



Certificate of Compliance

Certificate:	80095494	Master Contract:	168668
Project:	80273282	Date Issued:	2025-12-15
Issued to:	Valmet Flow Control Oy Vanha Porvoontie 229 Vantaa, Uusimaa 01380 Finland	Issued by:	<i>Oong Lee</i> Oong Lee

Attention: Jari Lepisto

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



PRODUCTS

Class 2258 02 PROCESS CONTROL EQUIPMENT - For Hazardous Locations
Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations
Class 2258 82 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards
Class 2258 84 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups A, B, C, D T4/T5/T6
Class II, Division 1, Groups E, F, G T20085°C ... T200115°C
Class III Division 1 T20085°C ... T200115°C
Ex ia IIC T4/T5/T6 Ga
Ex ia IIIC T20085°C ... T200115°C Da
Class I, Zone 0, AEx ia IIC T4/T5/T6 Ga
Class I, Zone 20, AEx ia IIIC T20085°C ... T200115°C Da



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Model(s)
Valve Positioner NDX---0, NDX---1 and NDX---2

NDX mA and PT loop interfaces with input parameters $U_i (V_{max}) \leq 28 \text{ V}$, $I_i (I_{max}) \leq 120 \text{ mA}$, $P_i \leq 1.0 \text{ W}$, $C_i < 3.7 \text{ nF}$, $L_i < 10.9 \mu\text{H}$;

NAMUR-DO1 and NAMUR-DO2 interfaces (NDX---2 and NDX---1 only) with input parameters $U_i (V_{max}) \leq 16 \text{ V}$, $I_i (I_{max}) \leq 25 \text{ mA}$, $P_i \leq 100 \text{ mW}$, $C_i < 23.4 \text{ nF}$, $L_i < 27.8 \mu\text{H}$

Enclosure Type 4X, IP66

NDX---0 intrinsically safe when installed as per F105207

NDX---1 and NDX---2 intrinsically safe when installed as per F105208

Notes:

1. "DO" is for NDX___1 and NDX___2 only.
2. The above model is permanently connected, Equipment Class I, Pollution Degree 2, Overvoltage Category I.
3. Mode of operation: Continuous
4. Environmental Conditions: Normal: $-40^\circ\text{C} \leq T_a \leq +85^\circ\text{C}$, 2000 m max, 80% to temperatures up to 31°C decreasing linearly to 50% R.H. at 40°C or extended as specified above.

Conditions of Acceptability:

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Hazloc

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1. The maximum allowed ambient temperature ranges for level of protection "ia" and "ib" according to different T Classes are:
 - $40^\circ\text{C} \leq T_a \leq +50^\circ\text{C}$ for temperature class T6(IIC) or $T_{200}85^\circ\text{C}$ for dust (IIIC)
 - $40^\circ\text{C} \leq T_a \leq +65^\circ\text{C}$ for temperature class T5(IIC) or $T_{200}100^\circ\text{C}$ for dust (IIIC)
 - $40^\circ\text{C} \leq T_a \leq +80^\circ\text{C}$ for temperature class T4(IIC) or $T_{200}115^\circ\text{C}$ for dust (IIIC)
2. The maximum allowed ambient temperature ranges for level of protection "ic" according to different T Classes are:
 - $40^\circ\text{C} \leq T_a \leq +50^\circ\text{C}$ for temperature class T6(IIC) or $T_{200}85^\circ\text{C}$ for dust (IIIC)
 - $40^\circ\text{C} \leq T_a \leq +65^\circ\text{C}$ for temperature class T5(IIC) or $T_{200}100^\circ\text{C}$ for dust (IIIC)
 - $40^\circ\text{C} \leq T_a \leq +85^\circ\text{C}$ for temperature class T4(IIC) or $T_{200}115^\circ\text{C}$ for dust (IIIC)
3. The permissible ambient temperature range depends on the used configuration. The ambient temperature range is marked on the identification plate.
4. At an ambient temperature $\geq +60^\circ\text{C}$, the temperature rating of the connection cable shall be in accordance with maximum ambient temperature range.
5. Temperature Classes for dust are based on measurement w.r.t. total immersion to dust required for Da equipment.
6. The valve controller shall be connected according to the manufacturer's instructions.
7. The impact test of NDX___0 enclosure was made according to low risk of mechanical danger. The device shall be protected from high level impacts.
8. The plastic covers in the NDX___0/1 enclosures shall be wiped with damp cloth only due to risk of electrostatic charging.
9. Selected cable glands shall conform to the requirements of CAN/CA C22.2 No. 60079-0 and UL 60079-0.

Ordloc



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1. The equipment shall be supplied by a Limited Power Source or Class 2 output in accordance with CEC Part 1, Rule 16-200 and NFPA 70, Article 725.121.
2. The equipment has only been tested for safety. No evaluation of functional safety and performance characteristics has been conducted.
3. Equipment is only to be installed by trained and qualified personnel.
1. If at any time there is a conflict between the system safety provisions and any relevant local (national or regional) requirements, the local requirements always take precedence.
2. Equipment is not to be used with flammable liquids.
6. The equipment is provided with cable gland entries with or without an adapter. Blanking plugs, cable glands, conduit hubs or fittings, shall be appropriately approved under Type 4X and IP66, when used with the equipment.

Class I, Division 2, Groups A, B, C, D T4/T5/T6,

Ex ec IIC T4/T5/T6 Gc

Class I, Zone 2 AEx ec IIC T4/T5/T6 Gc

Model(s)
Valve Positioner NDX---0, NDX---1 and NDX---2

mA and PT loop interfaces $U_{max} \leq 28V$

NAMUR-DO1 and NAMUR-DO2 interfaces (NDX---2 and NDX---1 only) $U_{max} \leq 16V$

Enclosure type 4X, IP66

Notes:

1. "DO" is for NDX__ 1 and NDX__ 2 only.
2. The above model is permanently connected, Equipment Class I, Pollution Degree 2, Overvoltage Category I.
3. Mode of operation: Continuous
4. Environmental Conditions: Normal: $-40^{\circ}C \leq T_a \leq +85^{\circ}C$, 2000 m max, 80% to temperatures up to $31^{\circ}C$ decreasing linearly to 50% R.H. at $40^{\circ}C$ or extended as specified above.

Conditions of Acceptability:

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Hazloc

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1. The maximum allowed ambient temperature ranges for level of protection "ec" according to different T Classes are:
 - $-40^{\circ}C \leq T_a \leq +50^{\circ}C$ for temperature class T6(IIC) or $T_{200}85^{\circ}C$ for dust (IIIC)
 - $-40^{\circ}C \leq T_a \leq +65^{\circ}C$ for temperature class T5(IIC) or $T_{200}100^{\circ}C$ for dust (IIIC)
 - $-40^{\circ}C \leq T_a \leq +85^{\circ}C$ for temperature class T4(IIC) or $T_{200}115^{\circ}C$ for dust (IIIC)
2. The permissible ambient temperature range depends on the used configuration. The ambient temperature range is marked on the identification plate.
3. At an ambient temperature $\geq +60^{\circ}C$, the temperature rating of the connection cable shall be in accordance with maximum ambient temperature range.
4. Temperature Classes for dust are based on measurement w.r.t. total immersion to dust required for Da equipment.



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5. The valve controller shall be connected according to the manufacturer's instructions.
6. The impact test of NDX___0 enclosure was made according to low risk of mechanical danger. The device shall be protected from high level impacts.
7. The plastic covers in the NDX___0/1 enclosures shall be wiped with damp cloth only due to risk of electrostatic charging.
8. Selected cable glands shall conform to the requirements of CAN/CA C22.2 No. 60079-0 and UL 60079-0.
9. For level of protection "ec" provision shall be made to provide the transient protection at a level not exceeding 40% of the rated supply voltage.

Ordloc

1. The equipment shall be supplied by a Limited Power Source or Class 2 output in accordance with CEC Part 1, Rule 16-200 and NFPA 70, Article 725.121.
2. The equipment has only been tested for safety. No evaluation of functional safety and performance characteristics has been conducted.
3. Equipment is only to be installed by trained and qualified personnel.
1. If at any time there is a conflict between the system safety provisions and any relevant local (national or regional) requirements, the local requirements always take precedence.
2. Equipment is not to be used with flammable liquids.
6. The equipment is provided with cable gland entries with or without an adapter. Blanking plugs, cable glands, conduit hubs or fittings, shall be appropriately approved under Type 4X and IP66, when used with the equipment.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 60079-0:19 - Explosive atmospheres - Part 0: Equipment - General requirements

CAN/CSA-C22.2 No 60079-11:14 - Explosive Atmospheres - Part 11: Equipment protection by intrinsic safety 'I'

CAN/CSA C22.2 No. 60079-7:16 + AMD1:2018 (R2021) - Explosive atmospheres - Part 7: Equipment protection by increased safety 'e'

ANSI/UL 60079-0-2019 - Standard for Safety for Explosive Atmospheres - Part 0: General Requirements

ANSI/UL 60079-11-2013 - Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "I"

UL 60079-7:2017 - Fifth Edition - Explosive Atmospheres - Part 7: Equipment Protection by Increased Safety 'e'

CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018 - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements

UL 61010-1 3rd ed (Rev. Nov 21, 2018) - UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements - Third Edition; Including Revisions through November 21, 2018

CSA C22.2 No. 94.2:20 - Third Edition - Enclosures for electrical equipment, environmental considerations

UL 50E:2020 - Third Edition - Enclosures for Electrical Equipment, Environmental Considerations

Markings



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The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

- CSA Mark with “C-US” indicator
- Company name and/or Master Contract number
- Manufacturer’s address
- Electrical Ratings
- Pressure Ratings
- Model name / number : As specified in the PRODUCT section above.
- Manufacturing date in MMY format, or serial number, traceable to year and month of manufacture.
- Base Type
- Gauge Block Option
- Temperature code rating : As specified in the PRODUCT section above.
- Ambient Temperature Range : As specified in the PRODUCT section above.
- Enclosure ratings and IP ratings : As specified in the PRODUCT section above.
- The designation CSA 24CA80095494X
- Hazardous location designation : As specified in the PRODUCTS section, above. The word “Class” may be abbreviated “CL”, the word “Division” may be abbreviated “DIV”, and the word “Groups” may be abbreviated “GRP” or “GP”.
- “Install per drawing XXXXX.”

Warnings:

-“WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY”, and “AVERTISSEMENT : LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE”.

-“WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE WHILE CIRCUIT IS LIVE UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS”, and “AVERTISSEMENT – RISQUE D’EXPLOSION. NE PAS RETIRER NI REMPLACER PENDANT QUE LE CIRCUIT EST SOUS TENSION À MOINS QUE L’EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES”

or equivalent, in both English and French.



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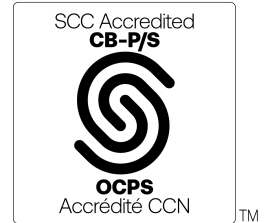
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Notes:

Products certified under Class(es) C225802, C225804, C225882, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80273282	2025-12-15	FIR follow-up, update to Report 80095494 to address (FC# 168669) FIR dated September 11, 2025, alternate components
80095494	2024-03-20	Prime certification of Valve Positioner NDX__0, NDX__1 and NDX__2