CML 19JPN1284X
Issue: 6

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	ND***** See attachment 1				
Type of protection	Flameproof, dust protection				
Group, Temperature Class and EPL	IIC T6 Gb IIIC T80°C Db				
The equipment shall be marked with the following	Ex d IIC T6 Gb Ex tb IIIC T80°C Db				
Ratings	DC 30V 4 – 20mA				
Special condition for safe use	See attachment 2				
Certificate number	**CML 19JPN1284X**				
Term of validity	From	20-06-2019	to	19-06-2022	
	From	20-06-2022	to	19-06-2025	
	From	20-06-2025	to	19-06-2028	

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: 16-02-2026

Signature of chief examiner:

Attachment 1: Type/model

Product Type Ref:

AABCDDEFFG/HHH

AA Product Group

ND= Neles Digital, Intelligent Valve Controller.

B Series code
9 = Series 9000
7 = Series 7000

C Enclosure
2 = Aluminium IP66 enclosure.
3 = Stainless steel IP66 enclosure.

DD Spool valve and connections.
02 = Low Capacity
03 = Medium Capacity
06 = High capacity

E Communication/ input signal range
H = HART.
F = Foundation Fieldbus.
P = Profibus PA

FF Approvals
E4 = Japanese EX certification

G Options for valve controller
T= Ui = 30 V, Pmax = device limits itself, external load resistance 0-780 ohm (position transmitter).
J = External junction box, 2 pcs M20x1.5 conduit entry.
ND_H_J: External junction box for all 4-20 mA wirings, including position transmitter, if applicable. Junction box is attached to the enclosure, 2 pcs M20x1.5 conduit entry.
ND_F_J, ND_P_J: External junction box for wirings, including option for parallel connection of external surge protector.
Junction box is attached to the enclosure, 2 pcs M20x1.5 conduit entry.
M = Special corrosion resistant finish. External aluminium surfaces protected by hard anodizing with PTFE.
Vxx = Branded for OEM distributors (V00...V099)
G (exhaust adapter)
Y (special construction to be specified)

HHH Options for valve controller (See table below)

2-wire, DC voltage proximity switches:		
Limit switch code	**Electric data**	**No. of switches**
I02	Ui: 16 V, Ii: 52 mA, Pi:169 mW	2
I03	Ui: 16 V, Ii: 52 mA, Pi 169 mW	2
I04	Ui: 16 V, Ii: 52 mA, Pi 169 mW	2
I09	Ui: 16 V, Ii: 52 mA, Pi 169 mW	2
I54	12-24 V DC, < 100 mA	2
I56	10-36 V DC, < 150 mA	2
I57	Ui: 16 V, Ii: 52 mA	2
I58	Ui: 16 V, Ii: 52 mA	2
I41	Ui: 16 V, Ii: 52 mA	2
3-wire, DC voltage proximity switches:		
Limit switch code	**Electric data**	**No. of switches**
I11	10-60 V DC, < 200 mA	2
I21	10-60 V DC, < 200 mA	2
I45	Ui: 16 V DC, Ii: 52 mA, Pi 169 mW	2
I59	U: 10-30 V DC, Imax: 200 mA	2
I60	U: 10-30 V DC, Imax: 200 mA	2
2-wire, AC voltage proximity switches:		
Limit switch code	**Electric data**	**No. of switches**
I32	24-240 V AC, < 200 mA	2
I34	24-240 V AC, < 200 mA	2

DC/AC voltage micro switches:		
Limit switch code	**Electric data**	**No. of switches**
K05	3 A - 250 V AC, 0.4 A - 125 V DC, 5 A - 30 V DC	2/4
K06	100 mA - 30 V DC / 125 V AC	2/4
K25	3 A - 250 V AC, 0.4 A - 125 V DC, 5 A - 30 V DC	2
K26	100 mA - 30 V DC / 125 V AC	2

K45	3 A - 250 V AC, 0.4 A - 125 V DC, 5 A - 30 V DC	4
K46	100 mA - 30 V DC / 125 V AC	4
B06	BUS POWERED, NO EXTERNAL POWER NEEDED	2
Reed type proximity switches:		
Limit switch code	**Electric data**	**No. of switches**
R01	300 mA, 24 V DC; 200 mA, 125 V AC	2
R02	150 mA, 24 V DC	2
R04	Vmax 24VDC, Imax 3A, Wmax 2.5W	2
R35	4 A - 120 V AC, 3 A - 24 V DC	2
Diagnostic signal position transmitters:		
Limit switch code	**Electric data**	**No. of switches**
T01	Vmax: 40 V DC, I: 4-20 mA	2

Electrical data

Type ND.....H..E4./...
Input current circuit Unom ≤ 30 V d.c.
Terminals +/- Pnom ≤ 1.0 W
Position encoder, optional Unom ≤ 30 V d.c.
Terminals +/- Inom ≤ 20 mA Pnom ≤ 1.0 W

Type ND.....P..E4./...
Fieldbus Unom ≤ 32 V d.c.
Terminals H1 +/- Inom ≤ 380 mA
Pnom ≤ 5320 mW

Attachment 2: Special conditions of use

i. Some external parts of the system are non-conducting and may generate an ignition-capable level of electrostatic charges 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 should be done with a damp cloth.

ii. When the equipment is installed in a dust explosive environment the user shall ensure that an accumulation of excessive dust layers on the enclosure is prevented.

iii. The full assembly is to have a maximum power draw of less than 2.5 W

iv. Blanking elements shall not be used with an adapter.