



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 03 ATEX 1156 X

Issue: 1

(4) Product: Cable gland type Ex-KVM - ** -* -** (-**)

(5) Manufacturer: WISKA Hoppmann GmbH

(6) Address: Kisdorfer Weg 28, 24568 Kaltenkirchen, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the 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 the confidential Test Report PTB Ex 22-11182.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, 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 the Specific Conditions of 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 product shall include the following:

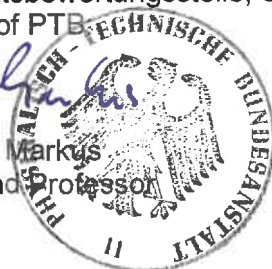
 **II 2 G Ex eb IIC Gb**

 **II 2 D Ex tb IIIC Db**

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB

Braunschweig, January 18, 2022


Dr.-Ing. D. Markus
Direktor und Professor



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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 03 ATEX 1156 X, Issue: 011**

(15) Description of Product

The cable gland, type Ex-KVM-**-*-**(-**) is made from brass or stainless steel.

It is used for permanently wired cables entering electrical equipment in the type of protection Increased Safety "eb" and Protection by enclosure "tb".

It may optionally come as version "W" or "Z" in compliance with DIN 89280.

The cable entry consists of a threaded bush (short and long type), adapter connections with metric connection thread, sealing ring, two compression rings, earthing elements for version "Z", blind plug of type BS**, and connection thread sealing ring.

Technical data

Connection thread size	Metric, M18 to M32
Minimum wall thickness of housing	Threaded hole, metal housing: 3 mm Threaded hole, plastic housing: 5 mm Through-hole, metal housing: 1 mm Through-hole, plastic housing: 2 mm
Suited for cable diameters	Subject to nominal size, between 7 mm and 20.5 mm
Suited for equipment of device group IIC with the mechanical risk level	high
Operating temperature range	-40 °C to +120 °C
Ingress protection	IP66 / IP67 according to EN 60529

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 03 ATEX 1156 X, Issue: 1

Nomenclature

EX	-	KV	M	-	**	-	*	-	**	(-**)
1	2	3	4	5	6	7	8	9	10	11

1 = code for the application area

Ex = explosionproof area

2 = hyphen

3 = code for the product type

KV = cable gland (Kabelverschraubung)

4 = type of connection thread

M = metric connection thread according to ISO 965

5 = hyphen

6 = nominal size of the connection thread, for example:

18 = metric thread M18x1,5

20 = metric thread M20x1,5

24 = metric thread M24x1,5

25 = metric thread M25x1,5

30 = metric thread M30x2

32 = metric thread M32x1,5

7 = hyphen

8 = declaration of the configuration

W = configuration with sealing ring only (without EMV-contact cage)

Z = configuration with sealing ring and EMV-contact cage

9 = hyphen

10 = nominal size of the sealing ring

08 = sealing ring with inner diameter 8 mm (sealing range 7,0mm – 8,5mm), for KV size M18, M20, M24, M25

10 = sealing ring with inner diameter 10mm (sealing range 8,0mm – 10,5mm), for KV size M18, M20, M24, M25

12 = sealing ring with inner diameter 12mm (sealing range 10,0mm – 12,5mm), for KV size M24, M25

14 = sealing ring with inner diameter 14mm (sealing range 12,0mm – 14,5mm), for KV size M24, M25

16 = sealing ring with inner diameter 16mm (sealing range 14,0mm – 16,5mm), for KV size M24, M25

17 = sealing ring with inner diameter 17mm (sealing range 16,0mm – 17,5mm), for KV size e M24, M25

18 = sealing ring with inner diameter 18mm (sealing range 16,0mm – 18,5mm), for KV size M30, M32

20 = sealing ring with inner diameter 20mm (sealing range 18,0mm – 20,5mm), for KV size M30, M32

11 = Declaration of material

Without declaration = standard product, brass, blank

(2.0401/ CuZn39Pb3 / CW614N / CZ 121)

-Ni = brass, nickel plated

-Cr = brass, chromium plated

-A2 = stainless steel 1.4305 (X8CrNiS 18 9 / AISI 303 / 303 S 22)

-A4 = stainless steel 1.4435 (X2CrNiMo 18 14 3 / AISI316L / 316 S 14)

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 03 ATEX 1156 X, Issue: 1

Changes with respect to previous editions

- 1) Company name is changed to WISKA Hoppmann GmbH.
- 2) No technical changes. Updated to current editions of EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018, EN 60079-31:2014.
- 3) Marking is changed to:
II 2 G Ex eb IIC Gb
II 2 D Ex tb IIIC Db

(16) Test Report PTB Ex 22-11182

(17) Specific conditions of use

- 1) Only permanently wired cables shall be entered. The user shall provide for the required strain relief.
- 2) Degree of protection will be safeguarded only when sealing and cable entry fittings are properly fitted. The manufacturer's instructions must be followed.

(18) Essential health and safety requirements


Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, January 18, 2022

On behalf of PTB:


Dr.-Ing. D. Markus
Direktor und Professor

