DocuSign Envelope ID: 9339D205-3425-4828-81BF-0C80D16CF112 ORM FOR THE REGISTRATION OF FITTING DESIGNS

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MANUFACTURERS NAME:	Swagelok Company		
MANUFACTURERS ADDRE	SS: 29500 Solon Road	d, Solon, Ohio 44139 USA	
PLANT LOCATIONS: Hear		n Road, Solon, Ohio 44139 USA (Se	e Attachment A)
CATEGORY OF F	ITTINGS TO BE REGISTER	ED. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible E Strainers, filters, separato Measuring devices, includ pressure transmitters G Certified capacity-rated pi bollers, pressure vessels.	connections, and hose assen ors, and steam traps ling pressure gauges, level gi	auges, sight glasses, levels, or able as primary over pressure protection on	ASME B31.3
		 of the above categories (Meeting AECB or ASME requirements) 	
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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.

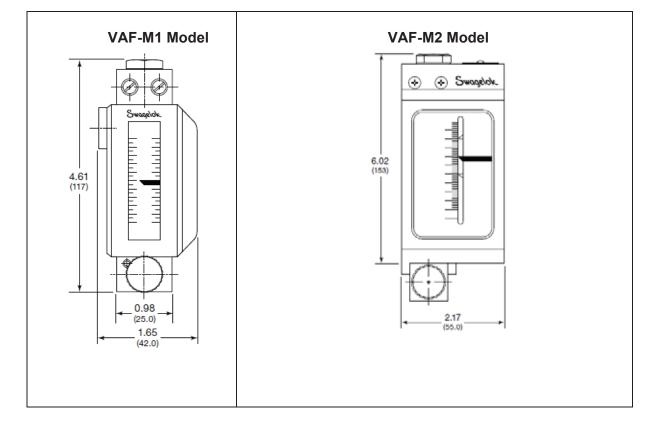
Summary Table

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

	NOVA SCOTIA YUKON	PRINCE EDWARD NORTHWEST TER		NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAM	E: Swagelok Company			
MANUFACTURERS ADD		, Solon, Ohio 44139 L	SA	
PLANT LOCATIONS: He	eadquarters: 29500 Solon	Road, Solon, Ohio 44	139 USA (See	Attachment A)
CATEGORY OF	FITTINGS TO BE REGISTERE	D. CIRCLE ONE CATEGO	RYONLY	TITLE OF THE STANDARD OF CONSTRUCTIO
 B Flanges: all flanges C Valves: all line valves D Expansion joints, flexib E Strainers, filters, separa D Measuring devices, incipressure transmitters G Certified capacity-rated bollers, pressure vesset H Pressure retaining communication 	luding pressure gauges, level ga I pressure relief devices accepta els, piping and fusible plugs uponents that do not fall into one	blies: all types uges, sight glasses, levels, ble as primary over pressur of the above categories	or e protection on	ASME VIII Div 1, ASME B31.1, ASME B31.3
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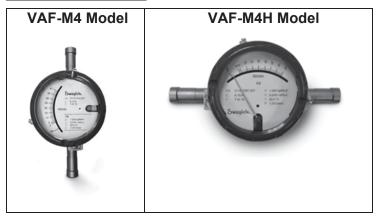
Canadian Registration Number Submittal Category F: Swagelok M4, M4H Variable Area Flowmeters March 24, 2021 Page 1 of 2

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

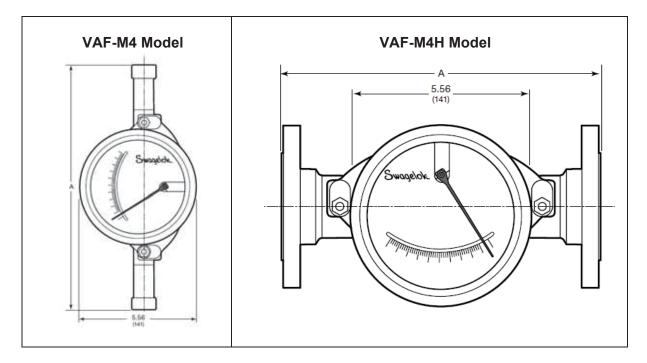
Summary Table

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 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

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

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

