



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:

***N*Tabcd-10-efghjk. IP Positioner.**

XP / I / 1 / BCD / T4 Ta = 80°C; IS / I / 1 / ABCD / T4 Ta = 80°C — 97195; Entity;  
I / O / AEx ia IIC / T4 Ta = 80°C — 97195; Entity; DIP / II,III / 1 / EFG / T4Ta =80°C;  
NI / I / 2 / ABCD / T4 Ta = 80°C; Type 4X

Entity parameters:

Vmax =30 Vdc, I max = 125 mA, Pi = 800 mW, Ci = \*, Li = 1 mH.

\*Ci = 0 µF for barrier Voc or Vt not less than 6.5 Vdc and not greater than 30 Vdc.

a = Series 3.

b = Communication 0.

d = Material 0, 1 or 2.

e = Gauges 2, 4, 6, 8 or 9.

f = Soft goods S, V or E.

g = Connection M or N.

h = Vent 1 or 2.

j = Paint W, B, F, S or P.

k = Special options – One or two digit alphanumeric code not affecting safety.

### Equipment Ratings:

Explosionproof for Class I, Division 1, Groups B, C, and D, Intrinsically Safe for Class I, Division 1, Groups A, B, C and D, and for Class I, Zone 0, Group IIC with entity parameters; Dust ignition proof for Class II, III, Division 1, Groups E, F, and G; Nonincendive for Class I, Division 2, Groups A, B, C, and D; Temperature Code T4 with an ambient of 80°C; NEMA Type 4X Hazardous (Classified) Locations.

### FM Approved for:

Flowserve USA Inc.  
Springville, UT 84663



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

Class 3600	1998
Class 3610	2010
Class 3611	2004
Class 3810	2005
NEMA - 250	1991
ANSI/ISA-60079-0	2009
ANSI/ISA-60079-11	2009

Original Project ID: 3017230

Approval Granted: May 21, 2003

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
050324	March 29, 2005		
081103	November 20, 2008		
3042176	December 8, 2011		

FM Approvals LLC

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Timothy Adam  
Technical Team Manager

Dec. 8<sup>th</sup>, 2011

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Date