



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX FMG 25.0014X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2025-07-07		
Applicant:	Valmet Flow Control Inc. 26271 US Hwy 59, Fergus Falls, MN 56537 United States of America		
Equipment:	Stonel Eclipse EC Model 45S Valve Position Monitor		
Optional accessory:			
Type of Protection:	Intrinsic Safety		
Marking:	Ex ia IIC T5 Ga Tamb = -40°C to +80°C Ex ia IIC T6 Ga Tamb = -40°C to +65°C IP66, IP67		

Approved for issue on behalf of the IECEx
Certification Body:

J. E. Marquedant

Position:

VP, Manager - Electrical Systems

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

FM Approvals LLC
One Technology Way
Norwood MA 02062
United States of America

FM Approvals



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Manufacturer: **Valmet Flow Control Inc.**
26271 US Hwy 59,
Fergus Falls, MN 56537
United States of America

Manufacturing
locations: **Valmet Flow Control Inc.**
26271 US Hwy 59,
Fergus Falls, MN 56537
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[US/FMG/ExTR25.0013/00](#)

Quality Assessment Report:

[GB/FME/QAR22.0013/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General

The Stonel Eclipse Valve Position Monitor is designed to be attached to various valve/actuator assemblies to communicate and control its position.

Mechanical

The circuitry for the Stonel Eclipse EC Series Valve Position Monitors is located inside of a polymeric housing having a tool secured polymeric threaded cover on the top side. The field wiring terminals are located under the cover. The housing is approximately 6.2" (160mm) in length by 3.1" (80mm) wide by 2" (50mm) in height. The left and right side of the housing contains a threaded port for 1/2" NPT or M20 conduit entry.

Electrical

For type of protection intrinsic safety, connections can only be made by connecting certified associated Intrinsically Safe apparatus having energy limitation parameters. The output of the associated apparatus shall not exceed the Energy Limitation Parameters for the Model Eclipse EC 45S Valve Position Monitor as shown below.

Open and Closed Sensor Indication Power terminals

$U_i \leq 22V_{dc}$, $I_i \leq 120mA$, $P_i \leq 400mW$

Solenoid Power Terminals

$U_i \leq 28V_{dc}$, $I_i \leq 120mA$

Environmental

The enclosures are rated for ingress protections IP66 and IP67.

The Stonel Eclipse EC Series Valve Position Monitors are rated for an ambient temperature range of -40°C to +65°C and +80°C.

Model Code Structure:

EC45Sabcde. Stonel Eclipse EC Valve Position Monitor.

a = Enclosure: C

b = Conduit entries: 02, 05, 10, 11, 12, 13, 14, 15, 16, 30, 31, 32, 33, 34, 35, 36, or 38.

c = Visual Indication: X, G, R, 1 or 2

d = Branding: A.

e* = Special Options: Blank or a dash symbol (-) followed with up to 5 alpha and/or numeric identification digits after model number for special and marketing purposes. Option digits are not normally applied.

*Special Option digits are not verified by FM Approvals and are permitted when they do not affect the integrity of the housing, electrical, or marking of the product with respect to hazardous locations certification.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned with a damp cloth.