



FM Approvals  
1151 Boston Providence Turnpike  
P.O. Box 9102 Norwood, MA 02062 USA  
T: 781 762 4300 F: 781-762-9375 www.fmapprovals.com

# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

**ENabcde-f. Valve Position Monitor.**

IS\* / I,II,III / 1 / ABCDEFG / T5 Ta = 80°C – 105073; Entity\*\*; FISCO\*\*\*; NI / I / 2 / ABCD / T5 Ta = 80°C  
— 105073; NIFW\*\*\*\*;

S / II / 2 / FG/T5 Ta = 80°C; Type 4, 4X, 6

*\*Intrinsically Safe only when a = 44 and 93.*

*\*\*Entity Parameters when a = 44, Ui = 22V dc, li = 120 mA, Ci = 98nF, Li = 0.8 mH, Pi = 2.0 W*

*\*\*\*FISCO Parameters only when a = 93, Ui = 30 V dc, li = 380 mA, Ci = 0.0nF, Li = 0.0mH, Pi = 5.32 W*

*\*\*\*\*NIFW Parameters only when a = 93 Ui = 30 V dc, li = 380 mA, Ci = 0.0nF, Li = 0.0mH, Pi = 5.32 W*

*\*\*\*\*NIFW Parameters only when a = 96, 97, Ui = 37 V dc, li = 150 mA, Ci = 0.0nF, Li = 0.0mH, Pi = 3.0 W*

a = Function 33, 34, 44, 92, 93, 94, 95, 96 and 97.

b = Enclosure C and P

c = Junction 02, 05, 11 and 12

d = Visual Indication X, G, R, F, 1, 2, 0, N, D, L, S and T

e = Branding A, M and N

f = Options 1-5 alpha or numeric digits for special and marketing identification (not affecting safety).

**EGabcde-f. Valve Position Monitor.**

IS\* / I,II,III / 1 / ABCDEFG / T5 Ta = 80°C – 105149; Entity\*\*; FISCO\*\*\*; NI / I / 2 / ABCD / T5 Ta = 80°C  
— 105149; NIFW\*\*\*\*;

S / II / 2 / FG/T5 Ta = 80°C; Type 4, 4X, 6

*\*Intrinsically Safe only when a = 44 and 93.*

*\*\*Entity Parameters when a = 44, Ui = 22V dc, li = 120 mA, Ci = 98nF, Li = 0.8 mH, Pi = 2.0 W*

*\*\*\*FISCO Parameters only when a = 93, Ui = 30 V dc, li = 380 mA, Ci = 0.0nF, Li = 0.0mH, Pi = 5.32 W*

*\*\*\*\*NIFW Parameters only when a = 93 Ui = 30 V dc, li = 380 mA, Ci = 0.0nF, Li = 0.0mH, Pi = 5.32 W*

*\*\*\*\*NIFW Parameters only when a = 96, 97, Ui = 37 V dc, li = 150 mA, Ci = 0.0nF, Li = 0.0mH, Pi = 3.0 W*

a = Function 33, 34, 44, 92, 93, 94, 95, 96 and 97.

b = Enclosure C and P

c = Junction 23, 24, 25 and 26

d = Visual Indication X, G, R, F, 1, 2, 0, N, D, L, S and T

e = Branding A, M and N

f = Options 1-5 alpha or numeric digits for special and marketing identification (not affecting safety).



## Equipment Ratings:

Intrinsically Safe with Entity Parameters and FISCO Parameters for use in Class I, II, III, Division 1, Group A, B, C, D, E, F, and G T5 Ta = 80°C, Nonincendive with nonincendive field wiring parameters for use in Class I, Division 2, Group A, B, C, D T5 Ta = 80°C, Suitable for Class II, Division 2, Group F and G T5 Ta = 80°C, NEMA Type 4, 4X and 6 Hazardous (Classified) Indoor and Outdoor Locations.

## FM Approved for:

StoneL Corporation  
One StoneL Drive  
Fergus Falls, MN 56537



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

Class 3600	1998
Class 3610	1999
Class 3611	2004
Class 3810	2005
ANSI/NEMA 250	1991


Original Project ID: 3002488

Approval Granted: February 18, 1999

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3013985	April 11, 2002		
3014454	July 23, 2002		
050808	September 1, 2005		
070424	August 23, 2007		
080417	September 5, 2008		

FM Approvals LLC

  
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J.E. Marquedant  
Group Manager, Electrical

5 September 2008  
Date