



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

### Ex COMPONENT CERTIFICATE

Certificate No.: IECEx CCVE 16.0008U

Issue No: 1

Certificate history:

Status: **Current**

Page 1 of 5

Issue No. 1 (2018-09-13)

Date of Issue: 2018-09-13

Issue No. 0 (2016-11-03)

Applicant: "ZAVOD GORELTEX" Co. Ltd.  
195176, Saint Petersburg, Revolutsii road, 18, lit. A  
Russian Federation

Ex Component: Empty flameproof enclosures types SHORVA..., KKVA...

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: flameproof enclosure "d", protection by enclosure "t"

Marking:

Ex db IIC Gb

Ex tb IIIC Db

IP66/IP67

Approved for issue on behalf of the IECEx  
Certification Body:

Alexander Zalogin

Position:

Head of NANIO CCVE

Signature:  
(for printed version)

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:

**NANIO CCVE**  
Zavod ECOMASH, VUGI Settlement  
Lyubertsy, Moscow region  
140004  
Russian Federation





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Certificate No: IECEX CCVE 16.0008U

Issue No: 1

Date of Issue: 2018-09-13

Page 2 of 5

Manufacturer: "ZAVOD GORELTEX" Co. Ltd.  
193149, Novosaratovka township area, liter A, Vsevolozhsky district, Leningrad region  
Russian Federation

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 Component 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 Ex Component 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 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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 Ex Component listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

[RU/CCVE/ExTR16.0007/00](#)      [RU/CCVE/ExTR16.0007/01](#)

#### Quality Assessment Report:

[RU/CCVE/QAR16.0004/00](#)      [RU/CCVE/QAR16.0004/01](#)



# IECEX Certificate of Conformity

Certificate No: IECEX CCVE 16.0008U

Issue No: 1

Date of Issue: 2018-09-13

Page 3 of 5

## Schedule

Ex Component(s) covered by this certificate is described below:

Empty enclosures of type SHORVA... are square flameproof enclosures consisting of a cover and a housing with a threaded joint. The cover and the housing are made of aluminum-silicon alloy, the stopping screw is made of stainless steel. The enclosures of aluminum-silicon alloy are coated with powder paint.

Empty enclosures of type KKVA... are flameproof enclosures of cylindrical form consisting of a cover and a housing with a threaded flameproof joint. The cover and the housing are made of aluminum-silicon alloy, the stopping screw is made of stainless steel. The enclosures of aluminum-silicon alloy are coated with powder paint. Grounding elements are installed inside and outside the housing.

The walls of the housing of the flameproof enclosures types SHORVA..., KKVA... may have threaded holes for mounting of cable glands, controls and other. The enclosures can be installed indoors and outdoors.

The covers of the enclosures of type SHORVA... may be provided with a window made of tempered glass sealed with a sealant.

Sealing ring between the housing and the cover shall be used for provision of IPX7 for empty enclosures of types SHORVA... and KKVA... .

### SCHEDULE OF LIMITATIONS:

- enclosures are not approved for separate use (without installed components inside) in explosion hazardous areas;
- inside the enclosures oil-filled circuit-breakers and contractors shall not be used;
- the content of the Ex components enclosures equipment may be placed in any arrangement, provided that an area of at least 40% of each cross-sectional area remains free. The holes in enclosures are specified on the following drawings: LGSA.121211.5.2016, LGSA.151512.5.2016, LGSA.171712.5.2016, LGSA.232316.5.2016, LGSA.272721.5.2016, LGSA.D90.1.2016, LGSA.D144.1.2018;
- separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.



# IECEX Certificate of Conformity

Certificate No: IECEx CCVE 16.0008U

Issue No: 1

Date of Issue: 2018-09-13

Page 4 of 5

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Issue 1:

- additional sizes of empty enclosures and additional designs of empty enclosures with glass windows and sealing rings to provide IPX7 rating were considered. The full list of considered models and sizes is specified in the Annex to this Certificate;
- new revisions of the drawings reflecting the changes for all the models were considered;
- the upper value of the ambient temperature range is changed from +60 °C to +85C;
- update to manufacturing address.



# IECEX Certificate of Conformity

Certificate No: IECEx CCVE 16.0008U

Issue No: 1

Date of Issue: 2018-09-13

Page 5 of 5

**Additional information:**

Additional information is given in the Annex.

**Annex:**

[Annex to IECEx\\_CCVE\\_16 0008U\\_1.pdf](#)

Копия для каталога

NANIO CCVE  
 Zavod ECOMASH, VUGI Settlement  
 Lyubertsy, Moscow region  
 140004  
 Russian Federation



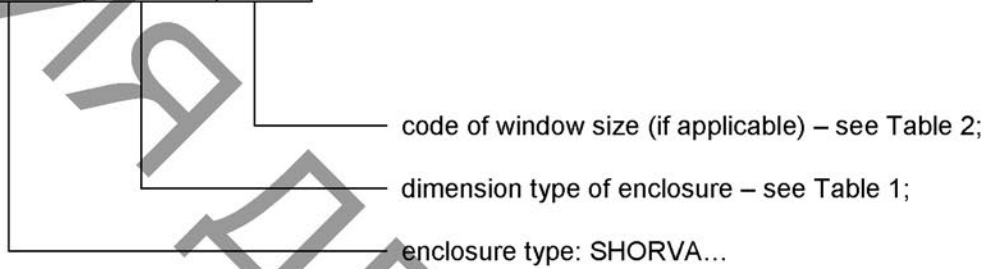
Annex to IECEx CCVE 16.0008U

Issue No. 1

Date: 2018-09-13

Enclosure symbol structure:

Empty enclosures type SHORVA...



Empty enclosures type KKVA...

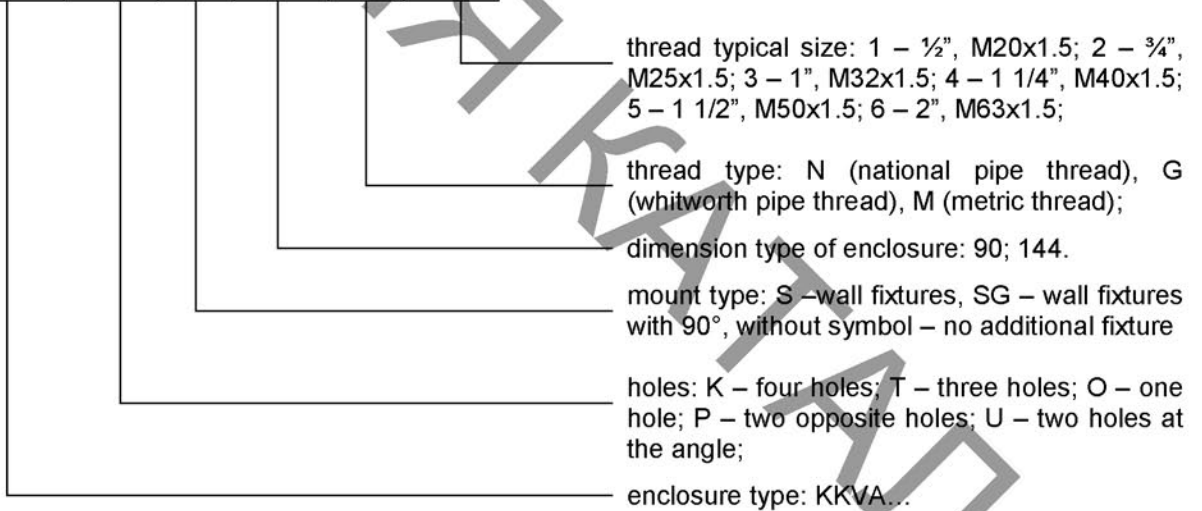
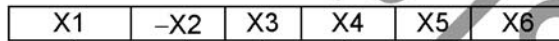


Table 1 – Dimension type of SHORVA... series enclosures

SHORVA...
121211
151512
171712
232316
272721

Table 2 – Codes of window sizes

Enclosure type:	Code of window size
SHORVA151512	O09
SHORVA171712	
SHORVA232316	O14
SHORVA272721	O18

Model identification: SHORVA121211, SHORVA151512, SHORVA171712, SHORVA232316, SHORVA272721, SHORVA151512-O09, SHORVA171712-O09, SHORVA232316-O14, SHORVA272721-O18, KKVA-...90..., KKVA-...144....

Ambient temperature range: from minus 60 °C to +85 °C

Service temperature range of the enclosures:

- with windows: from minus 60 °C to +100 °C;
- without windows: from minus 60 °C to +150 °C.