



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: issue No.:

Status:

Date of Issue: **2009-08-21** Page 1 of 3

Applicant: **Versa Products Company, Inc.**
22 Spring Valley Road
Paramus
New Jersey 07652
United States of America

Electrical Apparatus: **Electromagnetic Solenoid Valve Operator Type P-2002-02-XMA*-VOLT and Type P-2002-02-XMF*-VOLT**
Optional accessory:

Type of Protection: **Ex e, Ex mb, Ex tD**


Marking: **Ex e mb II T5, T6 Gb
Ex tD A21 IP66/IP67 T100 °C, T85 °C Db**

Approved for issue on behalf of the IECEx Certification Body: C.G. van Es

Position: Certification Manager

Signature:
(for printed version)

Date:



2009-08-21

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

KEMA Quality B.V.
Utrechtseweg 310
6812 AR Arnhem
The Netherlands





IECEx Certificate of Conformity

Certificate No.: IECEx KEM 09.0043X

Date of Issue: 2009-08-21

Issue No.: 0

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Manufacturer: **Versa Products Company, Inc.**
22 Spring Valley Road
Paramus
New Jersey 07652
United States of America

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-18 : 2004 Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

NL/KEM/ExTR09.0044/00

Quality Assessment Report:

NL/KEM/QAR08.0018/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

See Annexe.

CONDITIONS OF CERTIFICATION: YES as shown below:

Electrostatic charges on the plastic enclosure of the Valve Operator shall be avoided.

The units must be externally protected by a fuse, as per following table:

Supply Voltage	12 Vdc	24 Vdc	110 Vdc	125 Vdc	220 Vdc	24 Vac	115 Vac	230 Vac	250 Vac
Fuse rating	1.0 A	0.5 A	0.1 A	0.1 A	0.063 A	0.5 A	0.1 A	0.063 A	0.050 A

shall have a voltage rating not less than that of the supply, and shall have a breaking capacity not less than the fault current of the supply. ^{Fi}



Description

The Electromagnetic Solenoid Valve Operator Type P-2002-02-XMA*-VOLT consists of an encapsulated coil with bridge rectifier, while Type P-2002-02-XMF*-VOLT also contains a built in power controller. The magnetic field of the coil operates a spring-loaded valve.

The terminal in type of protection increased safety "e" serves to connect the field wiring.

The enclosure of the unit has a degree of protection of IP66 and IP67, provided that the unit is connected via a cable gland with at least the same IP Code.

Ambient temperature ranges:

-20 °C ... +55 °C for T6 (T85 °C)

-20 °C ... +65 °C for T5 (T100 °C)

Electrical data

The nominal supply-voltage of the valve operator is 24, 115, 230 or 250 Vac (50 Hz or 60 Hz) or 12, 24, 110, 125 or 220 Vdc, as specified by the suffix "VOLT" in the type identification of the Electromagnetic Solenoid Valve Operator.

$P_{max} = 4 \text{ W}$.