



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

5a37-bcdefg-hi-jklm. Digital Positioner.

IS/I/1/ABCD/T4 Ta = -20°C to 85°C, T6 Ta = -52°C to 45°C; - 291780; Entity
I/O/AEx ia IIC/T4 Ta = -20°C to 85°C, T6 Ta = -52°C to 45°C; - 291780; Entity
NI/I/2/ABCD/ T4 Ta = -20°C to 85°C, T6 Ta = -52°C to 45°C

Type 4X, IP66

Entity Parameters:

	4-20 Input	MFC Card	Limit Switch	Remote Mount Terminals	
			-02	Uo (V)	5
Ui (V)	30	30	10.6	Io (mA)	79
Ii (mA)	100	100	29.7	Po (mW)	129
Pi (mW)	800	800	79	Co (µF)	2
Ci (nF)	0	0	1	Lo (µH)	100
Li (µF)	47	0	1		

a = Communication and Diagnostics: 05+, 10+, 20MD+, 21MD+ or 22MD+.

b = Housing: W, Y, B or A.

c = Threaded Connection: 1, 2 or 3.

d = Shaft: D or R.

e = Action: 1, 2 or 3.

f = Position Indicator: 0, F or D.

g = Special Options: 0 or 1.

h = Manifold: 00 or GM.

i = Pressure Gauge: 0, 1, 2, 3, 4, A or B.

j = LCD: 0 or 1.

k = Auxiliary Card slot 1: 0 or 2 1.

l = Auxiliary Card slot 2: 0 or 1.

m = Limit Switch or Remote Mount: 2 or 7.

Special Conditions of Use:

1. To prevent the risk of electrostatic sparking the enclosure shall only be cleaned with a damp cloth.

To verify the availability of the Approved product, please refer to www.approvalguide.com

2. The Digital Positioner enclosure contains aluminum and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

420-40-abc-de. Digital Positioner.

IS/I/1/ABCD/T4 Ta = -20°C to 85°C, T6 Ta = -52°C to 45°C - 314746; Entity
 I/O/AEx ia IIC/T4 Ta = -20°C to 85°C, T6 Ta = -52°C to 45°C - 314746; Entity
 Type 4X, IP66

Entity Parameters:

	4-20 Input
Ui (V)	30
Ii (mA)	100
Pi (mW)	800
Ci (nF)	0
Li (µH)	47

a = General Option: W or N.

b = Threaded Connection: 1, 2 or 3.

c = Feedback Shaft: D or R.

d = Gauge: 0, 1, 2, 3, 4, A or B.

e = Display: 0, 1 or 2.

Special Conditions of Use:

1. To prevent the risk of electrostatic sparking the enclosure shall only be cleaned with a damp cloth.
2. The Digital Positioner enclosure contains aluminum and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

Equipment Ratings:

Intrinsically Safe for Class I, Division 1, Groups A, B, C and D indoor and outdoor (Type 4X and IP66) hazardous (Classified) locations in accordance with drawing 291780 and 314746,
 Intrinsically Safe for Class I, Zone 0, Group IIC indoor and outdoor (Type 4X and IP66) hazardous (Classified) locations in accordance with Control Drawing 291780 and 314746,
 Nonincendive for Class I, Division 2, Groups A, B, C and D indoor and outdoor (Type 4X and IP66) hazardous (Classified) Locations.

FM Approved for:

Flowsolve US Inc
 Springville, UT United States

To verify the availability of the Approved product, please refer to www.approvalguide.com



This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	2011
Class 3610	2010
FM3611	2004
FM3810	2005
ANSI/NEMA 250	2003
ANSI/IEC 60529	2004
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2011

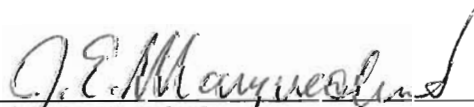
Original Project ID: 3044377

Approval Granted: September 7, 2012

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3047577	November 21, 2012		
130104	January 11, 2013		
3049443	January 20, 2014		
140124	March 12, 2014		

FM Approvals LLC



 J. E. Marquedant
 Group Manager, Electrical

17. March 2014
 Date

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