



Certificate of Compliance

Certificate: 1398692

Master Contract: 215681

Project: 2527725

Date Issued: February 21, 2013

Issued to: **Bifold Fluid Power Limited**

**Greengate Industrial Park
Greenside Way
Manchester, MS4 1SW
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.



Mitchell Rushing

Issued by: Mitchell Rushing

PRODUCTS

CLASS 3228 02 - VALVES - Actuators - For Hazardous Locations

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

Class I, Division 1, Groups B, C, D for both Canada and U.S.A.;

Additional for Canada, Class I, Zone 1, Ex d IIC

Additional for U.S.A., Class I, Zone 1, AEx d IIC

Solenoid Valve Operators, FP Series, Type:

FP-87L (14W), FP-87A (8W), FP-87D (5.7W), FP-87C (3.5W), FP-97C (3W), FP-97D (5.7W), FP-97E (2W), FP-97F (1.5W), and

Solenoid Valve Operators, FP-77 Series, (Max 14W),



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Rated 24Vdc, 50Vdc, 110Vac/dc, 120Vac/dc, 220Vac/dc or 240Vac/dc, maximum 8W; Enclosure Type 4X (IP66)

T85oC (Tamb -60oC to +40oC) or

T100oC (Tamb -60oC to +55oC) or

T135oC (Tamb -60oC to +90oC);

(Operation ambient is dependent upon O-ring type)

Rated 24Vdc, 110Vdc, 120Vac Rectified, maximum 14W; Enclosure Type 4X (IP66)

T85oC (Tamb -60oC to +40oC) or

T100oC (Tamb -60oC to +55oC) or

T135oC (Tamb -60oC to +90oC);

(Operation ambient is dependent upon O-ring type)

APPLICABLE REQUIREMENTS

Class Description Record: Class No: 3228-02 VALVE Actuators For Hazardous Locations,

CSA Standard C22.2 No 0-10 - General Requirements - Canadian Electrical Code, Part II

CSA Standard C22.2 No. 0.4-04 – Bonding of Electrical Equipment (Protective Grounding)

CSA Standard C22.2 No 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CSA Standard C22.2 No 139-10 - Electrically Operated Valves

CSA Standard C22.2 No. 94-91 – Special Purpose Enclosures

CSA Standard 60079-0-11 - General Requirements

CSA Standard 60079-1-11 - Equipment Protection by Flameproof Enclosures, 'd'

Class Description Record: Class No: 3228-82- VALVE Actuators For Hazardous Locations - Certified to US Standards,

Note: Product requires compliance to ANSI/UL Standard 429 for use in ordinary locations.

ANSI/UL Standard 50 Edition 11 – Enclosures for Electrical Equipment

ANSI/UL Standard 1203 Edition 4 - Explosion-Proof and Dust Ignition-Proof Electrical Equipment for use in Hazardous Locations



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UL Standard 60079-0, Ed. 5 - General Requirements

UL Standard 60079-1, Ed. 6 - Equipment Protection by Flameproof Enclosures, 'd'