



# Certificate of Compliance

**Certificate:** 70145598 **Master Contract:** 179619 (082894\_0\_000)

**Project:** 70194150 **Date Issued:** 2018-12-19

**Issued to:** **Kimray Incorporated**  
52 North West 42  
Oklahoma City, Oklahoma 73118  
USA

**Attention:** **Ky Longley**

*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.*



**Issued by:** *James Cotton*  
James Cotton

## **PRODUCTS**

CLASS - C322802 - VALVES - For Hazardous Locations

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

**Class I, Division 1, Groups B, C, D; Class II, Division 1, Groups E, F, G; Class III; T6**

Electric Low Pressure Valve Assembly; Model Series: 130 xEy ELO zzz aa (where characters x, y, zzz and aa may be replaced by alphanumeric characters irrespective of certification status); Electrical Rating: 10 to 28 Vdc, 0.6 A max, Class 2/ELV; Continuous Operation; Output Contact Rating: 0.5 A, 30 Vdc; Enclosure Rating: Type 4; Ambient Temperature: -40°C to +60°C; Working Pressure: 35 kPa (5 PSI) to 310 kPa (45 PSI); Process Temperature: -40°C to +60°C; Process Gas: Air or Natural Gas; Dual Seal

## **Notes:**

1. The ELO series is considered an extra-low-voltage (Class 2/ELV), general-purpose (non-safety), continuous operation, modulating valve assembly, intended for use with gaseous hazardous or flammable fluid.
2. The ELO series may be used in combination with up to two of the following optional accessory modules: KA7505 (Discrete Control Board), KA7506 (Analog Control Board), KA7508 (RTD Control Board), and KA7507 (RS485/MODBUS Board).



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### **APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 0-10 (reaffirmed 2015)	General Requirements – Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 25-1966 (reaffirmed 2014)	Enclosures for use in Class II Groups E, F, and G Hazardous Locations
CAN/CSA C22.2 No. 30-M1986 (reaffirmed 2012)	Explosion-Proof Enclosures for use in Class I Hazardous Locations
CAN/CSA C22.2 No. 94.1-15	Enclosures for Electrical Equipment, Non-Environmental Considerations
CAN/CSA C22.2 No. 94.2-15	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA C22.2 No. 139-13 (updated 2016)	Electrically Operated Valves
CAN/CSA C22.2 No. 213-16	Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations
ANSI/UL 50 (Thirteenth Edition)	Enclosures for Electrical Equipment, Non-Environmental Considerations
ANSI/UL 50E (Second Edition)	Enclosures for Electrical Equipment, Environmental Considerations
ANSI/UL 429 (Seventh Edition)	Electrically Operated Valves
ANSI/UL 1203 (Fifth Edition)	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for use in Hazardous (Classified) Locations
ANSI/ISA 12.12.01-2016	Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations
ANSI/ISA 12.27.01-2011	Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids

Note: Standards C22.2 No. 213 and ISA 12.12.01 applied for Class III assessment only.

### **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 in 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.

Method of Marking: The following markings are provided on an etched / stamped 1100-H24 aluminum metallic nameplate, affixed to the polyester powder coat painted metallic enclosure by means of 3M 468MP adhesive. The 468MP adhesive material (UR File [MH17478](#)), is suitable for indoor and outdoor use.

The following markings shall appear on all products:

1. The CSA Mark, as shown on page 1 of the Certificate of Conformity.



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2. Manufacturer's name "Kimray Incorporated", or CSA master contract number "241151" adjacent to the CSA Mark in lieu of manufacturer's name.
3. Model number: As specified in the PRODUCTS section above.
4. Electrical ratings, including: As specified in the PRODUCTS section above.
  - a. Voltage (Vdc)
  - b. Holding current (A) or power (VA or W).
5. Electrical ratings of output contacts for the control of external loads: As specified in the PRODUCTS section above.
6. The wording "Continuous Operation" or equivalent.
7. The specific process fluid or group of fluids intended for use: As specified in the PRODUCTS section above.
8. The intended direction of flow through the valve.
9. Ambient temperature rating: As specified in the PRODUCTS section above.
10. Process temperature rating: As specified in the PRODUCTS section above.
11. Process (working) pressure rating in pascals: As specified in the PRODUCTS section above.
12. Enclosure rating: As specified in the PRODUCTS section above.
13. Manufacturing date in MMY format, or serial number, traceable to year and month of manufacture.
14. Identification of factory location, when produced at multiple locations.
15. Hazardous Location designation: As specified in the PRODUCTS section above.
16. Temperature code: As specified in the PRODUCTS section above.
17. The wording "Dual Seal"
18. The following or equivalent markings:
  - a. "CAUTION: USE SUPPLY WIRES SUITABLE FOR AT LEAST 90°C" and "ATTENTION: EMPLOYER DES FILS D'ALIMENTATION QUI CONVIENTENT POUR AU MOINS 90°C".
  - b. "TO BE CONNECTED TO A CLASS 2 CIRCUIT ONLY" and "RACCORDER UNIQUEMENT À UN CIRCUIT DE CLASSE 2".
  - c. "CAUTION: KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE" and "ATTENTION: GARDER LE COUVERCLE BIEN FERMÉ TANT QUE LE CIRCUITS SONT SOUS TENSION".
  - d. "A SEAL SHALL BE INSTALLED WITHIN 18 in (45 cm) OF THE ENCLOSURE" and "UN SCÉLLEMENT DOIT ÊTRE INSTALLÉ À MOINS DE 45 cm (18 in) DU BOÎTER"



## *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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<b>Project</b>	<b>Date</b>	<b>Description</b>
70194150	2018-12-19	Update to report 70145598 in response to internal technical audit findings. Drawings updated.
70145598	2017-11-21	Original certification of the Electric Low Pressure Valve 130 xEy ELO zzz aa model series with KA75 series modules use in Class I, Division 1, Groups B, C, D; Class II, Division 1, Groups E, F, G; Class III hazardous locations, including Dual Seal with Annunciation.