



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 CCVE 18.0014X

Issue No: 0

Certificate history:

Issue No. 0 (2019-01-24)

Status: **Current**

Page 1 of 4

Date of Issue: **2019-01-24**

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

Equipment: **VZ... series blanking elements; DK... series drain plugs, VK... series breather plugs;
adapters: AV... series adapters, NV... series nipples and bushings, RZ... and TS... series
fitting joints**

Optional accessory:

Type of Protection: **flameproof enclosure d, increased safety e, type of protection n, protection by enclosure t**

Marking:

Ex db IIC Gb

Ex db IIB Gb

Ex eb IIC Gb

Ex nR IIC Gc

Ex tb IIIC Db

IP66/IP67

Approved for issue on behalf of the IECEx
Certification Body:

Alexander Zalogin

Position:

Head of CB 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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Page 2 of 4

Manufacturer: "ZAVOD GORELTEX" Co. Ltd.

193149, Novosaratovka township area, liter A, Vsevolzhsky 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 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 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 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	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:

[RU/CCVE/ExTR18.0013/00](#)

Quality Assessment Report:

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

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



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Certificate No: IECEx CCVE 18.0014X

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Date of Issue: 2019-01-24

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

VZ... series blanking elements are intended for closing pipes and unused entries.

DK... series drain plugs, VK... series breather plugs are intended for condensate removal, release of gas or correction of atmospheric pressure differential. DKUV drain plug is installed vertically on the bottom of the enclosure. VKU breather plugs shall be oriented vertically and shall be installed on the top of the enclosure.

AV... series adapters are intended for connection of equipment, pipes and entries of various diameters and various types of thread, as well as for adapting female thread to male and vice versa. For AV... series adapters encapsulation with compound is permitted. In this case AV... series adapters may be used for separation of gas mixture during its passage through conduit from one part of electrical equipment to another, as well as for separation of internal volume of the explosion-proof enclosure and the internal space of electrical conduit.

NV... series nipples and bushings are intended for coupling of equipment: NVN nipples – for coupling of equipment with female thread, NVV bushings – for coupling of equipment with male thread. For NV... series nipples and bushings encapsulation with compound is permitted. In this case NV... series nipples and bushings may be used for separation of gas mixture during its passage through conduit from one part of electrical equipment to another, as well as for separation of internal volume of the explosion-proof enclosure and the internal space of electrical conduit.

RZ... series fitting joints are intended for separation of gas mixture during its passage through conduit from one part of electrical equipment to another, as well as for separation of internal volume of the explosion-proof enclosure and the internal space of electrical conduit. For RZ... series fitting joints encapsulation with compound is permitted.

TS... series fitting joints are intended for conduit entry. TSVN... fitting joints have male-female thread, TSNN... fitting joints have male-male thread, TSVV... fitting joints have female-female thread.

The range of available threads of components and possible materials of construction are given in Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

British Standard Pipe Parallel thread (G) is not applicable to explosion protection type "flameproof enclosures "d".



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Page 4 of 4

Additional information:

Annex:

[Annex_18.0014X_2019.pdf](#)

КОПИЯ ДЛЯ КАТАЛОГА



Technical characteristics

Type of product	Materials	Ex-marking	Degree of protection (IEC 60529)	Range of available threads	
				Metric	NPT, G
VZN...	- aluminum; - stainless steel; - galvanized steel;	Ex db IIC Gb Ex eb IIC Gb Ex nR IIC Gc Ex tb IIIC Db	IP66/IP67	M12 ÷ M100	¼" ÷ 4"
VZV...	- brass; - nickel-plated brass			M20 ÷ M100	½" ÷ 4"
DKUV...	- stainless steel; - galvanized steel; - brass; - nickel-plated brass	Ex db IIC Gb Ex tb IIIC Db		M16 ÷ M20	3/8" ÷ ½"
DKUE...	- aluminum; - stainless steel; - galvanized steel; - brass; - nickel-plated brass	Ex eb IIC Gb Ex tb IIIC Db	IP66	M20	½"
VKU...	- stainless steel; - galvanized steel; - brass; - nickel-plated brass	Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db		M16 ÷ M20	3/8" ÷ ½"
AV...	- aluminum; - stainless steel; - galvanized steel; - brass; - nickel-plated brass	Ex db IIC Gb Ex eb IIC Gb Ex nR IIC Gc Ex tb IIIC Db	IP66/IP67	M12 ÷ M90	¼" ÷ 3"

NVN... NVV...	- aluminum; - stainless steel; - galvanized steel; - brass; - nickel-plated brass	Ex db IIC Gb Ex eb IIC Gb Ex nR IIC Gc Ex tb IIIC Db	IP66/IP67	M12 ÷ M100	¼" ÷ 4"
RZV...	- aluminum;			M20 ÷ M100	½" ÷ 4"
RZG...	- stainless steel			M20 ÷ M100	½" ÷ 4"
TSVNA... TSVVA... TSNNA...	- aluminum; - stainless steel; - galvanized steel; - brass; - nickel-plated brass	Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db	IP66/IP67	M20 ÷ M100	½" ÷ 4"
TSVN... TSVV... TSNN...	- aluminum; - stainless steel; - galvanized steel; - brass; - nickel-plated brass	Ex db IIB Gb Ex eb IIC Gb Ex tb IIIC Db	IP66/IP67	M20 ÷ M100	½" ÷ 4"

Service temperature, T_s - 60 °C ... + 130 °C