



# Certificate of Compliance

**Certificate:** 1676463

**Master Contract:** 224038

**Project:** 70027981

**Date Issued:** April 8, 2015

**Issued to:** Rotork Midland Ltd.  
Patrick Gregory Rd  
Wolverhampton,  
West Midlands WV11 3DZ  
UNITED KINGDOM  
Attention: Ben Evans

*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:** *Hannah Gambell*  
Hannah Gambell

## PRODUCTS

CLASS - C322801 - VALVES-For Hazardous Locations

CLASS - C322881 - VALVES-For Hazardous Locations - Certified to US Standards

**Ex d IIC Tx**

**Class 1, Zone 1, AEx d IIC Tx**

Solenoid operated valve Model 'Solenoid For Use in Haz Loc' supply input rated up to 230V AC or 212V DC, 11.5 Watts AC max or 14.5 Watts DC max., maximum working pressure rated up to 46.5 Bars (675 psi), Ex d IIC; IP67;  $-50^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$  (T6),  $-50^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$  (T4) or  $-50^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$  (T4).



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### **APPLICABLE REQUIREMENTS**

CSA E60079-0:02 March 2002	-	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
CSA E60079-1:02 January 2002	-	Electrical Apparatus for Explosive Gas Atmospheres – Part 1: Flameproof Enclosures “d”
CSA C22.2 No. 139-1982	-	Electrically Operated Valves
CAN/CSA C22.2 60529:05 July 2005	-	Degree of Protection Provided by Enclosures (IP Code)
UL 60079-0 August 2005	-	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
UL 60079-1 August 2005	-	Electrical Apparatus for Explosive Gas Atmospheres – Part 1: Flameproof Enclosures “d”
UL 429 March 1999, Fifth Ed.	-	Electrically Operated Valves

### **MARKINGS**

Product markings shall be in accordance with the related standards. In addition, it shall be the responsibility of the manufacturer to provide additional markings on the product to comply with the requirements of the local regulatory authorities. For example, in Canada, any caution and warning markings must be provided in French and English.

**Method of Marking:** Marking information shown below is etched and/or engraved onto a stainless steel nameplate having a thickness of 0.5 mm minimum, which is secured to solenoid housing cover by two stainless steel drive screws No. 2 x 3/16”:

Refer to drawing 6814L. The following marking details appear:

- a- Submitter’s name;
- b- CSA Mark with adjacent C/US indicator;
- c- Model number ‘Solenoid for Use in Haz Loc’;
- d- Protection method and gas group, i.e. “Ex d IIC”;
- e- Serial number/ date code;
- f- Electrical rating;
- g- Temperature code rating;
- h- Ambient range;
- i- Maximum working pressure;
- j- Ingress protection rating (IP67);
- k- Caution: “Do Not Open Until 40 Minutes After De-energizing”; and
- l- Caution: “Use Minimum 120°C Temperature Rated Cable”;



## *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>
70027981	April 8, 2015	Change of company name from Xylem Flow Control Ltd to Rotork Midland Ltd on certificate 1676463.
2531738	Jun 29 2012	Update of IEC report 1676463-2146043 to change the company name on certificate
2146043	Mar 18 2009	Update of Report 1676463 for Solenoid operated vavle to reissue with new company name.
1676463	Aug 15 2006	Solenoid operated valve Model 'Solenoid for Use in Haz Loc' - Original certification