



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.: IECEx BVS 15.0115 issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2016-04-01** Page 1 of 4

Applicant: **Elster GmbH**
Strotheweg 1
49504 Lotte (Büren)
Germany

Electrical Apparatus: **Motorized valves type VK..X.**
Optional accessory:

Type of Protection: **Equipment protection by oil immersion "o", Equipment protection by increased safety "e"**

Marking: Ex e o IIC T5 Gb

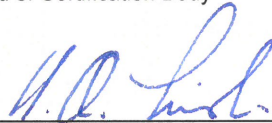
*Approved for issue on behalf of the IECEx
Certification Body:*

H.-Ch. Simanski

Position:

Head of Certification Body

*Signature:
(for printed version)*



1.4.16

Date:

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](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



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Manufacturer: **Elster GmbH**
Strothweg 1
49504 Lotte (Büren)
Germany

Additional 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 : 2011
Edition: 6.0 | Explosive atmospheres - Part 0: General requirements |
| IEC 60079-6 : 2007-03
Edition: 3 | Explosive atmospheres - Part 6: Equipment protection by oil immersion "o" |
| IEC 60079-7 : 2006-07
Edition: 4 | Explosive atmospheres - Part 7: Equipment protection by increased safety "e" |

*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:
[DE/BVS/ExTR16.0018/00](#)

Quality Assessment Report:
[DE/TUN/QAR15.0007/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and Type

See Annex

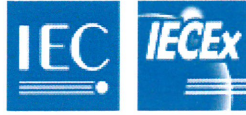
Description

The motorized valves type VK..X. in the two variants VK-X (piston diameter 60 mm) and VK-HX (piston diameter 90 mm) are used as safety valves for technical combustion gas. Both variants are constructed according to the same concept in the type of protection Oil Immersion.

The electrical components of the motorized valves are fully immersed in mineral oil Shell Diala S4 ZX-I (class II according to IEC 60296). The motorized valves are built as unsealed enclosure and have a breathing device. Excessively high oil temperatures are prevented by a non-reversible thermal fuse (cut-off temperature max. 94 ° C). When melting temperature of thermal fuse is reached the terminal compartment is disconnected at all poles via an externally provided circuitry.

The motorized valves are equipped with a terminal compartment as part of the housing, type of protection Increased Safety "e". The supply line is fixed installed outside the terminal compartment.

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

Electrical data

For the connection box in type of protection Increased Safety

Maximum voltage according to Table 1 of EN 60079-7: 2007 250 VAC

Variation 1

Rated voltage 110 VAC

Rated frequency 50/60 Hz

Maximum power consumption:

Opening process 55 W

Holding operation 9 W

Variation 2

Rated voltage 230 VAC

Rated frequency 50 Hz

Maximum power consumption:

Opening process 46 W

Holding operation 9 W

Variation 3

Rated voltage 230 VAC

Rated frequency 60 Hz

Maximum power consumption:

Opening process 52 W

Holding operation 9 W

Thermal data

Ambient temperature range -15 °C up to +40 °C



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Annex

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Subject and Type

Motorized valves

Type VK . . X .

