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Type Examination Certificate

for Electrical Equipment used in Potentially Explosive Atmosphere

Issued by Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK		
Applicant	Valmet K.K 2-5-8, Higashishinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan	
Manufacturer name	Valmet Flow Control Oy Vanha Porvoontie 229, 01380 Vantaa, Finland	
Product name	Valve controller	
Type/model code	NDX...2.. Refer to attachment 1	
Type of protection	Flameproof, protection by enclosure (dust)	
Group, Temperature Class and EPL	IIC T6...T4 Gb	
The equipment shall be marked with the following	Ex d IIC T6...T4 Gb Ex tb IIIC T85°C...T113°C Db	
Ratings	30Vdc 4-20mA Ta = T6:-40 +57°C, T5:+72°C, T4:+85°C	
Special condition for safe use	Refer to attachment 2	
Certificate number	CML 17JPN1295X	
Term of validity	From 30-11-2017 to 29-11-2020	
	From 30-11-2020 to 29-11-2023	
	From 30-11-2023 to 29-11-2026	

This is to certify that the equipment specified above complies with the requirements stipulated in Ordinance on Examination of Machines and Other Equipment of the Ministry of Health, Labour and Welfare, Japan.

Issue date: 30-11-2023

Signature of chief examiner:

Attachment 1: Model code breakdown

1. sign		PRODUCT GROUP
NDX		Neles Intelligent Valve Controller Series NDX
2. sign		PNEUMATIC ACTION
1		Single Acting
2		Double Acting
3. sign		PNEUMATIC CAPACITY
5		Normal Capacity (80 Nm ³ /h)
4. sign		FAIL ACTION
1		Fail safe
5. sign		ENCLOSURE
0		Compact - Aluminum with Composite Cover (Available with 2. sign 1)
1		Standard - Aluminum with Composite Cover (pending)
2		Flameproof/Explosion Proof - Aluminum
6. sign		COMMUNICATION / INPUT SIGNAL RANGE
H		HART / 4-20 mA
T		HART / 4-20 mA and 4-20 mA Position Transmitter
N		4 - 20 mA (No HART)
M		4 - 20 mA and Position Transmitter (No HART)
D		HART / 4-20 mA + 2 x DO (Namur)
L		HART / 4-20 mA + PT + DO (Namur)
7. sign		TEMPERATURE RANGE
G		General: -40...+85 °C
8. sign		
9. sign		APPROVALS FOR HAZARDOUS AREAS (1/2)
N		No approval
X		IECEX / ATEX Ex i certifications (5. sign 0, 1, 2)
E		ATEX / IECEX Ex d certification (5. sign 2) (pending)
U		cCSAus Ex i certifications (5. sign 0, 1, 2)
F		cCSAus Ex d certifications (5. sign 2) (pending)
K		KOSHA Ex d certification (5. sign 2)
10. sign		APPROVALS FOR HAZARDOUS AREAS (2/2)
N		No approval
X		ATEX / IECEX Ex i certifications (5. sign 0, 1, 2)
E		ATEX / IECEX Ex d certification (5. sign 2) (pending)
U		cCSAus Ex i certifications (5. sign 0, 1, 2)
F		cCSAus Ex d certifications (5. sign 2) (pending)
C		Nepsi Ex i certifications (5. sign 0, 1, 2)
D		Nepsi Ex d certifications (5. sign 2) (pending)
K		KOSHA Ex d certification (5. sign 2)
J		JIS Ex d certification (5. sign 2)



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Attachment 2: Special conditions for safe use

- 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	Maximum Surface Temperature
-40°C to +85°C	T113°C
-40°C to +72°C	T95°C
-40°C to +57°C	T85°C