



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 SIR 17.0069X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2020-04-21) Issue 0 (2017-09-18)
Date of Issue:	2024-03-22		
Applicant:	Valmet Flow Control Oy Vanha Porvoontie 229 Vantaa FI-01380 Finland		
Equipment:	NDX...2.. Valve controller.		
Optional accessory:			
Type of Protection:	Flameproof db and Dust Protection by Enclosure tb		
Marking:	Ex db IIC T* Gb Ex tb IIIC T85...T113°C Db T4: -40°C to +85°C T5: -40°C to +72°C T6: -40°C to +57°C		

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Director Operations, UK & Industrial Europe

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:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Manufacturer: **Valmet Flow Control Oy**
Vanha Porvoontie 229
Vantaa FI-01380
Finland

Manufacturing
locations: **Valmet Flow Control Oy**
Vanha Porvoontie 229
Vantaa FI-01380
Finland

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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 Reports:

GB/SIR/ExTR17.0178/00

GB/SIR/ExTR20.0077/00

GB/SIR/ExTR24.0036/00

Quality Assessment Report:

NO/DNV/QAR09.0008/15



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The NDX...2.. Intelligent valve controller is comprised of a base and cover with an approximate internal volume of 450 cm³ and is manufactured from cast aluminium EN AC-43400 and EN AC-42100 with a circular window cemented and additionally secured in the lid. The lid is secured using four M8 x 25mm Captive fasteners. The enclosure is divided with the electronics in the Ex d portion and the pneumatic relay situated outside the Ex d portion. Non-flammable process air is supplied at 8 bar to the equipment through a containment system fitted with both flow limiters and flame arrestors. The enclosure is provided with breathers to maintain the internal pressure below 1.1 times atmospheric pressure. The enclosure meets the requirements for IP66. Power is supplied by a 4-20mA current (maximum 30VDC), either taken from the control signal or as a direct mA control signal, and uses the supply pressure to control valve position by means of regulating the actuator pressure.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- i. Lid securing fasteners must be supplied by the product manufacturer and be property class A4-80.
- ii. The NDX has a non-conducting coating and may generate an ignition-capable level of electrostatic charge under certain extreme conditions. The user shall ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment shall only be done with a damp cloth.
- iii. Maximum surface temperatures for each ambient temperature are listed below:

Ambient Temperature

-40°C to +85°C

-40°C to +72°C

-40°C to +57°C

Maximum Surface Temperature

T113°C

T95°C

T85°C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 – this Issue introduced the following change:

1. The certificate holders and Manufacturers name was changed:
From: Metso Flow Control OY
To: Neles Finland OY

Issue 2 – this Issue introduced the following change:

1. To change the company name:
From: Neles Finland Oy
To: Valmet Flow Control Oy