



Certificate of Compliance

Certificate: 80118462

Master Contract: 603889

Project: 80118462

Date Issued: 2022-04-25

Issued To: J Flow Controls
4665 Interstate Drive
Cincinnati, Ohio 45246
United States

Attention: Steve Hacker

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/T6

Ex db IIC T5/T6 Gb

Class I, Zone 1, AEx db IIC T5/T6 Gb

APPLICABLE REQUIREMENTS

JFEE series explosion-proof actuator with Temp. Code is T5/T6, -13°F - +131°F/+122°F (-25°C ≤ Tamb ≤ 55°C/50°C), 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
JFEE Series	JFEE-005-20V1-B	110 VAC	50/60	50	70%
	JFEE-005-20V7-B	24 VAC	50/60		70%
	JFEE-005-20V6-B	220 VAC	50/60		70%
	JFEE-005-20V1-EMT	110 VAC	50/60		70%
	JFEE-005-20V6-EMT	220 VAC	50/60		70%
	JFEE-005-20V2-G	24 VDC	--		70%
	JFEE-005-20V2-GMT	24 VDC	--		70%
	JFEE-010-30V1-B	110 VAC	50/60		100
	JFEE-010-30V7-B	24 VAC	50/60	70%	
	JFEE-010-30V6-B	220 VAC	50/60	70%	
	JFEE-010-30V1-EMT	110 VAC	50/60	70%	
	JFEE-010-30V6-EMT	220 VAC	50/60	70%	
	JFEE-010-30V2-G	24 VDC	--	70%	
	JFEE-010-30V2-GMT	24 VDC	--	70%	
	JFEE-020-30V1-B	110 VAC	50/60	200	
	JFEE-020-30V6-B	220 VAC	50/60		70%
	JFEE-020-30V1-EMT	110 VAC	50/60		70%
	JFEE-020-30V6-EMT	220 VAC	50/60		70%
	JFEE-020-30V2-G	24 VDC	--		70%
	JFEE-020-30V2-GMT	24 VDC	--		70%
	JFEE-040-30V1-B	110 VAC	50/60	400	70%
	JFEE-040-30V6-B	220 VAC	50/60		70%
	JFEE-040-30V1-EMT	110 VAC	50/60		70%
	JFEE-040-30V6-EMT	220 VAC	50/60		70%
JFEE-040-30V2-G	24 VDC	--	70%		
JFEE-040-30V2-GMT	24 VDC	--	70%		
JFEE-060-45V1-B	110 VAC	50/60	600	70%	
JFEE-060-45V6-B	220 VAC	50/60		70%	
JFEE-060-45V1-EMT	110 VAC	50/60		70%	
JFEE-060-45V6-EMT	220 VAC	50/60		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(JFEE-005 series), 100Nm(JFEE-010 series), 200Nm(JFEE-020 series), 400Nm(JFEE-040 series) or 600Nm(JFEE-060 series).
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.
6. Temperature code depends on ambient temperature as follows:

Type	T-code	Ambient Temperature
JFEE series explosion-proof actuator	T5	-13°F - +131°F (-25°C - +55°C)
	T6	-13°F - +122°F (-25°C - +50°C)

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
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.



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- Manufacturer's name: " J Flow Controls", or CSA Master Contract Number "603889", 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/T6
- Ambient temperature range: -13°F - +131°F/122°F (-25°C - +55°C/50°C)
- Complete electrical rating: As specified in the PRODUCTS section, above.
- Enclosure Type: TYPE 4X
- Rated load: 50Nm/100Nm/200Nm/400Nm/600Nm
- 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:

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

