



Certificate of Compliance

Certificate: 80117451

Master Contract: 267592

Project: 80117451

Date Issued: 2022-05-07

Issued To: Valworx, Inc.
18636 Northline Drive
Cornelius, North Carolina 28031
United States

Attention: Kurt Naas

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.

Morton Ma
Issued by: Morton Ma



PRODUCTS

CLASS - C322802 - VALVES Actuators - For Hazardous Locations

CLASS - C322882 - VALVES Actuators - For Hazardous Locations-Certified to U.S. Standards

Class I, Division 1, Groups C and D T5

Ex db IIC T5 Gb

Class I, Zone 1, AEx db IIC T5 Gb

APPLICABLE REQUIREMENTS

IOM 5818 series and IOM 5818 EPS series explosion-proof actuator with Temp. Code is T5, $-25^{\circ}\text{C} \leq \text{Tamb} \leq +55^{\circ}\text{C}$ ($-13^{\circ}\text{F} \leq \text{Tamb} \leq +131^{\circ}\text{F}$), Motorized, Part-turn 90 Deg, General purpose, 6000 cycles, enclosure TYPE 4X for indoor and outdoor.



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The rating as below:

Series	Models	Vol. [V]	Fre. [Hz]	Rat. Torque [N-m]	Duty cycle
IOM 5818 Series	581850	120VAC	50/60	50	70%
	581851	24VDC	--	50	70%
	581862	120VAC	50/60	100	70%
	581865	24VDC	--	100	70%
	581870	120VAC	50/60	200	70%
	581871	24VDC	--	200	70%
IOM 5818 EPS Series	581856	120VAC	50/60	50	70%
	581857	24VDC	--	50	70%
	581876	120VAC	50/60	200	70%
	581877	24VDC	--	200	70%

CONDITIONS OF ACCEPTABILITY:

1. The cable entry point or branching point is higher than 60°C, the end user shall follow user manual and select the properly cable, cable gland or conductors in conduit.
2. The minimum yield strength and minimum tensile strength of special fastener are 450MPa and 700MPa.
3. The maximum load allowed is 50Nm(Model 581850, 581851, 581856 and 581857), 100Nm(Model 581862 and 581865) or 200Nm(Model 581870, 581871, 581876 and 581877).
4. The lens fixed plate cannot be loosed or removed any time.
5. When the products are intended to be installed in the hazardous locations classified according to division rules , the TSE3854DS-W potted compound cannot be used to an atmosphere containing Acetic Acid (Glacial) saturated vapors, and the WCC-87 potted compound cannot be used to an atmosphere containing saturated vapors as below: Acetic Acid (Glacial), Acetone, Ammonium Hydroxide (20% by weight), ASTM reference fuel C, Diethyl Ether, Ethyl Acetate, Ethylene Dichloride, Furfural, n-Hexane, Methyl Ethyl Ketone, Methanol, 2-Nitropropane and Toluene.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 30-M1986 (Reaffirmed 2016)	Explosion-proof enclosures for use in class I hazardous locations
CAN/CSA C22.2 No. 145-11 (Reaffirmed 2015)	Electric Motors and Generators for Use in Hazardous (Classified) Locations
CSA C22.2 No. 139-13	Electrically Operated Valves
CSA C22.2 No.60079-0-2019	Explosive atmospheres – Part 0: Equipment – General requirements
CSA C22.2 No.60079-1-2016	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
UL 674 Fifth Edition	Electric Motors and Generators for Use in Hazardous (Classified) Locations



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UL 1203-2013	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
UL 60079-0:2020	Explosive atmospheres – Part 0: Equipment – General requirements
UL 60079-1:2020	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
UL 429 (Seventh Edition)	Electrically Operated Valves

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.

- Manufacturer's name: " Valworx, Inc.", or CSA Master Contract Number "267592", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Hazardous Locations Designation: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serials number, traceable to year and month of manufacture.
- The CSA Mark, with or without the "C" and "US" indicators, as shown on the Certificate of Conformity.
- Temperature code rating: T5
- Ambient temperature range: -25°C - +55°C (-13°F - +131°F)
- Complete electrical rating: As specified in the PRODUCTS section, above.
- Enclosure Type: TYPE 4X
- Rated load: 50Nm/100Nm/200Nm
- Warning:
 - WARNING - TO PREVENT IGNITION OF FLAMMABLE GASES, VAPORS OR DUST, DO NOT REMOVE COVER WHILE CIRCUITS ARE LIVE
 - AVERTISSEMENT - POUR ÉVITER L'INFLAMMATION DES GAZ INFLAMMABLES, DE VAPEURS OU DE POUSSIÈRE, NE PAS RETIRER LE COUVERCLE PENDANT QUE LE CIRCUIT EST SOUS TENSION
 - WARNING - A SEAL SHALL BE INSTALLED WITHIN 500 MM OF THE ENCLOSURE
 - AVERTISSEMENT - UN SCELLEMENT DOIT ÊTRE INSTALLÉ À MOINS DE 500 MM DU BOÎTIER

Notes:



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Products certified under Class C322802, C322882 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

