



# Certificate of Compliance

**Certificate:** 1464096

**Master Contract:** 150957

**Project:** 80048333

**Date Issued:** 2021-04-29

**Issued To:** Emerson Process Management Valve Automation, Inc  
19200 NW Freeway  
Houston, Texas, 77065  
United States

**Attention:** Josh Johnson

*The products listed below are eligible to bear the CSA Mark shown*



**Issued by:** *Andy Jiang*  
Andy Jiang

## **PRODUCTS**

CLASS - C322802 - VALVES Actuators - For Hazardous Locations

**Class I, Groups B, C, and D; Class II, Groups E, F and G; Class III; T4 or T4A; Type 6P:**

**Electric Valve Actuators: TEC2000, Rated 115/208/220/230 V ac, 50/60 Hz, single phase; 208/230/380/415/460/575 V ac, 50/60 Hz, 3 phase; or 12/24/48/125/250 V dc; with motor rated 1/60 to 3.2hp.**

**Class I, Groups C, and D; Class II, Groups E, F and G; Class III; T4:**

**Electric Valve Actuators: TEC2000, Rated 115/208/220/230 V ac, 50/60 Hz, single phase; 208/230/380/415/460/575 V ac, 50/60 Hz, 3 phase; or 12/24/48/125/250 V dc; with motor rated 1/60 to 8hp.**

**Class I, Group C & D; T3C:**

**Electric Valve Actuators: TEC2000, Rated 575V ac (max), 60 Hz, 3 phase, with a motor torque rating of 100 or 150 or 200 ft – lbs.**

**Class I, Group D; T3C:**



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**Electric Valve Actuators:** **TEC2000**, Rated 115/208/220/230 V ac, 50/60 Hz, single phase; 208/230/380/415/460/575 V ac, 50/60 Hz, 3 phase; or 12/24/48/125/250 V dc; above 4hp and up to 8hp or rated 460Vac, 60 Hz, 3 phase, with a motor torque rating of 100 or 150 or 200 ft – lbs.

**Class I, Groups B, C, and D; Class II, Groups E, F and G; Class III; T6; Type 6P/4X:**

**Remote Display Module:** Model **RDM**, standalone, for use with the EIM series TEC2000 valve actuators; rated 115/230 V ac, 24 V dc, 0.3A.

**Class I, Groups C, and D; Class II, Groups E, F and G; Class III; T6; Type 6P/4X:**

**Circuit Breaker Module:** Model **CBM**, standalone, for use with the EIM series TEC2000 valve actuators; rated 460 V ac, 0.5A to 67A.

**Notes:**

**Electric Valve Actuators:**

**TEC2000, 1/60 to 3.2hp (for Gps. B, C and D)**

- 1) Type 6P rating tested for 15.24 m (50 ft) for 7 days.
- 2) Temperature code T4 when valve actuator motors are protected with a 130C rated thermal cutout.
- 3) Temperature code T4A when valve actuator motors are protected with a 115C rated thermal cutout.
- 4) The motor thermal cutouts are CSA Certified Texas Instruments “Klixon” type 7AM and are factory wired for use with a control circuit located in the TEC2000 assembly and remote from the motor assembly where they are located positioned on the stator winding. All motor assemblies are provided with these thermal cutouts.
- 5) Maximum ambient temperature rating: 60C.
- 6) As an option and for marketing reasons, the Group B designation may be omitted from the product label.
- 7) As an option this actuator can include the use of PBM (Push Button Module) enclosure.

**TEC2000 1/60 to 8hp (for Gps. C and D)**

- 1) Temperature code T4 when valve actuator motors are protected with a 130C rated thermal cutout.
- 2) The motor thermal cutouts are CSA Certified Texas Instruments “Klixon” type 7AM and are factory wired for use with a control circuit located in the TEC2000 assembly and remote from the motor assembly where they are located positioned on the stator winding. All motor assemblies are provided with these thermal cutouts.
- 3) The valve actuator motors are Baldor CSA certified ones for use in hazardous locations Class I, Groups C and D, T4.
- 4) Maximum ambient temperature rating: 60C.
- 5) As an option this actuator can include the use of PBM faceplate cover in place of window cover.

**TEC2000, above 4hp and up to 8hp (for Gp. D)**

**TEC2000, Torque rating of 100 or 150 or 200 Ft – lbs. (For Gp. C and/or D )**



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- 1) Temperature code T3C only when the valve actuator motors are protected with a 150C or lower rated thermal cutout.
- 2) The motor thermal cutouts are certified types and are factory wired for use with a control circuit located in the TEC2000 assembly and remote from the motor assembly where they are located positioned on the stator winding.
- 3) The valve actuator motors are Baldor CSA certified ones for use in hazardous locations Class I, Group D, T3C.
- 4) Maximum ambient temperature rating: 40C.
- 5) These enclosures are not type rated.
- 6) As an option this actuator can include the use of PBM faceplate cover in place of window cover.

**Remote Display Module:**

**Model RDM**

- 1) Type 6P rating tested for 15.24 m (50 ft) for 7 days.
- 2) Maximum ambient temperature rating: 60C.

**Circuit Breaker Module:**

**Model CBM**

- 1) Type 6P rating tested for 15.24 m (50 ft) for 7 days.
- 2) Maximum ambient temperature rating: 60C.

**APPLICABLE REQUIREMENTS**

CSA Std C22.2 No. 0-10	-	General Requirements – Canadian Electrical Code, Part II
CSA Std C22.2 No. 14-95	-	Industrial Control Equipment
CSA Std C22.2 No. 25-1966	-	Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
CSA Std C22.2 No. 30-M1986	-	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA Std C22.2 No. 94-M91	-	Special Purpose Enclosures
CSA Std C22.2 No. 139-1982	-	Electrically Operated Valves
*CSA Std C22.2 No. 139-19	-	Electrically Operated Valves

\* - For actuators using 575V ac (max), 100 or 150 or 200 ft - lbs rated motor only.

**MARKINGS**

Refer to Descriptive Report and Test Results #1464096 for complete details on Markings.



## 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

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Project	Date	Description
80048333	2021-04-29	FIR follow-up. Update of report 1464096 for non-conformance issues noted in FC# 268932, FIR's dated 11-11-2020, 3-4-2020, 6-20-2019, 3-9-2017, alternate construction. Update standard CSA No.139-13 to CSA No.139-19 only for actuators using 575V ac (max), 100 or 150 or 200 ft - lbs rated motor.
70160243	2018-05-11	Update Report 1464096 to cover use of alternate motors (575Vac (max) /100, 150 and 200 ft-lbs.)
70094591	2016-08-26	Update to report 1464096 to cover updating COC to show current submittor Name/Address
70010183	2014-11-14	Update to report 1464096 to add push button faceplate (PBM) cover option and PBM module option to the TEC-2000 actuator.
2703704	2014-06-17	Update to report 2269379 with minor variations of the series 2000. (including new limit switch and new hydraulic manifold assembly). Based on flamepaths being identical to previous models, limited investigation and no testing.
2302192	2010-06-11	Update of report 1464096 to include revised drawings to cover minor alternate construction (including using higher rated hp motor for CL. I, Gps C and D) and delisting of Model ECP2000
2269379	2010-01-29	Reissue report 1464096 with new company name and address.
1464096	2005-06-28	Initial CSA Certification of Valve Actuators: Series TEC2000 & Series ECP2000; Accessory Modules CBM & RDM; for use in Hazardous Locations.