



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX PTB 13.0034X**

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Certificate history:

Status: **Current**

Issue No: 4

Issue 3 (2018-05-02)

Issue 2 (2017-05-05)

Issue 1 (2015-09-04)

Issue 0 (2013-10-25)

Date of Issue: **2022-05-10**

Applicant: **WISKA Hoppmann GmbH**  
Kisdorfer Weg 28  
24568 Kaltenkirchen  
Germany

Equipment: **Cable gland type \*SKE/1(S)(-L)-\*(-RDE) \*\* (LT) (MFD \*\*/\*\*\*\*(-\*\*/\*\*\*\*))**

Optional accessory:

Type of Protection: **"eb", "tb"**

Marking: **Ex eb IIC Gb**  
**Ex tb III C Db**

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr.-Ing. Detlev Markus**

Position:

**Head of Department "Explosion Protection in Energy  
Technology"**

Signature:  
(for printed version)

Date:  
(for printed version)

09.15.22

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Certificate issued by:

**Physikalisch-Technische Bundesanstalt (PTB)**  
Bundesallee 100  
38116 Braunschweig  
Germany



Physikalisch-Technische Bundesanstalt  
Braunschweig und Berlin



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Manufacturing  
locations: **WISKA Hoppmann GmbH**  
Kisdorfer Weg 28  
24568 Kaltenkirchen  
Germany

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with 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/PTB/ExTR13.0049/04**

Quality Assessment Report:

**DE/PTB/QAR11.0006/06**



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Description

The cable gland type \*SKE/1(S)(-L)-\*(-RDE) \*\* (LT) (\*FD \*\*/\*\*\*(-\*\*/\*\*\*\*)) is made from polyamide. It is used for permanently wired cables entering electrical equipment of the types of protection Increased Safety "eb" and Protection by Enclosure "tb". The cable gland can be installed in enclosures with threaded holes and through-holes. The cable entry consists of an adapter with connection thread, a cap nut, an elastomeric sealing insert, and a gasket at the connection thread. Accessories are a multiple sealing insert, a sealing insert for special shapes, a blind plug type BS\*\* and a nut with anti-kink-spiral.

Technical data and Nomenclature see Annex.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Only permanently wired cables may be entered. The user shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.
2. Degree of protection is ensured only if the seals and cable entries are properly fitted. The manufacturer's instructions must be followed.
3. The ambient temperature range of the cable glands type ESKE/1 (S)(-L)(-\*)(-RDE) 12 and ESKE/1 (S)(-L)(-\*)(-RDE) 12 LT is restricted to +15 °C up to +65 °C.
4. Types suitable for a "low" risk of mechanical danger shall be mounted in such a way that they are mechanically protected against impact force.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Updated to current editions of IEC 60079-0 (Ed. 7), IEC 60079-7 (Ed. 5.1), IEC 60079-31 (Ed. 2).

**Annex:**

[COCA130034X-04.pdf](#)



Applicant: WISKA Hoppmann GmbH  
Kisdorfer Weg 28  
24568 Kaltenkirchen  
Germany

Electrical Apparatus: Cable gland type  
\*SKE/1(S)(-L)-\*(-RDE) \*\* (LT) (MFD \*\*/\*\*\*(-\*\*/\*\*\*))

### Description

The cable gland type \*SKE/1(S)(-L)-\*(-RDE) \*\* (LT) (\*FD \*\*/\*\*\*(-\*\*/\*\*\*)) is made from polyamide. It is used for permanently wired cables entering electrical equipment of the types of protection Increased Safety "eb" and Protection by Enclosure "tb". The cable gland can be installed in enclosures with threaded holes and through-holes. The cable entry consists of an adapter with connection thread, a cap nut, an elastomeric sealing insert, and a gasket at the connection thread. Accessories are a multiple sealing insert, a sealing insert for special shapes, a blind plug type BS\*\* and a nut with anti-kink-spiral.

### Technical data

|                                                     |                                                                                                                                                        |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection thread size                              | Metric, EN 60423: M12x1.5 to M63x1.5                                                                                                                   |
| Connection thread length                            | 9 mm to 18 mm                                                                                                                                          |
| Minimum wall thickness of housing                   | Threaded hole, metal housing: 3 mm<br>Threaded hole, plastic housing: 3 mm<br>Through-hole, metal housing: 1 mm<br>Through-hole, plastic housing: 2 mm |
| Suited for cable diameters                          | Subject to nominal size, between 1 mm and 48 mm                                                                                                        |
| Suited for equipment with the mechanical risk level | Depends on the size and the ambient temperature.<br>See table below                                                                                    |
| Ambient temperature range                           | Normal type max. -40 °C to +75 °C<br>LT type max. -60 °C to +75 °C<br>See table below                                                                  |
| Ingress protection                                  | IP66 / IP68 (5 bar, 30 min) according to EN 60529                                                                                                      |

| Sealing range / mm | Type of cable gland        | Reduced sealing range / mm (-RDE) | Type of cable gland            | Torques / Nm |         |
|--------------------|----------------------------|-----------------------------------|--------------------------------|--------------|---------|
|                    |                            |                                   |                                | Adapter      | Cap nut |
| 3 - 6              | ESKE/1 (S)(-L)(-*) 12 (LT) | 1 - 3                             | ESKE/1 (S)(-L)(-*)-RDE 12 (LT) | 2.0          | 2.0     |
| 4.5 - 9            | ESKE/1 (S)(-L)(-*) 16 (LT) | 2 - 6                             | ESKE/1 (S)(-L)(-*)-RDE 16 (LT) | 1.8          | 1.3     |
| 7 - 13             | ESKE/1 (S)(-L)(-*) 20 (LT) | 4 - 8                             | ESKE/1 (S)(-L)(-*)-RDE 20 (LT) | 2.3          | 1.5     |
| 10 - 17            | ESKE/1 (S)(-L)(-*) 25 (LT) | 7 - 12                            | ESKE/1 (S)(-L)(-*)-RDE 25 (LT) | 3.0          | 2.0     |
| 13 - 21            | ESKE/1 (S)(-L)(-*) 32 (LT) | 9 - 14                            | ESKE/1 (S)(-L)(-*)-RDE 32 (LT) | 4.5          | 3.0     |
| 17 - 28            | ESKE/1 (-L)(-*) 40 (LT)    | 12 - 20                           | ESKE/1 (-L)(-*)-RDE 40 (LT)    | 11.0         | 10.0    |
| 23 - 35            | ESKE/1 (-L)(-*) 50 (LT)    | 16 - 25                           | ESKE/1 (-L)(-*)-RDE 50 (LT)    | 13.0         | 12.0    |
| 34 - 48            | ESKE/1 (-L)(-*) 63 (LT)    | 28 - 38                           | ESKE/1 (-L)(-*)-RDE 63 (LT)    | 17.0         | 16.0    |



| Type, Normal Version        | Ambient temperature | Risk of mechanical danger |
|-----------------------------|---------------------|---------------------------|
| ESKE/1 (S)(-L)(-*)(-RDE) 12 | +15 °C to +65 °C    | low                       |
| ESKE/1 (S)(-L)(-*)(-RDE) 16 | -40 °C to +75 °C    | low                       |
| ESKE/1 (S)(-L)(-*)(-RDE) 20 | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 25 | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 32 | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 40 | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 50 | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 63 | -40 °C to +75 °C    | high                      |

| Type, LT Version               | Ambient temperature | Risk of mechanical danger |
|--------------------------------|---------------------|---------------------------|
| ESKE/1 (S)(-L)(-*)(-RDE) 12 LT | +15 °C to +65 °C    | low                       |
| ESKE/1 (S)(-L)(-*)(-RDE) 16 LT | -40 °C to +75 °C    | low                       |
| ESKE/1 (S)(-L)(-*)(-RDE) 20 LT | -60 °C to +75 °C    | low                       |
|                                | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 25 LT | -60 °C to +75 °C    | low                       |
|                                | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 32 LT | -60 °C to +75 °C    | low                       |
|                                | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 40 LT | -60 °C to +75 °C    | low                       |
|                                | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 50 LT | -60 °C to +75 °C    | low                       |
|                                | -40 °C to +75 °C    | high                      |
| ESKE/1 (S)(-L)(-*)(-RDE) 63 LT | -60 °C to +75 °C    | low                       |
|                                | -40 °C to +75 °C    | high                      |

## Nomenclature

| * | S | K | E/1 | (S) | (-L) | (-*) | (-RDE) |   | ** |    | (LT) |    | (MFD) |   | ** | / | *** | (-** | / | ***)) |
|---|---|---|-----|-----|------|------|--------|---|----|----|------|----|-------|---|----|---|-----|------|---|-------|
| 1 | 2 | 3 | 4   | 5   | 6    | 7    | 8      | 9 | 10 | 11 | 12   | 13 | 14    |   |    |   |     |      |   |       |
|   |   |   |     |     |      |      |        |   |    |    |      |    | A     | B | C  | D | E   | F    | G | H     |

- 1 = Connection thread  
E = Metric thread according to EN 60423  
2 = Cable gland system  
S = WISKA SPRINT system  
3 = Product  
K = Cable gland  
4 = Field of application  
E/1 = Explosion protected area, 1<sup>st</sup> revision of this type  
5 = Optional designation of cable protection  
S = Cap nut with anti-kink spiral  
6 = Optional designation of connection thread length  
-L = long connection thread (only for thread E)



- 7 = Type of protection  
    -e = increased safety  
    -i = intrinsic safety (designated by a blue cap nut)
- 8 = Optional designation of additional reduced sealing insert  
    -RDE = reducer sealing insert
- 9 = Space
- 10 = Nominal size of connection thread, for example  
    16 = Metric thread M16x1.5  
    40 = Metric thread M40x1.5
- 11 = Space
- 12 = Optional designation of service temperature  
    LT = Low temperature (-60 °C)
- 13 = Space
- 14 = Optional designation of sealing insert  
    A = MFD (multiple sealing insert)  
    B = Space  
    C = Number of holes  
    D = Forward slash  
    E = Diameter of holes in 1/10 mm, for example  
        063 = 6.3 mm diameter  
    F = Optional second number of holes (second diameter)  
    G = Forward slash  
    H = Optional second diameter of holes

NOTE: The sealing range of the multiple sealing inserts is between the given diameter of the hole and this diameter -10 % (max. 1 mm less than the given diameter).

#### Specific Conditions of Use

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4. Types suitable for a "low" risk of mechanical danger shall be mounted in such a way that they are mechanically protected against impact force.



Cross Reference List  
NETC

| WISKA-No. / Typecode |                       | Typecode FESTO         | Part No. FESTO | Zertifikate                             |
|----------------------|-----------------------|------------------------|----------------|-----------------------------------------|
| 10111235             | ESKE/1-i-RDE 20 FESTO | NETC-M20-PBU-T26-EX4-E | 8151587        | PTB 13 ATEX 1015X<br>IECEX PTB 14.0034X |
| 10111236             | ESKE/1-e-RDE 20 FESTO | NETC-M20-PBK-T26-EX4-E | 8151588        | PTB 13 ATEX 1015X<br>IECEX PTB 14.0034X |