Certificate of Compliance

Certificate: 70193270 **Master Contract:** 273325

Project: 80219172 **Date Issued:** 2025-01-17

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 3221 02 - VALVES - Actuators
CLASS 3221 82 - VALVES - Actuators - CERTIFIED TO U.S. STANDARDS

NOMENCLATURE

1. Models iVQ-abcd-ef, where:
   - iV: iV stands for iVact
   - Q: Q stands for Quarter-Turn Actuator.
   - a: Size (A stands for 6Nm; B stands for 15Nm; C stands for 35Nm; D stands for 50Nm; E stands for 65Nm; F stands for 90Nm: G stands for 120Nm; H stands for 150Nm; I stands for 300Nm; J stands for 400Nm; K stands for 500 Nm; L stands for 650Nm; M stands for 1000Nm; N stands for 1500Nm; O stands for 2000Nm; P stands for 2500Nm; Q stands for 3000Nm; R stands for 3500Nm; S stands for 4500Nm).
   - b: Manual Override (N stands for None; L stands for Lever; H stands for Handwheel; C stands for Chainwheel).
   - c: Enclosure Type (W stands for Watertight to CSA and NEMA 4X;
     E stands for Watertight & Explosion-proof to CSA and NEMA 4X, 7 & 9).
   - d: Local Controls (N stands for None; L stands for Local Controls).

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e: Voltage
(A stands for 24V AC;
B stands for 24V DC;
C stands for 110V AC or 120V AC;
D stands for 220V AC or 240V AC;
E stands for 220-240V AC/3;
F stands for 380-415V AC/3;
G stands for 440-480V AC/3;
H stands for 12V AC;
I stands for 12V DC).

f: Service / Duty
(A stands for ON/OFF / 30% Duty;
B stands for Modulating / 30% Duty;
C stands for ON/OFF / 50% Duty;
D stands for Modulating / 50% Duty;
E stands for ON/OFF / 75% Duty;
F stands for Modulating / 75% Duty).

2. Models iVS-abcd-ef, where:
iV: iV stands for iVact
S: S stands for Spring Return Actuator.
a: Size (A stands for 50Nm; B stands for 130Nm; C stands for 200Nm; D stands for 260Nm; E stands for 360Nm).
b: Manual Override (N stands for None; H stands for Handwheel).
c: Enclosure Type (W stands for Watertight to CSA and NEMA 4X;
E stands for Watertight & Explosion-proof to CSA and NEMA 4X, 7, 9).
d: Local Controls (N stands for None).
e: Voltage / Action on Main Power Loss
(A stands for 24V AC / Fail Clockwise on Main Power Loss;
B stands for 24V DC / Fail Clockwise on Main Power Loss;
C stands for 110V AC / Fail Clockwise on Main Power Loss;
D stands for 220V AC / Fail Clockwise on Main Power Loss;
E stands for 24V AC / Fail CounterClockwise on Main Power Loss;
F stands for 24V DC / Fail CounterClockwise on Main Power Loss;
G stands for 110V AC / Fail CounterClockwise on Main Power Loss;
H stands for 220V AC / Fail CounterClockwise on Main Power Loss).
f: Service / Duty
(A stands for TWO POSITION / 50% Duty;
B stands for ON/OFF / 50% Duty;
C stands for Modulating / 50% Duty).

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3. Models iVL-abcd-ef, where:
   iV: iV stands for iVact
   L: L stands for Linear Actuator.
   a: Size (A stands for 250N; B stands for 500N; C stands for 1000N; D stands for 2000N).
   b: Manual Override (N stands for None; H stands for Handwheel).
   c: Enclosure Type (W stands for Watertight to CSA and NEMA 4X).
   d: Local Controls (N stands for None).
   e: Voltage
   (A stands for 24V AC;
   B stands for 24V DC;
   C stands for 110V AC or 120V AC;
   D stands for 220V AC or 240V AC).
   f: Service / Duty
   (A stands for On/Off / 75% Duty (1200 starts per hour) / None;
   B stands for Modulating / 75% Duty (1200 starts per hour) / Hold in Last Position on Signal Loss;
   C stands for Modulating / 75% Duty (1200 starts per hour) / Fail Extend Downward on Signal Loss;
   D stands for Modulating / 75% Duty (1200 starts per hour) / Fail Retract Upward on Signal Loss.

LISTED MODELS:

- Quarter-turn electric valve actuators for indoor or outdoor use, enclosure type 4X and 5; rated 24V AC/DC, 110V AC or 220V AC, 60Hz, max. 1.4A; torque up to 15 Nm; 30% duty cycle for ON/OFF type. Ambient temperature range: -30C to + 65C.

Models:

iVQ-ALWN-AA	iVQ-ALWN-BA	iVQ-ALWN-CA	iVQ-ALWN-DA
iVQ-BLWN-AA	iVQ-BLWN-BA	iVQ-BLWN-CA	iVQ-BLWN-DA

- Quarter-turn electric valve actuators for indoor or outdoor use, enclosure use type 4X and 5; rated 24V AC/DC, 110V to 120V AC or 220V to 240V AC, 60 Hz, max. 15 A; torque up to 4500 Nm; 30%, 50% or 75% duty cycle for ON/OFF and Modulating type.

Models:

iVQ-CLWN-AE	iVQ-CLWN-AF	iVQ-CLWN-BE	iVQ-CLWN-BF	iVQ-CLWN-CA
iVQ-CLWN-CF	iVQ-CLWN-DA	iVQ-CLWN-DF	iVQ-DLWN-AD	iVQ-DLWN-BF
iVQ-DLWN-AE	iVQ-DLWN-AF	iVQ-DLWN-BD	iVQ-DLWN-BE	iVQ-DNWN-AD
iVQ-DLWN-CA	iVQ-DLWN-CF	iVQ-DLWN-DA	iVQ-DLWN-DF	iVQ-DNWN-BF
iVQ-DNWN-AE	iVQ-DNWN-AF	iVQ-DNWN-BD	iVQ-DNWN-BE	iVQ-FCWN-AE
iVQ-DNWN-CA	iVQ-DNWN-CF	iVQ-DNWN-DA	iVQ-DNWN-DF	iVQ-FCWN-CB
iVQ-FCWN-AF	iVQ-FCWN-BE	iVQ-FCWN-BF	iVQ-FCWN-CA	iVQ-FHWN-AE
iVQ-FCWN-CF	iVQ-FCWN-DA	iVQ-FCWN-DB	iVQ-FCWN-DF	iVQ-FHWN-CB
iVQ-FHWN-AF	iVQ-FHWN-BE	iVQ-FHWN-BF	iVQ-FHWN-CA	iVQ-HCWN-AE
iVQ-FHWN-CF	iVQ-FHWN-DA	iVQ-FHWN-DB	iVQ-FHWN-DF	iVQ-HCWN-CB
iVQ-HCWN-AF	iVQ-HCWN-BE	iVQ-HCWN-BF	iVQ-HCWN-CA	iVQ-HCWN-DE
iVQ-HCWN-CE	iVQ-HCWN-CF	iVQ-HCWN-DA	iVQ-HCWN-DB	iVQ-HHWN-BF
iVQ-HCWN-DF	iVQ-HHWN-AE	iVQ-HHWN-AF	iVQ-HHWN-BE	iVQ-HHWN-DA
iVQ-HHWN-CA	iVQ-HHWN-CB	iVQ-HHWN-DF	iVQ-HHWN-CF	iVQ-JCWN-AF

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iVQ-HHWN-DB	iVQ-JCWN-BF	iVQ-JCWN-CA	iVQ-JCWN-AE	iVQ-JCWN-CF
iVQ-JCWN-BE	iVQ-JCWN-DB	iVQ-JCWN-DF	iVQ-JCWN-CB	iVQ-JHWN-AF
iVQ-JCWN-DA	iVQ-JHWN-BF	iVQ-JHWN-CA	iVQ-JHWN-AE	iVQ-JHWN-CF
iVQ-JHWN-BE	iVQ-JHWN-DB	iVQ-JHWN-DF	iVQ-JHWN-CB	iVQ-KCWN-AF
iVQ-JHWN-DA	iVQ-KCWN-BF	iVQ-KCWN-CA	iVQ-KCWN-AE	iVQ-KCWN-CF
iVQ-KCWN-BE	iVQ-KCWN-DB	iVQ-KCWN-DF	iVQ-KCWN-CB	iVQ-KHWN-AF
iVQ-KCWN-DA	iVQ-KHWN-BF	iVQ-KHWN-CA	iVQ-KHWN-AE	iVQ-KHWN-CF
iVQ-KHWN-BE	iVQ-KHWN-DB	iVQ-KHWN-DF	iVQ-KHWN-CB	iVQ-LCWN-AF
iVQ-KHWN-DA	iVQ-LCWN-BF	iVQ-LCWN-CA	iVQ-LCWN-AE	iVQ-LCWN-CF
iVQ-LCWN-BE	iVQ-LCWN-DB	iVQ-LCWN-DF	iVQ-LCWN-CB	iVQ-LHWN-AF
iVQ-LCWN-DA	iVQ-LHWN-BF	iVQ-LHWN-CA	iVQ-LHWN-AE	iVQ-LHWN-CF
iVQ-LHWN-BE	iVQ-LHWN-DB	iVQ-LHWN-DF	iVQ-LHWN-CB	iVQ-MCWN-AF
iVQ-LHWN-DA	iVQ-MCWN-BF	iVQ-MCWN-CA	iVQ-MCWN-AE	iVQ-MCWN-CF
iVQ-MCWN-BE	iVQ-MCWN-DB	iVQ-MCWN-DF	iVQ-MCWN-CB	iVQ-MHWN-AF
iVQ-MCWN-DA	iVQ-MHWN-BF	iVQ-MHWN-CA	iVQ-MHWN-AE	iVQ-MHWN-CF
iVQ-MHWN-BE	iVQ-MHWN-DB	iVQ-MHWN-DF	iVQ-MHWN-CB	iVQ-NCWN-AF
iVQ-MHWN-DA	iVQ-NCWN-BF	iVQ-NCWN-CA	iVQ-NCWN-AE	iVQ-NCWN-CF
iVQ-NCWN-BE	iVQ-NCWN-DB	iVQ-NCWN-DF	iVQ-NCWN-CB	iVQ-NHWN-AF
iVQ-NCWN-DA	iVQ-NHWN-BF	iVQ-NHWN-CA	iVQ-NHWN-AE	iVQ-NHWN-CF
iVQ-NHWN-BE	iVQ-NHWN-DB	iVQ-NHWN-DF	iVQ-NHWN-CB	iVQ-OCWN-AD
iVQ-NHWN-DA	iVQ-OCWN-BD	iVQ-OCWN-CA	iVQ-OCWN-AC	iVQ-OCWN-DA
iVQ-OCWN-BC	iVQ-OHWN-AC	iVQ-OHWN-AD	iVQ-OCWN-CD	iVQ-OHWN-BD
iVQ-OCWN-DD	iVQ-OHWN-CD	iVQ-OHWN-DA	iVQ-OHWN-BC	iVQ-PCWN-AC
iVQ-OHWN-CA	iVQ-PCWN-BC	iVQ-PCWN-BD	iVQ-OHWN-DD	iVQ-PCWN-CD
iVQ-PCWN-AD	iVQ-PCWN-DD	iVQ-PHWN-AC	iVQ-PCWN-CA	iVQ-PHWN-BC
iVQ-PCWN-DA	iVQ-PHWN-CA	iVQ-PHWN-CD	iVQ-PHWN-AD	iVQ-PHWN-DD
iVQ-PHWN-BD	iVQ-QHWN-BD	iVQ-QCWN-BC	iVQ-PHWN-DA	iVQ-CLWL-CA
iVQ-QHWN-BC	iVQ-RHWL-DD	iVQ-RCWL-DD	iVQ-RCWN-DD	iVQ-DLWL-AD
iVQ-RHWN-DD	iVQ-CLWL-AF	iVQ-CLWL-BE	iVQ-CLWL-BF	iVQ-DLWL-BF
iVQ-CLWL-AE	iVQ-CLWL-CF	iVQ-CLWL-DA	iVQ-CLWL-DF	iVQ-DNWL-AD
iVQ-CLWL-CE	iVQ-DLWL-AF	iVQ-DLWL-BD	iVQ-DLWL-BE	iVQ-DNWL-BF
iVQ-DLWL-AE	iVQ-DLWL-CF	iVQ-DLWL-DA	iVQ-DLWL-DF	iVQ-FCWL-AE
iVQ-DLWL-CA	iVQ-DNWL-AF	iVQ-DNWL-BD	iVQ-DNWL-BE	iVQ-FCWL-CB
iVQ-DNWL-AE	iVQ-DNWL-CF	iVQ-DNWL-DA	iVQ-DNWL-DF	iVQ-FHWL-AE
iVQ-DNWL-CA	iVQ-FCWL-BE	iVQ-FCWL-BF	iVQ-FCWL-CA	iVQ-FHWL-CB
iVQ-FCWL-AF	iVQ-FCWL-DA	iVQ-FCWL-DB	iVQ-FCWL-DF	iVQ-HCWL-AE
iVQ-FCWL-CF	iVQ-FHWL-BE	iVQ-FHWL-BF	iVQ-FHWL-CA	iVQ-HCWL-CB
iVQ-FHWL-AF	iVQ-FHWL-DA	iVQ-FHWL-DB	iVQ-FHWL-DF	iVQ-HCWL-DE
iVQ-FHWL-CF	iVQ-HCWL-BE	iVQ-HCWL-BF	iVQ-HCWL-CA	iVQ-HHWL-BF
iVQ-HCWL-AF	iVQ-HCWL-CF	iVQ-HCWL-DA	iVQ-HCWL-DB	iVQ-HHWL-DA
iVQ-HCWL-CE	iVQ-HHWL-AE	iVQ-HHWL-AF	iVQ-HHWL-BE	iVQ-JCWL-AF
iVQ-HCWL-DF	iVQ-HHWL-CB	iVQ-HHWL-CE	iVQ-HHWL-CF	iVQ-JCWL-CF
iVQ-HHWL-CA	iVQ-HHWL-DE	iVQ-HHWL-DF	iVQ-JCWL-AE	iVQ-JHWL-AF
iVQ-HHWL-DB	iVQ-JCWL-BF	iVQ-JCWL-CA	iVQ-JCWL-CB	iVQ-JHWL-CF
iVQ-JCWL-BE	iVQ-JCWL-DB	iVQ-JCWL-DF	iVQ-JHWL-AE	iVQ-KCWL-AF
iVQ-JCWL-DA	iVQ-JHWL-BF	iVQ-JHWL-CA	iVQ-JHWL-CB	iVQ-KCWL-CF
iVQ-JHWL-BE	iVQ-JHWL-DB	iVQ-JHWL-DF	iVQ-KCWL-AE	iVQ-KHWL-AF

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iVQ-JHWL-DA	iVQ-KCWL-BF	iVQ-KCWL-CA	iVQ-KCWL-CB	iVQ-KHWL-CF
iVQ-KCWL-BE	iVQ-KCWL-DB	iVQ-KCWL-DF	iVQ-KHWL-AE	iVQ-LCWL-AF
iVQ-KCWL-DA	iVQ-KHWL-BF	iVQ-KHWL-CA	iVQ-KHWL-CB	iVQ-LCWL-CF
iVQ-KHWL-BE	iVQ-KHWL-DB	iVQ-KHWL-DF	iVQ-LCWL-AE	iVQ-LHWL-AF
iVQ-KHWL-DA	iVQ-LCWL-BF	iVQ-LCWL-CA	iVQ-LCWL-CB	iVQ-LHWL-CF
iVQ-LCWL-BE	iVQ-LCWL-DB	iVQ-LCWL-DF	iVQ-LHWL-AE	iVQ-MCWL-AF
iVQ-LCWL-DA	iVQ-LHWL-BF	iVQ-LHWL-CA	iVQ-LHWL-CB	iVQ-MCWL-CF
iVQ-LHWL-BE	iVQ-LHWL-DB	iVQ-LHWL-DF	iVQ-MCWL-AE	iVQ-MHWL-AF
iVQ-LHWL-DA	iVQ-MCWL-BF	iVQ-MCWL-CA	iVQ-MCWL-CB	iVQ-MHWL-CF
iVQ-MCWL-BE	iVQ-MCWL-DB	iVQ-MCWL-DF	iVQ-MHWL-AE	iVQ-NCWL-AF
iVQ-MCWL-DA	iVQ-MHWL-BF	iVQ-MHWL-CA	iVQ-MHWL-CB	iVQ-NCWL-CF
iVQ-MHWL-BE	iVQ-MHWL-DB	iVQ-MHWL-DF	iVQ-NCWL-AE	iVQ-NHWL-AF
iVQ-MHWL-DA	iVQ-NCWL-BF	iVQ-NCWL-CA	iVQ-NCWL-CB	iVQ-NHWL-CF
iVQ-NCWL-BE	iVQ-NCWL-DB	iVQ-NCWL-DF	iVQ-NHWL-AE	iVQ-OCWL-AD
iVQ-NCWL-DA	iVQ-NHWL-BF	iVQ-NHWL-CA	iVQ-NHWL-CB	iVQ-OCWL-DA
iVQ-NHWL-BE	iVQ-NHWL-DB	iVQ-NHWL-DF	iVQ-OCWL-AC	iVQ-OHWL-BD
iVQ-NHWL-DA	iVQ-OCWL-BD	iVQ-OCWL-CA	iVQ-OCWL-CD	iVQ-PCWL-AC
iVQ-OCWL-BC	iVQ-OHWL-AC	iVQ-OHWL-AD	iVQ-OHWL-BC	iVQ-PCWL-CD
iVQ-OCWL-DD	iVQ-OHWL-CD	iVQ-OHWL-DA	iVQ-OHWL-DD	iVQ-PHWL-BC
iVQ-OHWL-CA	iVQ-PCWL-BC	iVQ-PCWL-BD	iVQ-PCWL-CA	iVQ-PHWL-DD
iVQ-PCWL-AD	iVQ-PCWL-DD	iVQ-PHWL-AC	iVQ-PHWL-AD	iVQ-PCWL-DA
iVQ-PHWL-CA	iVQ-PHWL-CD	iVQ-PHWL-DA	iVQ-RHWN-BC	iVQ-RHWL-BC
iVQ-PHWL-BD	iVQ-QHWL-BD	iVQ-QCWL-BC	iVQ-QHWN-DA	iVQ-QHWL-DA
iVQ-QCWN-DA	iVQ-QCWL-DA	iVQ-QHWL-BC	iVQ-RHWN-BD	iVQ-RHWL-BD
iVQ-RCWN-BD	iVQ-RCWL-BD	iVQ-RHWN-DA	iVQ-RHWL-DA	iVQ-RCWN-DA
iVQ-RCWL-DA	iVQ-RHWN-CA	iVQ-RHWL-CA	iVQ-RCWN-CA	iVQ-RCWL-CA
iVQ-RHWN-CD	iVQ-RHWL-CD	iVQ-RCWN-CD	iVQ-RCWL-CD	iVQ-QHWN-CD
iVQ-QHWL-CD	iVQ-QCWN-CD	iVQ-QCWL-CD	iVQ-QHWN-AD	iVQ-QHWL-AD
iVQ-QCWN-AD	iVQ-QCWL-AD	iVQ-QCWN-BD	iVQ-QCWL-BD	iVQ-QHWN-DD
iVQ-QHWL-DD	iVQ-QCWN-DD	iVQ-QCWL-DD	iVQ-QHWN-AC	iVQ-QHWL-AC
iVQ-QCWN-AC	iVQ-QCWL-AC	iVQ-RHWN-AC	iVQ-RHWL-AC	iVQ-RCWN-AC
iVQ-RCWL-AC	iVQ-RHWN-AD	iVQ-RHWL-AD	iVQ-RCWN-AD	iVQ-RCWL-AD
iVQ-QHWN-CA	iVQ-QHWL-CA	iVQ-QCWN-CA	iVQ-QCWL-CA	iVQ-CLWN-CE
iVQ-HHWN-DE	iVQ-HHWN-CE	iVQ-RCWN-BC	iVQ-RCWL-BC	iVQ-CLWN-HE
iVQ-CLWN-IE	iVQ-SHWN-AC	iVQ-SHWN-BC	iVQ-SHWN-AD	iVQ-SHWN-BD
iVQ-SHWN-CA	iVQ-SHWN-CD	iVQ-SHWN-DA	iVQ-SHWN-DD	iVQ-SHWN-CC

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- Quarter-turn electric valve actuators for indoor or outdoor use, enclosure type 4X and 5; rated 24 V AC/DC, 110V to 120V AC or 220V to 240V AC, 60 Hz, max. 4.4 A, torque up to 120 Nm, 30% or 75% duty cycle for ON/OFF and Modulating type. Ambient temperature range: -30C to + 65C.

Models:

iVQ-ECWN-AA	iVQ-ECWN-AF	iVQ-ECWN-BA	iVQ-ECWN-BF	iVQ-ECWN-CA
iVQ-ECWN-CB	iVQ-ECWN-DA	iVQ-ECWN-DB	iVQ-EHWN-AA	iVQ-EHWN-AF
iVQ-EHWN-BA	iVQ-EHWN-BF	iVQ-EHWN-CA	iVQ-EHWN-CB	iVQ-EHWN-DA
iVQ-EHWN-DB	iVQ-GCWN-AA	iVQ-GCWN-AF	iVQ-GCWN-BA	iVQ-GCWN-BF
iVQ-GCWN-CA	iVQ-GCWN-CB	iVQ-GCWN-DA	iVQ-GCWN-DB	iVQ-GHWN-AA
iVQ-GHWN-AF	iVQ-GHWN-BA	iVQ-GHWN-BF	iVQ-GHWN-CA	iVQ-GHWN-CB
iVQ-GHWN-DA	iVQ-GHWN-DB	iVQ-ECWL-BA	iVQ-ECWL-BF	iVQ-ECWL-CA
iVQ-ECWL-AA	iVQ-ECWL-AF	iVQ-ECWL-DB	iVQ-EHWL-AA	iVQ-EHWL-AF
iVQ-ECWL-CB	iVQ-ECWL-DA	iVQ-EHWL-CA	iVQ-EHWL-CB	iVQ-EHWL-DA
iVQ-EHWL-BA	iVQ-EHWL-BF	iVQ-GCWL-AF	iVQ-GCWL-BA	iVQ-GCWL-BF
iVQ-EHWL-DB	iVQ-GCWL-AA	iVQ-GCWL-DA	iVQ-GCWL-DB	iVQ-GHWL-AA
iVQ-GCWL-CA	iVQ-GCWL-CB	iVQ-GHWL-BF	iVQ-GHWL-CA	iVQ-GHWL-CB
iVQ-GHWL-AF	iVQ-GHWL-BA	iVQ-GHWL-DA	iVQ-GHWL-DB	

- Quarter-turn electric valve actuators for indoor or outdoor use, enclosure use type 4X and 5, rated 12 Vdc or ac, 24 Vdc or ac, 110-120 Vac or 220-240 Vac, 60 Hz, max. 15 A; torque up to 4500 Nm; duty cycle 30%, 50% or 75% for open-close and modulating type.

Models:

iVQ-ICWN-AE	iVQ-ICWN-AF	iVQ-ICWN-BE	iVQ-ICWN-BF	iVQ-ICWN-CA
iVQ-ICWN-CB	iVQ-ICWN-CE	iVQ-ICWN-CF	iVQ-ICWN-DA	iVQ-ICWN-DB
iVQ-ICWN-DE	iVQ-ICWN-DF	iVQ-IHWN-AE	iVQ-IHWL-AE	iVQ-IHWN-BE
iVQ-IHWL-BE	iVQ-IHWN-AF	iVQ-IHWL-AF	iVQ-IHWN-CA	iVQ-IHWL-CA
iVQ-IHWN-CB	iVQ-IHWL-CB	iVQ-IHWN-CE	iVQ-IHWL-CE	iVQ-IHWN-BF
iVQ-IHWL-BF	iVQ-IHWN-CF	iVQ-IHWL-CF	iVQ-IHWN-DA	iVQ-IHWL-DA
iVQ-IHWN-DE	iVQ-IHWL-DE	iVQ-IHWN-DB	iVQ-IHWL-DB	iVQ-IHWN-DF
iVQ-IHWL-DF	iVQ-ICWL-AE	iVQ-ICWL-BE	iVQ-ICWL-AF	iVQ-ICWL-CA
iVQ-ICWL-CB	iVQ-ICWL-CE	iVQ-ICWL-BF	iVQ-ICWL-CF	iVQ-ICWL-DA
iVQ-ICWL-DE	iVQ-ICWL-DB	iVQ-ICWL-DF	iVQ-IHWN-EA	iVQ-IHWN-FA
iVQ-IHWN-GA	iVQ-IHWN-IE			

- Electrically operated, general purpose valve actuators for indoor or outdoor use, enclosure use type 4X and 5, rated 220~240V or 380~415V or 440~480V, 50/60 Hz, max. 1.2/0.9 A or 0.6/0.5A or 0.5/0.4; torque up to 65 or 120 Nm; duty cycle 30% for Floating type and for 3 phase type.

iVQ-EHWN-EA	iVQ-GHWN-EA	iVQ-EHWN-FA	iVQ-GHWN-FA	iVQ-EHWN-GA
iVQ-GHWN-GA				

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- Electrically operated, general purpose valve actuators, Class F or H insulation for Indoor or outdoor use. Enclosure Type 4X and Type 5, and for 3 phase type.
  rated 220-240Vor 380-415V or 440-480V, 60 Hz, max. 0.4A, 0.5A, 0.6A, 0.7A, 0.8A, 0.9A, 1.0A, 1.3A, 1.4A, 1.5 A; torque up to 4500 Nm; 30% duty cycle for Modulating Duty type.

iVQ-FHWN-EA	iVQ-HHWN-EA	iVQ-JHWN-EA	iVQ-KHWN-EA	iVQ-LHWN-EA
iVQ-MHWN-EA	iVQ-NHWN-EA	iVQ-OHWN-EA	iVQ-PHWN-EA	iVQ-QHWN-EA
iVQ-RHWN-EA	iVQ-SHWN-EA	iVQ-FHWN-EB	iVQ-HHWN-EB	iVQ-JHWN-EB
iVQ-KHWN-EB	iVQ-LHWN-EB	iVQ-MHWN-EB	iVQ-NHWN-EB	iVQ-OHWN-EB
iVQ-PHWN-EB	iVQ-QHWN-EB	iVQ-RHWN-EB	iVQ-SHWN-EB	iVQ-FHWN-FA
iVQ-HHWN-FA	iVQ-JHWN-FA	iVQ-KHWN-FA	iVQ-LHWN-FA	iVQ-MHWN-FA
iVQ-NHWN-FA	iVQ-OHWN-FA	iVQ-PHWN-FA	iVQ-QHWN-FA	iVQ-RHWN-FA
iVQ-SHWN-FA	iVQ-FHWN-FB	iVQ-HHWN-FB	iVQ-JHWN-FB	iVQ-KHWN-FB
iVQ-LHWN-FB	iVQ-MHWN-FB	iVQ-NHWN-FB	iVQ-OHWN-FB	iVQ-PHWN-FB
iVQ-QHWN-FB	iVQ-RHWN-FB	iVQ-SHWN-FB	iVQ-FHWN-GA	iVQ-HHWN-GA
iVQ-JHWN-GA	iVQ-KHWN-GA	iVQ-LHWN-GA	iVQ-MHWN-GA	iVQ-NHWN-GA
iVQ-OHWN-GA	iVQ-PHWN-GA	iVQ-QHWN-GA	iVQ-RHWN-GA	iVQ-SHWN-GA
iVQ-FHWN-GB	iVQ-HHWN-GB	iVQ-JHWN-GB	iVQ-KHWN-GB	iVQ-LHWN-GB
iVQ-MHWN-GB	iVQ-NHWN-GB	iVQ-OHWN-GB	iVQ-PHWN-GB	iVQ-QHWN-GB
iVQ-RHWN-GB	iVQ-SHWN-GB			

- Electrically operated, general purpose valve actuators, Class B, F or H insulation.
  rated 110-120 V, 60/50 Hz, max. 0.6/0.6A or 0.7/0.7A or 1.9/2.2 A or 2.3/2.4A or 2.0/2.1A or 2.4/2.3A or 1.9/1.9A or 2.1/2.2A or 1.7/1.7A or 2.4/2.4A or 2.2/2.2A or 3.6/4.0A or 3.1/3.4A or 3.4/3.7A or 4.0/4.5A or 3.3/3.4A; or
  rated or 220-240V, 60/50 Hz, max. 0.3/0.4A or 0.4/0.4A or 0.8/0.8A or 1.0/1.0A or 1.0/1.1A or 1.1/1.1A or 1.1/1.2A or 1.2/1.2A or 1.3/1.4A or 1.4/1.5A or 2.0/2.1A or 2.4/2.6A or 2.1/2.2A;
  torque up to 50, 35, 90, 150, 400, 500, 650, 1000, 1500, 2000, 2500, 3000, 3500, 4500 Nm ; 50% ,75% duty cycle for Floating Duty type.

iVQ-DNWN-CE	iVQ-DNWL-CE	iVQ-DLWN-CE	iVQ-DLWL-CE	iVQ-CLWN-CE
iVQ-CLWL-CE	iVQ-FHWN-CE	iVQ-FHWL-CE	iVQ-HHWN-CE	iVQ-HHWL-CE
iVQ-JHWN-CC	iVQ-JHWN-CE	iVQ-JHWL-CC	iVQ-JHWL-CE	iVQ-KHWN-CC
iVQ-KHWN-CE	iVQ-KHWL-CC	iVQ-KHWL-CE	iVQ-LHWN-CC	iVQ-LHWN-CE
iVQ-LHWL-CC	iVQ-LHWL-CE	iVQ-MHWN-CC	iVQ-MHWN-CE	iVQ-MHWL-CC
iVQ-MHWL-CE	iVQ-NHWN-CC	iVQ-NHWN-CE	iVQ-NHWL-CC	iVQ-NHWL-CE
iVQ-OHWN-CC	iVQ-OHWL-CC	iVQ-PHWN-CC	iVQ-PHWL-CC	iVQ-QHWN-CC
iVQ-QHWL-CC	iVQ-RHWN-CC	iVQ-RHWL-CC	iVQ-SHWN-DC	iVQ-SHWL-DC
iVQ-SHWN-CC	iVQ-SHWL-CC	iVQ-DNWN-DE	iVQ-DNWL-DE	iVQ-DLWN-DE
iVQ-DLWL-DE	iVQ-CLWN-DE	iVQ-CLWL-DE	iVQ-FHWN-DE	iVQ-FHWL-DE
iVQ-HHWN-DE	iVQ-HHWL-DE	iVQ-JHWN-DC	iVQ-JHWN-DE	iVQ-JHWL-DC
iVQ-JHWL-DE	iVQ-KHWN-DC	iVQ-KHWN-DE	iVQ-KHWL-DC	iVQ-KHWL-DE
iVQ-LHWN-DC	iVQ-LHWN-DE	iVQ-LHWL-DC	iVQ-LHWL-DE	iVQ-MHWN-DC
iVQ-MHWN-DE	iVQ-MHWL-DC	iVQ-MHWL-DE	iVQ-NHWN-DC	iVQ-NHWN-DE
iVQ-NHWL-DC	iVQ-NHWL-DE	iVQ-OHWN-DC	iVQ-OHWL-DC	iVQ-PHWN-DC
iVQ-PHWL-DC	iVQ-QHWN-DC	iVQ-QHWL-DC	iVQ-RHWN-DC	iVQ-RHWL-DC

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Certificate: 70193270 **Master Contract:** 273325

Project: 80219172 **Date Issued:** 2025-01-17

- Fail-safe spring return electric valve actuators for indoor or outdoor use, enclosure type 4X and 5; rated 24V AC/DC, 110V to 120V AC or 220V to 240V AC, 60 Hz, max. 11.3A; torque up to 260 Nm; 50% duty cycle for Two Position, ON/OFF and Modulating type.

Models:

iVS-AHWN-AA	iVS-AHWN-BA	iVS-AHWN-CA	iVS-AHWN-CB	iVS-AHWN-CC
iVS-AHWN-DA	iVS-AHWN-DB	iVS-AHWN-DC	iVS-AHWN-EA	iVS-AHWN-FA
iVS-AHWN-GA	iVS-AHWN-GB	iVS-AHWN-GC	iVS-AHWN-HA	iVS-AHWN-HB
iVS-AHWN-HC	iVS-ANWN-AA	iVS-ANWN-BA	iVS-ANWN-CA	iVS-ANWN-CB
iVS-ANWN-CC	iVS-ANWN-DA	iVS-ANWN-DB	iVS-ANWN-DC	iVS-ANWN-EA
iVS-ANWN-FA	iVS-ANWN-GA	iVS-ANWN-GB	iVS-ANWN-GC	iVS-ANWN-HA
iVS-ANWN-HB	iVS-ANWN-HC	iVS-BHWN-AA	iVS-BHWN-BA	iVS-BHWN-CA
iVS-BHWN-CB	iVS-BHWN-CC	iVS-BHWN-DA	iVS-BHWN-DB	iVS-BHWN-DC
iVS-BHWN-EA	iVS-BHWN-FA	iVS-BHWN-GA	iVS-BHWN-GB	iVS-BHWN-GC
iVS-BHWN-HA	iVS-BHWN-HB	iVS-BHWN-HC	iVS-BNWN-AA	iVS-BNWN-BA
iVS-BNWN-CA	iVS-BNWN-CB	iVS-BNWN-CC	iVS-BNWN-DA	iVS-BNWN-DB
iVS-BNWN-DC	iVS-BNWN-EA	iVS-BNWN-FA	iVS-BNWN-GA	iVS-BNWN-GB
iVS-BNWN-GC	iVS-BNWN-HA	iVS-BNWN-HB	iVS-BNWN-HC	iVS-CHWN-AA
iVS-CHWN-BA	iVS-CHWN-CA	iVS-CHWN-CB	iVS-CHWN-CC	iVS-CHWN-DA
iVS-CHWN-DB	iVS-CHWN-DC	iVS-CHWN-EA	iVS-CHWN-FA	iVS-CHWN-GA
iVS-CHWN-GB	iVS-CHWN-GC	iVS-CHWN-HA	iVS-CHWN-HB	iVS-CHWN-HC
iVS-CNWN-AA	iVS-CNWN-BA	iVS-CNWN-CA	iVS-CNWN-CB	iVS-CNWN-CC
iVS-CNWN-DA	iVS-CNWN-DB	iVS-CNWN-DC	iVS-CNWN-EA	iVS-CNWN-FA
iVS-CNWN-GA	iVS-CNWN-GB	iVS-CNWN-GC	iVS-CNWN-HA	iVS-CNWN-HB
iVS-CNWN-HC	iVS-DHWN-AA	iVS-DHWN-BA	iVS-DHWN-CA	iVS-DHWN-CB
iVS-DHWN-CC	iVS-DHWN-DA	iVS-DHWN-DB	iVS-DHWN-DC	iVS-DHWN-EA
iVS-DHWN-FA	iVS-DHWN-GA	iVS-DHWN-GB	iVS-DHWN-GC	iVS-DHWN-HA
iVS-DHWN-HB	iVS-DHWN-HC	iVS-DNWN-AA	iVS-DNWN-BA	iVS-DNWN-CA
iVS-DNWN-CB	iVS-DNWN-CC	iVS-DNWN-DA	iVS-DNWN-DB	iVS-DNWN-DC
iVS-DNWN-EA	iVS-DNWN-FA	iVS-DNWN-GA	iVS-DNWN-GB	iVS-DNWN-GC
iVS-DNWN-HA	iVS-DNWN-HB	iVS-DNWN-HC	iVS-ENWN-CA	iVS-ENWN-GA
iVS-EHWN-CA	iVS-EHWN-GA	iVS-ENWN-DA	iVS-ENWN-HA	iVS-EHWN-DA
iVS-EHWN-HA	iVS-ENWN-AA	iVS-ENWN-BA	iVS-ENWN-EA	iVS-ENWN-FA
iVS-EHWN-AA	iVS-EHWN-BA	iVS-EHWN-EA	iVS-EHWN-FA	

Notes:
1. Ambient Temperature:
-40°C to 65°C / -30°C to 65°C for on-off (2 Position) and Floating.
(Duty cycle 50% for -40°C / -30°C ~ +40°C and 30% for +41°C ~ +65°C)
-20°C to 65°C for Modulating.
(Duty cycle 50% for -20°C ~ +40°C and 30% for +41°C ~ +65°C)

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Certificate: 70193270 **Master Contract:** 273325

Project: 80219172 **Date Issued:** 2025-01-17

- Linear electric valve actuators for indoor or outdoor use, enclosure type 4X and 5; rated 24V AC/DC, 110V AC or 220V AC, 60Hz, max. 1.0 A, thrust up to 2000 kgf; 75% duty cycle for ON/OFF and Modulating type. Ambient temperature range: -30C to + 65C.

Models:

iVL-AHWN-CA	iVL-AHWN-CB	iVL-AHWN-CC	iVL-AHWN-CD	iVL-AHWN-DA
iVL-AHWN-DB	iVL-AHWN-DC	iVL-AHWN-DD	iVL-BHWN-CA	iVL-BHWN-CB
iVL-BHWN-CC	iVL-BHWN-CD	iVL-BHWN-DA	iVL-BHWN-DB	iVL-BHWN-DC
iVL-BHWN-DD	iVL-CHWN-CA	iVL-CHWN-CB	iVL-CHWN-CC	iVL-CHWN-CD
iVL-CHWN-DA	iVL-CHWN-DB	iVL-CHWN-DC	iVL-CHWN-DD	iVL-DHWN-CA
iVL-DHWN-CB	iVL-DHWN-CC	iVL-DHWN-CD	iVL-DHWN-DA	iVL-DHWN-DB
iVL-DHWN-DC	iVL-DHWN-DD			
iVL-AHWN-BA	iVL-BHWN-BA	iVL-CHWN-BA	iVL-DHWN-BA	iVL-AHWN-AA
iVL-BHWN-AA	iVL-CHWN-AA	iVL-DHWN-AA	iVL-AHWN-BB	iVL-AHWN-BC
iVL-AHWN-BD	iVL-BHWN-BB	iVL-BHWN-BC	iVL-BHWN-BD	iVL-CHWN-BB
iVL-CHWN-BC	iVL-CHWN-BD	iVL-DHWN-BB	iVL-DHWN-BC	iVL-DHWN-BD
iVL-AHWN-AB	iVL-AHWN-AC	iVL-AHWN-AD	iVL-BHWN-AB	iVL-BHWN-AC
iVL-BHWN-AD	iVL-CHWN-AB	iVL-CHWN-AC	iVL-CHWN-AD	iVL-DHWN-AB
iVL-DHWN-AC	iVL-DHWN-AD			

MARKINGS

Each unit shall bear all the required markings identified in the applicable certification report(s).

APPLICABLE REQUIREMENTS

CSA C22.2 No. 139-1982 - Electrically Operated Valves
CSA C22.2 No. 139-10 - Electrically Operated Valves
CSA C22.2 No. 139-13 Upd.1 - Electrically Operated Valves
UL 429, 5th Edition - Electrically Operated Valves
UL 429, 7th Edition - Electrically Operated Valves

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