NEW BRUNSWICK NUNAVUT

NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Swagelok Company	
MANUFACTURERS ADDRESS: 29500 Solon Road, Solon, Ohio	44139 USA
PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon	, Ohio 44139 USA (See Attachment A)
SALEGORY OF FITTINGS TO BE REGISTERED. CIRCLE O	NE CATEGORY ONLY TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe B Planges: all fitanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps Measuring devices, including pressure gauges, level gauges, sight gless pressure transmitters C Cartifled especity-rated pressure relief devices acceptable as primary to bollars, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above or N Nuclear components: Class 1	asses, levels, or over pressure protection on ategories ECB or ASME requirements)
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WIL	LAPPEAR ON THE PRODUCT TYPE OF CONSTRUCTION
Swagelok	FORGED D WELDED DI WKOLGHY ME CAST D OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog	
esponsibility for the quality of the end product do solermly declare my knowledge represents the product for which registration is sough emperature ratings, and identification markings are in accordance nenufacture of these fittings is regulated by a Quality Control Progor or in part and has been verified by BS! Jeclaration consciently believing it to be true, and knowing that	with the herein named standards. I further declare that the ram which extends to each plant where fabrication occurs in whole as being suitable for that purpose and I make this solemn tit is of the same force and effect as if made under oath.  10:45 AM EDT USETHISSPACEFORTHE
This space for Reg	ulatory Authority use
This registration must be revalidated after CRN: OF 21398, 2  FID#: 1214  Notes:  1. All fittings shall be registered in the name of the Manufacturer.  2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.  3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.  4. Quantity control programs shall be resubmitted for validation at a maximum interval of five (5) years.	NUNAVUT  Boilers and  NULAVUT  Pressure Vessels Act  REGISTERED  CRN OF 213 98 .2 N  Date April 30 , 2021  Signed Chief tripector
	Territorial Registration Fee



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**



# ABSA SAFETY CODES ACT - PROVINCE OF ALBERTA ACCEPTED: 0F21398.2 See acceptance letter for conditions of registration. Date: 2021-04-14 By: East Passary For 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.

#### **Summary Table**

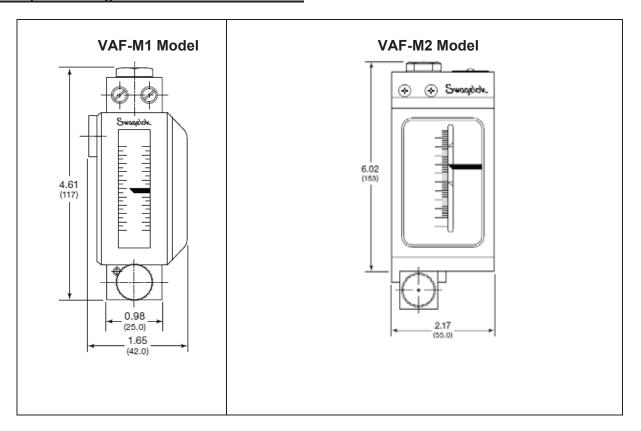
Model	Material	Port Connections and Sizes	Max. Inlet Pressure at 70° F (psig)	Min. Temperature Rating (°F)	Max. Temperature Rating (°F)	Design Code of Construction
VAF-M1	316L SS	NPT 1/4"	1885	-4	302	ASME B31.3
VAF-M2	316L SS	NPT 1/4"	1885	-4	302	ASME B31.3



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 pressuretemperature 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

Canadian Registration Number Submittal Page 1 of 1

## **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 NEW BRUNSWICK NUNAVUT NOVA SCOTIA YUKON PRINCE EDWARD ISLAND NORTHWEST TERRITORIES NEWFOUNDLAND AND LABRADOR

A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers  B Flanges: all flanges C Valves: all flane valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps B Measuring devices, including pressure gauges, level gauges, eight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on bollers, pressure vessels, piping and fusible plugs H Pressure relating components that do not fall into one of the above categories N Nuclear components: Class 1 □ Class 2 □ Class 3 □, (Meeting AECB or ASME requirements)  HOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT  TYPE OF CONSTRUCTION	MANUFACTURERS NAME: Swagelok Company		
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Canadian Registration Number Submittal
Category F: Swagelok M4, M4H Variable Area Flowmeters

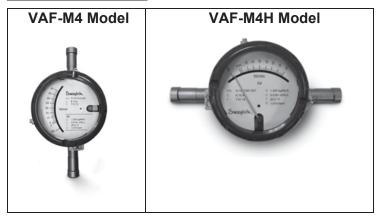
March 24, 2021 Page 1 of 2

# 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

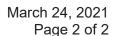
Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

#### **Summary Table**

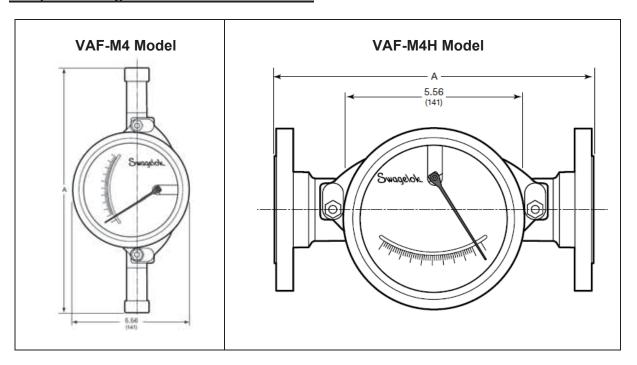
Model	Material	Port Connections and Sizes	Max. Inlet Pressure at 70° F (psig)	Min. Temperature Rating (°F)	Max. Temperature Rating (°F)	Design Code of Construction
VAF-M4 (1/2 inch dia. Tube)	316L SS	NPT 1/2", 3/4" ASME flange 1/2", 3/4", 1"	2888	-40	572	ASME Section VIII Division 1, ASME B31.1, ASME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





Canadian Registration Number Submittal Category F: Swagelok M4, M4H Variable Area Flowmeters

#### **Sample Drawings with Nominal Dimensions**



#### **Product Options**:

Additional options and non-pressure boundary alterations that do not affect the pressuretemperature 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