

FM Approvals
1151 Boston Providence Turnpike
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

PMabcdef-xxx. Prism Valve Position Monitor.

IS* / I, II, III / 1 / ABCDEFG / T5** Ta = 80°C – 105116, 105118; Entity***; FISCO****, NI / I / 2 / ABCD / T5** Ta = 80°C – 105021, 105118, 105133; NIFW*****; S / II, III / 2 / FG / T5** Ta = 80°C; Type 4, 4X, 6.

* *Intrinsically Safe only when a = 44, 93.*

** *When b = 1A, 1B, 1C, 1D or 1E T4 Ta = 50°C.*

*** *Entity Parameters when a = 44, Ui = 28 Vdc, li = 120 mA, Pi = 2.0W, Ci = 60 nF, Li = 0.8 mH.*

*** *Entity Parameters when b = 1E, Ui = 28 Vdc, li = 120 mA, Pi = 1.0W, Ci = 0, Li = 0.*

**** *FISCO Parameters only when a = 93, Ui = 30Vdc, li = 380 mA, Pi = 5.32W, Ci = 0, Li = 0.*

***** *NIFW Parameters only when a = 93 Ui = 30 Vdc, li = 380 mA, Pi = 5.32W, Ci = 0, Li = 0.*

***** *NIFW Parameters only when a = 96 or 97, Ui = 37 Vdc, li = 150 mA, Pi = 3.0W, Ci = 0, Li = 0.*

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

b = Solenoid 11, 1A, 1B, 1C, 1D, or 1E.

c = Enclosure S.

d = Junction 02, 05, 09, 11, 13, 14, 15, or 16.

e = Visual Indication X, G, R.

f = Valve Size S or L.

xxx = Optional 3 – 5 Alpha or Numeric Digits for Special and Marketing Identification (not affecting safety).

Special Conditions of Use:

1. *Part of the enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned only with a damp cloth.*

PMabcdefS-xxx. Prism Valve Position Monitor.

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* *Intrinsically Safe only when a = 44, 93.*

** *When b = 1A, 1B, 1C, 1D or 1E T4 Ta = 50°C.*

*** *Entity Parameters when a = 44, Ui = 28 Vdc, li = 120 mA, Pi = 2.0W, Ci = 60 nF, Li = 0.8 mH.*

*** *Entity Parameters when b = 1E, Ui = 28 Vdc, li = 120 mA, Pi = 1.0W, Ci = 0, Li = 0.*

**** *FISCO Parameters only when a = 93, Ui = 30Vdc, li = 380 mA, Pi = 5.32W, Ci = 0, Li = 0.*

***** *NIFW Parameters only when a = 93 Ui = 30 Vdc, li = 380 mA, Pi = 5.32W, Ci = 0, Li = 0.*

***** *NIFW Parameters only when a = 96 or 97, Ui = 37 Vdc, li = 150 mA, Pi = 3.0W, Ci = 0, Li = 0.*

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

b = Solenoid 11, 1A, 1B, 1C, 1D, or 1E.

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c = Enclosure B.

d = Junction 02, 05, 09, 11, 13, 14, 15, or 16.

e = Visual Indication X, N, or D.

f = Valve Size S or L.

xxx = Optional 3 – 5 Alpha or Numeric Digits for Special and Marketing Identification (not affecting safety)

Special Conditions of Use:

1. *Part of the enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned only with a damp cloth.*

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, III 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
26271 US Hwy 59
Fergus Falls MN. 56537

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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
Class 3611	2004
Class 3810	2005
ANSI/NEMA 250	1991

Original Project ID: 3021298

Approval Granted: July 6, 2005

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
050822	September 1, 2005		
3046824	November 11, 2013		

FM Approvals LLC


J. E. Marquedant
Group Manager, Electrical

11 November 2013
Date