Certificate of Compliance

Certificate: 80217913 **Master Contract:** 273325

Project: 80217913 **Date Issued:** 2024-09-11

Issued to: **Innovative Actuation Incorporated**
1-215 Traders Boulevard East
Mississauga, Ontario, L4Z 3K5
CANADA

Attention: Frank Thormeyer

The products listed below 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 US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only

C US

Issued by: Amanda Tai

PRODUCTS

CLASS - 3228 02 VALVES-Actuators - For Hazardous Locations
CLASS - 3228 82 VALVES-Actuators - For Hazardous Locations-Certified to U.S. Standard

Ex db IIB T4 Gb (For Canada)
Ex tb IIIC T130˚C Db (For Canada)
Type 4X

Class I, Zone 1, AEx db IIB T4 Gb (For US)
Zone 21, AEx tb IIIC T130˚C Db (For US)
IP68 (72h, 7m)

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Model iVL-X1HEN-Y1Y2 series Explosion-proof Linear Valve Actuators, rated 240 Vac max, 1 A max, -30°C ≤ Tamb ≤ 65°C, T4, IP 68 (72h, 7m).

Where:
iVL-X1HEN-Y1Y2

iV stands for iVact.
L stands for Type.

X1 stands for thrust (lbf) / (kgf)
A – 550 lbf (250 Kgf)
B – 1100 lbf (500Kgf)
C – 2205 lbf (1000 Kgf)
D – 4410 lbf (2000 Kgf)

H stand for Handwheel manual override
E stand for Watertight & Explosionproof to CSA and Nema 4X Enclosure
N stand for none of local controls

Y1 stands for voltage
A - 24V AC
B - 24V DC
C - 110V AC
D - 220V AC

Y2 stands for Control / Duty / Action on Modulating Signal Loss
A - ON/OFF / 75% Duty (1200 starts per hour) / None
B - Modulating / 75% Duty (1200 starts per hour) / Hold in Last Position on Signal Loss
C - Modulating / 75% Duty (1200 starts per hour) / Fail Extend Downward on Signal Loss
D - Modulating / 75% Duty (1200 starts per hour) / Fail Retract Upward on Signal Loss

Specific Conditions of Use:

1. The end-user must ensure that any cable entry device used must maintain the IP rating of the enclosure.
2. The end user must ensure that any cable and cable entry devices used with the equipment are suitable for use at temperatures above 90°C.
3. The flamepaths in this equipment are different to the standard dimensions given in IEC 60079-1. If specific flamepath dimensions are required then the manufacturer (OEM) must be contacted.

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MARKINGS

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.

Marking is silk-screened on a rivet secured metal plate(s)

The label description is as follows:

- Submitter's name, or CSA Master Contract Number "273325", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings / Enclosure type designation: As specified in the PRODUCTS section, above. (Complete electrical rating in Volts, dc (for dc models) or Hz (for ac models), Amperes)
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMYY format, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above.
- Method of Protection markings: As specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
  CSA Mark with adjacent indicators 'C' and 'US' or 'US' or without either indicator
- Duty cycle (Maximum "on" & minimum "off" time)
- Maximum rated torque
- Enclosure type designation
- The rating of the contacts for the control of external loads
- A suitable wiring diagram to indicate the connections
- Grounding symbol adjacent to the grounding means
- The characters "CSA 24.80217913X" or "24.80217913X" when located adjacent to the CSA mark, designating the certification body, followed by the last two digits of the year of report issue, followed by a period, followed by the original report number, followed by the letter "X".
- The following or technically equivalent words:
  - "OPEN CIRCUIT BEFORE REMOVING COVER" or "KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE" or equivalent.
  - "SEAL REQUIRED WITHIN 2 INCHES (50 mm) OF ENCLOSURE"
  - "WARNING – AFTER DE-ENERGIZING, DELAY 10 MINUTES BEFORE OPENING"
  - "CAUTION- USE FASTENERS WITH YIELD STRESS ≥ 450MPa."

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APPLICABLE REQUIREMENTS

CSA C22.2 No. 94.2-07	Enclosures for Electrical Equipment, Environmental Considerations
CSA C22.2 No. 139-13	Electrically Operated Valves
CAN/CSA-C22.2 No. 60079-0:19 February 2019	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA-C22.2 No. 60079-1:16 May 2016	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
CAN/CSA-C22.2 No. 60079-31:15 Second Edition (October 2015)	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure “t”
ANSI/UL 50E First Edition (September 4, 2007)	Enclosures for Electrical Equipment, Environmental Considerations
UL 429 Seventh Edition (November 6, 2013)	Electrically Operated Valves
ANSI/UL 60079-0 Seventh Edition (March 26, 2019)	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-1 Seventh Edition (September 18, 2016)	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
ANSI/UL 60079-31 Second Edition (2015.06.12)	UL Standard for Safety Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”

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