Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(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 13 ATEX 1015 X **Issue: 3**

(4) Product: Cable gland Typ *SKE/1(S)(-L)-*(-RDE) ** (LT) (MFD **/***(-**/***))

(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 22-11172.

(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:

Ex II 2 G Ex eb IIC Gb

Ex II 2 D Ex tb IIIC Db

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, May 10, 2022

Dr.-Ing. D. Markus
Direktor und Professor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT

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(13) # SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 13 ATEX 1015 X, Issue: 3**

(15) Description of Product

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 Threaded hole, plastic housing: 3 mm Through-hole, metal housing: 1 mm 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. See table below
Ambient temperature range	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	
				Adap-ter	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

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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 −40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 25 LT	−60 °C to +75 °C −40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 32 LT	−60 °C to +75 °C −40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 40 LT	−60 °C to +75 °C −40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 50 LT	−60 °C to +75 °C −40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 63 LT	−60 °C to +75 °C −40 °C to +75 °C	low 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, 1st 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).

Changes with respect to previous editions

Updated to current editions of EN IEC 60079-0:2018, EN 60079-7:2015/A1:2018, EN 60079-31:2014.

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(16) Test Report PTB Ex22-11172

(17) Specific conditions of use

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.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, May 10, 2022

Dr.-Ing. D. Markus
Direktor und Professor