



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:

I. 6000 Series Servo Tank Gauge

N605-abcdefghijklm. Servo Tank Gauge.

XP-AIS/I/1/CD/T4 Ta = 60°C – Ex421-691; Entity

XP-AIS/I/1/IIB/T4 Ta = 60°C – Ex421-691; Entity

XP-ANI/I/2/CD/T4 Ta = 60°C – Ex421-691; Entity

DIP/II,III/1/EFG/T4 Ta = 60°C; Type 4X

- a = Pressure rating 1, 2, 4, 5 or 6
- b = Protection class 5 or N
- c = Measuring Function A, B, C, D, E, F, G, H or J
- d = Primary (digital) output A, B, C, D, F, G, H, J, K, L, M, N, P or Q
- e = Secondary output A, 0, 1, 2, 3, 4 or 5
- f = Signal input from field units 0, 1, 2, 3, 4, 5 or 6
- g = Measuring range, wire material A, B, C, G, H, J, K, L, M or N
- h = Cable entry E, F, G, H, J, K, L or M
- i = Process connection A, B, C, E, F, G, J, L, N, Q, R, S, T, U, W or Y
- j = Power supply 3 or 4
- k = Displacer shape/diameter/material B, D, K, N, R, S, T, U, V or W
- l = O-ring, chamber finishing A, 0, 1, 2, 3, 4, 5, 6, 7 or 8
- m = Options A, C, D, E, G, H, J, L, M, N, P, Q, R, S, T or U

Entity/Nonincendive Field Wiring Parameters:

Protection Class P:

U o = 11.3 V, I o = 81.6 mA, P o = 406 mW, C o = 1.3 μ F, L o = 4.0 mH

Protection Class N:

U o = 28.7 V, I o = 113 mA, P o = 810 mW, C o = 165 nF, L o = 2.5 mH



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II. Servo Monitor

N4560abcde. Servo Monitor.

XP/I/1/ABCD/T4 Ta = 60°C

DIP/II,III/1/EFG/T4 Ta = 60°C; Type 4X

a = 4

b = Cable entry: A, B, C or D.

c = Power supply: 3 or 4.

d = Mounting bracket: 0 or 1.

e = Painting: 0.

Equipment Ratings:

I. 6000 Series Servo Tank Gauge

Explosionproof with Intrinsically Safe outputs for use in Class I, Division 1, Groups C & D, and Class I, Zone 1, Group IIB, in accordance with manufacturer's Control Drawing No. Ex421-691

Explosionproof for use in Class I, Division 1, Groups C & D with Nonincendive Field Wiring Parameters for use in Class I, Division 2, Groups C & D, in accordance with manufacturer's Control Drawing No. Ex421-691

Dust-Ignition Proof for Class II & III, Division 1, Groups E, F & G, indoor/outdoor (Type 4X) hazardous (classified) locations

II. Servo Monitor

Explosionproof for use in Class I, Division 1, Groups A, B, C & D

Dust-Ignition Proof for Class II & III, Division 1, Groups E, F & G, indoor/outdoor (Type 4X) hazardous (classified) locations

FM Approved for:

Varec, Inc.
Norcross, GA, USA

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 3615	2006
Class 3810	1989
ANSI/NEMA 250	1991

Original Project ID: 3019368

Approval Granted: February 11, 2004

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
110412	May 6, 2011		
RR203460	January 17, 2016		
RR203912	January 27, 2016		

FM Approvals LLC



J.E. Marquedant
Manager, Electrical Systems

27 January 2016

Date