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NUNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAME	Swagelok Company		
MANUFACTURERS ADDR	CONTRACTION AND A CONTRACT	, Solon, Ohio 44139 USA	
PLANT LOCATIONS: He	adquarters: 29500 Solon	Road, Solon, Ohio 44139 USA (See Att	achment A)
CATEGORY OF	FITTINGS TO BE REGISTER	D. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
EMeasuring devices, Inclu	ding pressure gauges, level ga	uges, sight glasses, levels, or	
M Nuclear components; C	a, piping and fusible plugs onents that do not fall into one hass 1	D. (Meeting AECB or ASME requirements)	
G Cartifled capacity-rated p boilers, pressure vessel H Pressure retaining comp N Nuclear components: C	a, piping and fusible plugs onents that do not fall into one hass 1	of the above calegories	TYPE OF CONSTRUCTION FORGED D WELDED D WROUGHT M CAST D OTHER D DESCRUBE OTHER:

## DECLARATION:

1 Joel Feldman, Vice President, Engineering (see rets 2) employed by Swageld responsibility for the quality of the end product do solemnly declare tha my knowledge represents the product for which registration is sought, temperature ratings, and identification markings are in accordance with manufacture of these fittings is regulated by a Quality Control Program or in part and has been verified by <u>BSI</u> declaration conscientious/obelieving it to be true, and knowing that it is Signature of Declarer:	at the information contained in this form is true and to the best of The dimensions, materials of construction, pressure in the herein named standards. I further declare that the which extends to each plant where fabrication occurs in whole as being suitable for that purpose and I make this solemn s of the same force and effect as If made under oath.
Declared before me at Unable to get a notary	USETHIS SPACE FOR THE
This day of signature or Seal due to Commissioner of Oaths or Notary Public: (sign) COVID-19 situation (Affix Official seal to the right)	OFFICIAL SEAL
This space for Regulate This registration must be revalidated after ten CRN: <u>OF21398</u> , <u>2</u> FID#: <u>1214</u> Notes: 1. All fittings shall be registered in the name of the Manufacturar. 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 rasponsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum Interval of five (5) years.	

at a maximum Interval of five (5) years.

CRN 0F21398.2; EXP. DATE 2031-04-14; ABSA TR# 2021-01641



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.

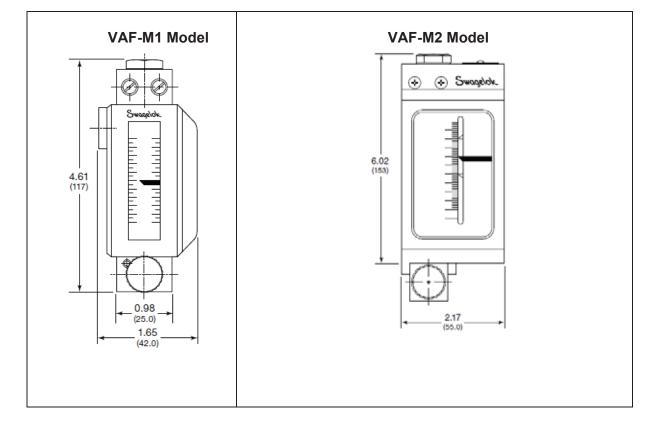
## Summary Table

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 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

## CRN 0F21398.2; EXP. DATE 2031-04-14; ABSA TR# 2021-01641

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
MANUFACTURERS NAME	E: Swagelok Company		
MANUFACTURERS ADDR	RESS: 29500 Solon Road, S	Solon, Ohio 44139 USA	
PLANT LOCATIONS: He	adquarters: 29500 Solon R	oad, Solon, Ohio 44139 USA (See A	ttachment A)
CATEGORY OF	FITTINGS TO BE REGISTERED.	CIRCLE ONE CATEGORY ONLY	TIPLE OF THE STANDARD OF CONSTRUCTS
B Flanges: all flanges C Valves: all line valves D Expansion joints, flaxible E Streiners, filters, separa Measuring devices, inclu- pressure transmitters G Certified capacity-rated bollers, prossure vassel H Pressure retaining comp	uding pressure gauges, level gaug preasure relief devices ecceptable is, piping and fusible plugs ponents that do not fail into one of	co: all types as, sight glasses, levels, or as primary over pressure protection on the above categories	ASME VIII Div 1, ASME B31.1, ASME B31.3
N Nuclear components: C	lass 1 🗆 Class 2 🗆 Class 3 🗔,	(Meeting AEC8 or ASME requirements)	
Sw	adelok	O AS IT WILL APPEAR ON THE PRODUC	T DYPE OF CONSTRUCTION PORGED D WELDED O WAGUGHT & CAST D OTHER D DESCRUBE OTHER
ISO 9001:2015 Certific	ate, Attachment A, Attachment	t B, Catalog Information and other Supp	port Documents
DECLARATION: Joel Feidman, Vice President esponsibility for the qual ny knowledge represents emperature ratings, and meanufacture of these fittle or in part end has been v declaration conscientious Signature of Declarer.	Engineering (see rese 3) employed ity of the end product do solen s the product for which registra identification markings are in a naps is regulated by a Quality O arified by BSI by belleving it to be true, and k Aut Cauta 3/2	by <u>Swagelok Company</u> and the nnly declare that the information contain the sought. The dimensions, mater accordance with the herein named stam control Program which extands to each as being sultable for mowing that it is of the same force and 20/2021   4:16 PM EDT	being the person having full authority ned in this form is true and to the bes fals of construction, pressure dards. I further declare that the plant where fabrication occurs in who that numbers and L cases this selector
DECLARATION: Joel Feidman, Vice President esponsibility for the qual ny knowledge represents emperature ratings, and meanufacture of these fittle or in part end has been v declaration conscientious Signature of Declarer.	Engineering (see ress 3) employed ity of the end product do solen s the product for which registra identification markings are in a ngs is regulated by a Quality C erified by <u>BSI</u> by believing it to be true, and k	by <u>Swagelok Company</u> and the nnly declare that the information contain the sought. The dimensions, mater accordance with the herein named stam control Program which extands to each as being sultable for mowing that it is of the same force and 20/2021   4:16 PM EDT	being the person having full authority ned in this form is true and to the bes fels of construction, pressure dards. I further declare that the plant where fabrication occurs in who that numbers and Locks this soleron
DECLARATION: Joel Feldman, Vice President esponsibility for the qual ny knowledge represent emparature ratings, and nanufacture of these fittle or in part end has been v declaration conscientious Signature of Declarer: Declared before me at Chis day of Commissioner of Oatha	Engineering (ress reas 3) employed ity of the end product do solen s the product for which registra identification markings are in a nas is regulated by a Quality C erified by BSI ity belleying it to be true, and is which are 3/2 Unable to get a r	by <u>Swagelok Company</u> and the information contained accordance with the herein named stant control Program which extends to each as being suitable for moving that it is of the same force and to 20/2021   4:16 PM EDT to fary. USETHI OFF	being the person having full authority ned in this form is true and to the bes dards. I further declare that the plant where fabrication occurs in who that purpose and I make this solemn effect as if made under oath.
DECLARATION: Jeel Feldman, Vice President responsibility for the qual my knowledge represent emparature ratings, and manufacture of these fitti or in part end has been v declaration conscientious Signature of Declarer: Declared before me at This day of Commissioner of Oatha or Notary Public: (sign)	Engineering (see reas 3) employed ity of the end product do solen is the product for which registra identification markings are in a ngs is regulated by a Quality O erified by BSI by belleving it to be true, and k March 3/2 Unable to get a r signature or Seal COVID-19 situa (Affic Official seat to the right)	by Swagelok Company and t nnly declare that the Information contain thon is sought. The dimensions, material accordance with the herein named stan control Program which extends to each as being suitable for moving that it is of the same force and 20/2021   4:16 PM EDT 10/2021   4:16 PM EDT 10/2021   0 F F 10/2021   0 F F	being the parson having full authority ned in this form is true and to the bes lais of construction, pressure dards. I further declare that the plant where fabrication occurs in who that purpose and I make this solemn effect as if made under oath. S S P A C E F O R T H E I C I A L S E A L
DECLARATION: Joel Feldman, Vice President responsibility for the quai my knowledge represent temparature ratings, and manufacture of these fitti or in part end has been v declaration conscientious Signature of Declarer. Declared before me at This day of Commissioner of Oatha or Notary Public: (sign)	Engineering (see rese 3) employed ity of the end product do solen is the product for which registra identification markings are in a nas is regulated by a Quality C arified by BSI thy belleying it to be true, and k Mark Carry 3/2 Unable to get a 1 Signature of Seal COVID-19 situa (Aritx Official seat to the right This a This registration must be revel	by <u>Swagelok Company</u> and the information contained accordance with the herein named stant control Program which extends to each as being suitable for mowing that it is of the same force and co/2021   4:16 PM EDT <b>Infary</b> USETHI <b>ducto</b> OFF	being the parson having full authority ned in this form is true and to the bes lais of construction, pressure dards. I further declare that the plant where fabrication occurs in who that purpose and I make this solemn effect as if made under oath. S S P A C E F O R T H E I C I A L S E A L



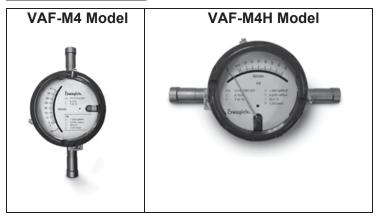
Canadian Registration Number Submittal Category F: Swagelok M4, M4H Variable Area Flowmeters March 24, 2021 Page 1 of 2

# 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

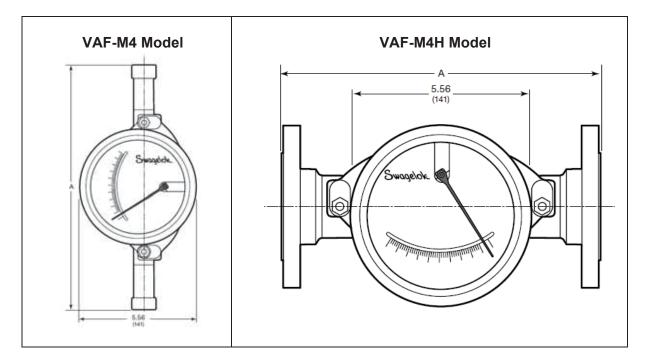
## Summary Table

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 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

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

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

