



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

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

Model 3701-3abcd. Solenoid Valve

IS / I,II,III / 1 / ABCDEFG / T6 Ta = 60°C - Addendum to EB 8375 EN, pages 4, 5 & 6; Entity; Type 3R
I / 0 / AEx ia IIC / T6 Ta = 60°C - Addendum to EB 8375 EN, pages 4, 5 & 6; Entity; Type 3R
NI / I / 2 / ABCD / T6 Ta = 60°C; S / II,III / 2 / FG / T6 Ta = 60°C; Type 3R

Entity Parameters:

V_{max} (U_i) = 28V, I_{max} (I_i) = 115mA, P_{max} (P_i) = 0.25W, C_i = 0, L_i = 0
Solenoid valve (nominal signal) 6VDC version P_{max} (P_i)=250mW
Solenoid valve (nominal signal) 12VDC and 24VDC version P_{max} (P_i) not limited

a = Nominal signal: 1 = 6V, 2 = 12V or 3 = 24V.

b = Function test 0 = none or 1= TUV.

c = Switching function: 1=1, 2=2, 3=3 or 4=4.

d = Connecting Thread: attachment and connection facilities controls or pneumatic switching functions.

Equipment Ratings:

The apparatus was evaluated as intrinsically safe electrical apparatus with Entity requirements for use in Class I, II, III, Division 1, Groups A, B, C, D, F and G and alternatively for Class I, Zone 0, AEx ia IIC in accordance with manufacturing installation manuals; non incensive for Class I, Division 2, Groups A, B, C and D; suitable for Class II, Division 2, Groups F and G indoor/outdoor Type 3R hazardous (classified) Locations.

Approved for:

Samson AG
Postfach 101901 D-60314 Frankfurt, Germany



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

Class 3600	1998
Class 3610	1999
Class 3611	1999
Class 3810 Supp No. 1	1995
ANSI/NEMA 250	1991

Original Project ID: 3020228

FM Approval Granted: *FEB 25, 2005*

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
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FM Global Technologies LLC

[Signature]
 Robert L. Martell, Jr.
 Assistant Vice President
 FM Approvals

FEB 25, 2005
 Date