OF REGISTRATION PG. 1 & 2 Rev 2021-03-24
Fitting type: M1 & M2 MODEL VARIABLE AREA FLOW METERS
The registration is conditional on your compliance with the following notes:

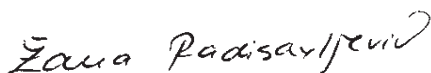
As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is ASME B31.3.

- 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 3369 or fax (780) 437-7787 or e-mail Radisavljevic@absa.ca.

Sincerely,



RADISAVLJEVIC, ZANA, P. Tech. (Eng.)
DOP Cert. No. D00003136

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

Date: May 17, 2021
Account #: 35231
Journal #: 77898

Attn: TSSA

Re: Application for Design Registration

The design, as detailed in your, 0F23192.5 - SWAGELOK COMPANY, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY **CRN:** 0F23192.51

Drawing #: VAF-M4 and VAF-M4H MODELS

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 03-Jan-2028. 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# 0F23192.5 registration shall apply to BC registration.

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

Janina Mihailescu

janina.mihailescu@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 (440) 248-4600 (440) 349-5970
(Plant Address) (Telephone No.) (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 VIII Div. 1, ASME B31.1, and ASME B31.3
(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 F. Measuring Devices 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
(Printed name)

(Signature)

DocuSigned by:

3/20/2021 | 4:16 PM ET

C87CBBFFD3F14B7
(Signature of Declarer)

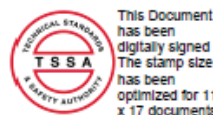
FOR OFFICE USE ONLY

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 F.

CRN: 0F23192.5

Registered by: LILIANA CONSTANTINESCU

Dated: APRIL 19, 2021



Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0F23192.5

Signed:

Date: April 19, 2021.

NOTE: This registration expires on: JANUARY 3, 2028

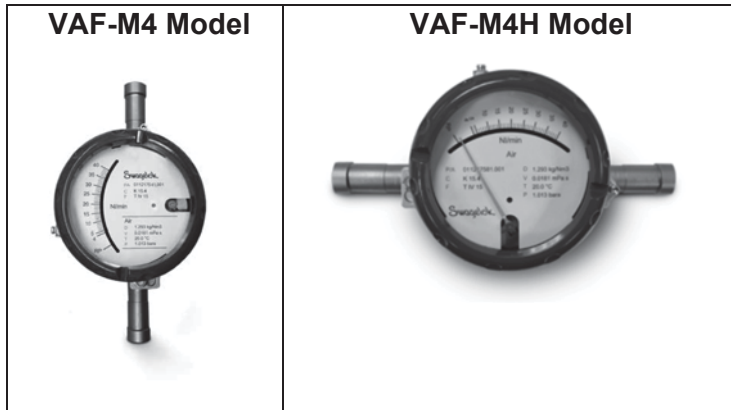
*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

**Attachment B. Scope of Registration for Swagelok M4, M4H Model
 Variable Area Flowmeters (Category F)**

Product Scope

This document represents the scope of Swagelok’s M4 and M4H model Variable Area Flowmeters covered by this CRN approval. These flowmeters have been evaluated in accordance with appropriate North American standards. See the table below for specific design codes of construction for each product series.

Product Description

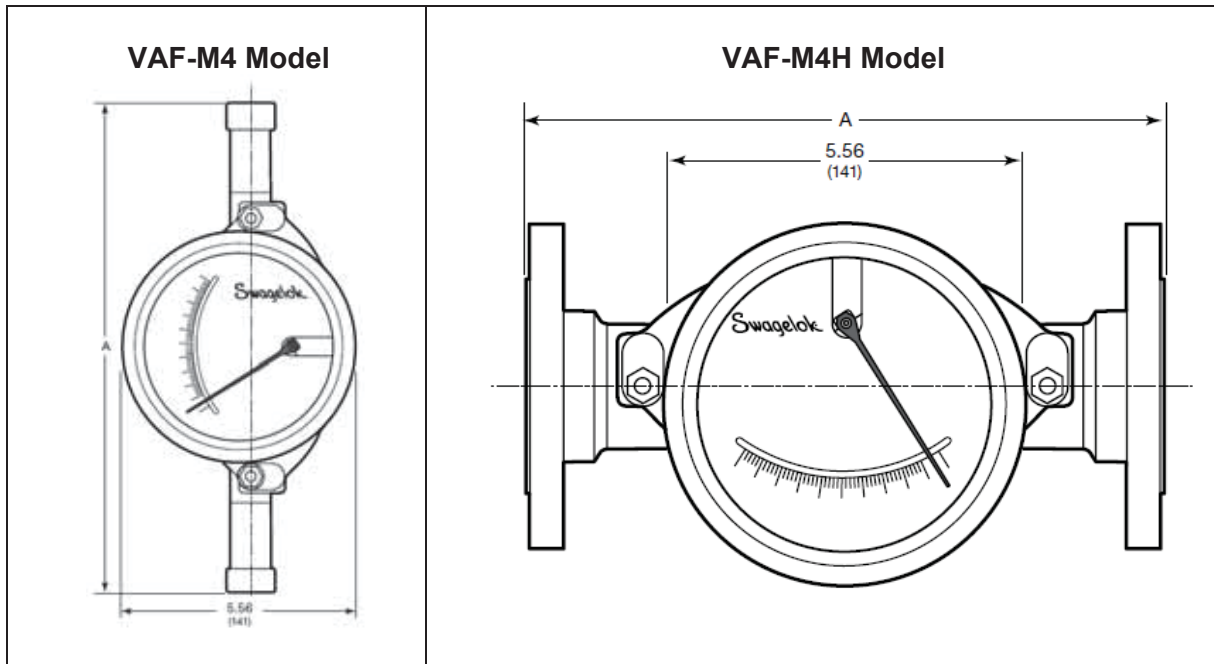


**THIS IS PART OF CRN
 0F23192.5**
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety
 Program

Summary Table

Model	Material	Port Connections and Sizes	Max. Inlet Pressure at 70° F (psig)	Min. Temperature Rating (°F)	Max. Temperature Rating (°F)	Design Code of Construction
VAF-M4 (1/2 inch dia. Tube)	316L SS	NPT 1/2", 3/4" ASME flange 1/2", 3/4", 1"	2888	-40	572	ASME Section VIII Division 1, ASME B31.1, ASME B31.3
VAF-M4 (1 inch dia. Tube)	316L SS	NPT 3/4", 1" ASME flange 3/4", 1"	1393	-40	572	ASME Section VIII Division 1; ASME B31.1; ASME B31.3
VAF-M4H (1/2 inch dia. Tube)	316L SS	NPT 3/4" ASME flange 1/2", 3/4", 1"	2888	-40	572	ASME Section VIII Division 1; ASME B31.1; ASME B31.3
VAF-M4H (1 inch dia. Tube)	316L SS	NPT 1-1/4" ASME flange 1"	1393	-40	572	ASME Section VIII Division 1; ASME B31.1; ASME B31.3

Sample Drawings with Nominal Dimensions



Product Options:

Additional options and non-pressure boundary alterations that do not affect the pressure-temperature ratings may be made available within the scope of this approval. Examples of these include the following:

- Gasket or O-ring materials
- Limit switches
- Top-mounted needle valve
- Silconert coating
- Special cleaning
- Electronic (LED) display

THIS IS PART OF CRN
0F23192.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Quality System

The Swagelok Company quality system complies with the requirements of EN 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 the registration but rather details some of the most common options.

- Variable Area Flowmeters, G Series and M Series, Product Catalog MS-02-346 Rev. H

Attachment A. Manufacturing Locations

This document lists the location where end item manufacturing activities take place.

Krohne Messtechnik GmbH
Ludwig-Krohne-Str. 5
47058 Duisburg
Germany

THIS IS PART OF CRN
0F23192.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program