

[1] **EU-TYPE EXAMINATION CERTIFICATE**

[2] Equipment or protective system intended for use in potentially explosive atmospheres – Directive 2014/34/EU

[3] EU-type examination certificate Number: **CETS 22 ATEX 008 X** Issue:0

[4] Product: **Explosion-proof cable glands KV... series**

[5] Manufacturer: **LIMITED LIABILITY COMPANY "Company SMD"**

[6] Address: **Apartment 18, building 76, Lenin street, Togliatti city, Samara region, 445009**

[7] This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] The Certification body SIA «CE-Test», notified body number 2861 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential Evaluation report number 008/2022 from 03.02.2022.

[9] Compliance with Essential Health and Safety Requirements has been assured by compliance with: EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015/A1:2018, EN 60079-31:2014

[10] If the sign «X» is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate

[11] This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

⊗ II 2 GD Ex db IIC Gb or Ex eb IIC Gb or Ex tb IIIC Db or

⊗ IM 2 Ex db IMb

Date of Certificate: 11.02.2022

Responsible person: Ing. Pavlo Khorunzhyy

Head of certification body





[13] SCHEDULE

[14] EU-TYPE EXAMINATION CERTIFICATE: **CETS 22 ATEX 008 X** Issue: 0

[15] Description of Product

KV series cable glands has case of stainless steel or nickel-plated brass, inside which there is a wedge-shaped sealing ring, clamped with a compression nut. By using a plastic washer between the O-ring and the compression nut, cutting through of the elastic material is prevented. The housing, sealing ring, and nut have coaxial holes that allow the cable to be connected through them. The pressure nut on the outer side of the inner hole has a chamfer, which prevents damage to the insulation. The sealing washer provides reliable sealing of the case. The threaded connection housing-cable entry is secured by using a lock nut.

Table 1 - Technical characteristics of KV... series cable glande.

Name of indicator, unit of measurement	Value
The degree of protection of the shell in accordance with IEC 60529:2013	IP67
Thread parameters	
Metric	M16 – M100
Pipe conical	NPT 3/8" – NPT 3 1/2",
Pipe according	G3/8" – G3 1/2"
Ambient temperature range, °C	from - 60°C to + 190°C

For a more detailed description of the design, please refer to the relevant instruction manual.

[16] Test Report

The examination and test results are recorded in confidential Evaluation Report number 008/2022 from 03.02.2022

[17] Specific conditions of use

- The cable glandes KV... series are only suitable for fixed installations.
- Cables must be effectively clamped from pulling and twisting.
- The cable glands are provided with a sealing ring with an axial sealing height of at least 5 mm. With reference to the clearance groove, the end-user should ensure that at least five complete turns of the connector clearance groove are made. In order to guarantee a screw depth of 8 mm, the enclosure should have a wall thickness of min. 10 mm; if <10 mm, then if necessary, use a washer when cable entries are attached to the pressure-resistant enclosure.
- In the case of NPT connecting threads, the end-user must ensure that the necessary IP protection is guaranteed; this can be done using a suitable thread sealing agent.

[18] Essential health and safety requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information: None.

Certificate without signature are void. This certificate may only be reproduced in its entirety and without any change, schedule included.



[19] Drawings and Documents

The documents are listed in the Evaluation report number 008/2022 from 03.02.2022

Title Technical Documents	Decimal number	Date
Explosion-proof cable glandes Operation Manual	SMD 305331 359 000RE	2021
Drawing of KV MXXXX KB NPTXXX series	SMD 344995 154 000 BO	2021
Drawing of KV MXXX, KV MXXGKXX, KV NPTXXX, KV NPTXXGKXX series	SMD 305331 530 000 BO	2021
Drawing of KV MXXTB, KV MXXGKXTB, KV NPTXXTB, KV NPTXXGKXTB series	SMD 305331 531 000 BO	2021
Drawing of KV MXXTN, KV MXXGKXTN, KV NPTXXTN, KV NPTXXGKXTN series	SMD 305331 532 000 BO	2021
Drawing of KV MXXKM, KV MXXGKXKM, KV NPTXXKM, KV NPTXXGKXKM series	SMD 305331 533 000 BO	2021
Drawing of KV MXXB1, KV MXXB2, KV MXXB3, KV NPTXXB1, KV NPTXXB2, KV NPTXXB3, KV MXXGK1B2, KV NPTXXGK1B2 series	SMD 305331 534 000 BO	2021
Drawing of KV MXXB1KM, KV MXXB2KM, KV MXXB3KM, KV NPTXXB1KM, KV NPTXXB2KM, KV NPTXXB3KM series	SMD 305331 535 000 BO	2021
Drawing of KV MXXB1TB, KV MXXB2TB, KV MXXB3TB, KV NPTXXB1TB, KV NPTXXB2TB, KV NPTXXB3TB series	SMD 305331 536 000 BO	2021
Drawing of KV MXXB1TN, KV MXXB2TN, KV MXXB3TN, KV NPTXXB1TN, KV NPTXXB2TN, KV NPTXXB3TN series	SMD 305331 537 000 BO	2021