



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:

34abccdefg40hi. Logix 3400IQ/MD Digital Valve Positioner.

IS / I,II,III / 1 / ABCDEFG, T6, $-40^{\circ}\text{C} \leq \text{Ta} \leq 40^{\circ}\text{C}$, T4, $-40^{\circ}\text{C} \leq \text{Ta} \leq 80^{\circ}\text{C}$ – 234401, Entity, FISCO

I / 0 / AEx ia IIC, T6, $-40^{\circ}\text{C} \leq \text{Ta} \leq 40^{\circ}\text{C}$, T4, $-40^{\circ}\text{C} \leq \text{Ta} \leq 80^{\circ}\text{C}$ – 234401, Entity, FISCO

Enclosure Types 4, 4X, IP65

FISCO / Entity Parameters:

$U_i = 24\text{V}$, $I_i = 380\text{ mA}$, $P_i = 5.32\text{ W}$, $C_i = 3300\text{ pF}$, $L_i = 0\text{ uH}$

a = Diagnostics: 0, 1 or 2

b = Enclosure: 0, 1, 2, 3, 4 or 5

cc = Software: IQ or MD

d = Certification: 02 or 34

e = Shaft: D6 or N6

f = Conduit entry: E or M

g = Action: 04, 03, 3P, 4V or 3V

h = Gauges: 0G, 0S, KG, KS or 0U

i = Special options: 00 or SF

Specific Conditions of Use:

1. When used within a Zone 0 or Division 1 location, cast-aluminum (options 0, 2, 3, 4, 5) enclosures shall be installed in such manner as to prevent the possibility of sparks resulting from friction or impact against the enclosure.
2. To prevent the risk of electrostatic sparking, the equipment shall be cleaned only with a damp cloth.
3. For equipment configured with Certification Option 34, the user shall, using the box provided on the nameplate, permanently mark the protection type chosen for the specific installation. Once the type of protection has been marked it shall not be changed.



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Equipment Ratings:

Intrinsically safe, Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; AEx ia IIC; T6, $-40^{\circ}\text{C} \leq T_a \leq 40^{\circ}\text{C}$, T4, $-40^{\circ}\text{C} \leq T_a \leq 80^{\circ}\text{C}$; entity and FISCO for hazardous (classified) locations when installed per drawing 234401; enclosure types 4, 4X, ingress protection IP65

FM Approved for:

Flowserve US Inc
Springville Operations
Springville, UT, United States



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

FM Class 3610	2011
FM Class 3610	2010
FM Class 3810	2005
ANSI/ISA 60079-0	2013
ANSI/ISA 60079-11	2014
NEMA 250	2003
ANSI/ICE 60529	2011

Original Project ID: 3027196

Approval Granted: August 24, 2007

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
091201	March 12, 2010		
110606	September 7, 2011		
3050552	September 1, 2015		

FM Approvals LLC

J.E. Marquedant

J.E. Marquedant
Manager of Electrical Systems

1 September 2015

Date