



# Certificate of Compliance

**Certificate:** 80120102

**Master Contract:** 215681

**Project:** 80120102

**Date Issued:** 2022-08-30

**Issued to:** Bifold Fluidpower Limited  
Broadgate  
Oldham Broadway Business Park  
Chadderton, Manchester, 019 9xa  
United Kingdom

**Attention:** Andrew Gillespie

*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:**

Oong Lee

## **PRODUCTS**

CLASS 3228-02 VALVES – Actuators - For Hazardous Locations

CLASS 3228-82 VALVES – Actuators - For Hazardous Locations - Certified to U.S Standards

**Class I Division 2 Group A, B, C, D T6 - T4**

**Class I Zone 2 Group IIC T6 - T4 (for US only)**

Valve Actuator – Type 79 and Type 29 Solenoid Operators, rated for 24 Vdc, max. 3.6 W, Type 4X enclosure, 6000 operations. Ambient Temperature as below.

Ambient Temperature:

-40 °C to + 90 °C for Temperature class T4

-40 °C to + 55 °C for Temperature class T5

-40 °C to + 40 °C for Temperature class T6



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**Conditions of Acceptability:**

1. Wiring to or from this device, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 Hazardous Locations, as appropriate for the installation.
2. A suitably certified cable gland shall be used for external connection.
3. Certified as electrical solenoid component models for general purpose application where suitable of combination in final valve assembly is to be determined by the Authority that certifies the end product.
4. The product has been tested as a component in conjunction with pneumatic valves FP03P and FP06P. The combination of solenoid coil assemblies with any other end use valve bodies shall be evaluated in accordance with the applicable performance tests outlined in Standard CSA C22.2. No.139 and UL 429 with regard to the electrical, pressure, temperature ratings, fluid types and the product type designations.

**APPLICABLE REQUIREMENTS**

CSA C22.2 No. 213-17, UPD1, UPD2, UPD3

Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations

ANSI/UL 121201-2021

Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

CSA C22.2 No. 139-19  
UL 429-2020

Electrically operated valves  
Electrically operated valves



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## **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.

The label is a metal plate, and the marking items are embossed and paint filled.

- The CSA Mark with adjacent C\_US qualifiers
- Manufacturer
- Model designation
- Electrical rating
- Serial number and a date code that is traceable to the year of manufacture
- The hazardous location designation (Class I Division 2 Group A,B,C,D T6 - T4 or Class I Zone 2 Group IIC T6 - T4 (for US only))
- The temperature class
- The ambient temperature range
- The following warnings:

**WARNING – EXPLOSION HAZARD. DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS:** This warning is also marked in French: **AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS DÉBRANCHER PENDANT QUE LE CIRCUIT EST SOUS TENSION OU À MOINS QUE L'EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES.**



## *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>
80120102	2022-08-30	Original Certification.