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 09 ATEX 1049 X **Issue: 2**

(4) Product: Kabel- und Leitungseinführung Type **SKEZ(-L)(-**) **(-**) (LT) (*****)

(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 22-11170.

(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, May 10, 2022

Dr.-Ing. D. Markus
Direktor und Professor

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(13) # SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 09 ATEX 1049 X, Issue: 2**

(15) Description of Product

The cable gland type **SKEZ(-L)(-**) **(-**) (LT) (*****) is made from brass, stainless steel or polyamide. It is used for cables entering electrical equipment in the type of protection Increased Safety "eb" or Protection by Enclosure "tb". The cable entry is installed in enclosures with threaded holes and through-holes. The cable gland consists of an adapter with connection thread; polyamide sealing element, elastomeric sealing ring, cap nut with external clamping brackets and connection thread sealing rings. Accessories used are a blind plug of type BS** and a lock nut. For using in EMC applications the cable glands can be delivered with different EMC inserts.

Technical data, material brass or stainless steel

Connection thread size	Metric, EN 60423: M12x1.5 to M63x1.5 Metric, DIN 89280: M16x1.5 to M56x2 NPT, ANSI 1.20.1: NPT 3/8" up to NPT 2" Pg, DIN 40430: Pg 7 to Pg 48
Connection thread length	5 mm to 15 mm
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 6.5 mm and 48 mm
Suited for equipment of device group II with the mechanical risk level	High
Operating temperature range	Normal type −40 °C to +75 °C LT type −60 °C to +75 °C
Ingress protection	IP66 / IP68 (5bar, 30min) according to EN 60529

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Technical data, material polyamide

Connection thread size	Metric, EN 60423 M20x1.5 M25x1.5 M32x1.5
Connection thread length	10 mm, 12 mm and 15 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 8 mm and 21 mm
Suited for equipment of device group II with the mechanical risk level	Low
Operating temperature range	−20 °C to +75 °C
Ingress protection	IP66 / IP68 (5bar, 30min) according to EN 60529

Nomenclature

*	*	S	K	E	Z	(-L)	(-**)		**	(-**)		(LT)		(*****)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

1 = Connection thread type:
- E = metric connection thread according to EN 60423
- N = NPT connection thread according to ANSI B1.20.1
- P = Pg connection thread according to DIN 40430
- M = metric connection thread according to DIN 89280

2 = Material:
- Not specified = Plastic (only with position 1 = E)
- M = Brass
- S = Stainless steel

3 = Name of the cable gland system:
- S = WISKA SPRINT System

4 = Name of the product:
- K = Cable gland

5 = Name of the area of application:
- E = Use in potentially explosive atmospheres

6 = Indication of external strain relief:
- Z = Cap nut with external strain relief device

7 = Optional specification of a special connection thread length:
- -L = long connection thread (only for threads E and P)

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8 = Optional specification of the surface treatment or the material specification:
- -Ni = Brass, nickel-plated (standard for threads E, N and P)
- -Cr = Brass, chrome-plated
- -Bl = Brass, blank (standard for thread M)
- -4 = Stainless steel V4A
- -e = black cap nut for plastic for ignition protection type "e"
- -i = blue hat nut for plastic for ignition protection type "i"

9 = Space

10 = Nominal size of the connection thread, e.g.:
- 16 = metric thread M16x1,5
- 40 = metric thread M40x1,5
- 1/2 = NPT thread 1/2"
- 1 1/4 = NPT thread 1 1/4"
- 13,5 = Pg thread Pg 13,5
- etc.

11 = Specification of the sealing range of the cable glands with Pg thread and the expansion glands (basis is the standard sealing range of the metric glands), not required for cable glands "Normal"-E, N and M, e.g.:
- -20 = Sealing range of the M20 cable gland
- -40 = Sealing range of the M40 cable gland
- and so on.

12 = Space

13 = Optional specification of a special operating temperature:
- LT = Low-temperature use (−60°C)

14 = Space

15 = Optional specification of EMC equipment (only for metallic cable glands):
- EMV-Z = Equipment with earthing cones
- EMV-S = Equipped with spring contact cage made of stainless steel
- EMV-C = Equipped with spring contact cage made of copper-beryllium

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Sealing range and torque, material brass or stainless steel

Sealing range / mm	Type of cable gland	Torque Cap nut and connection thread	Torque Screws of clamping brackets
6.5 to 10	E*SKEZ(-L) 16 (LT) (*****) E*SKEZ(-L) 12-16 (LT) (*****) N*SKEZ 3/8 (LT) (*****) P*SKEZ(-L) 7-16 (LT) (*****) P*SKEZ(-L) 9-16 (LT) (*****) P*SKEZ(-L) 11-16 (LT) (*****) M*SKEZ 16 (LT) (*****)	4 Nm	0.3 Nm
8 to 13	E*SKEZ(-L) 20 (LT) (*****) E*SKEZ(-L) 16-20 (LT) (*****) N*SKEZ 1/2 (LT) (*****) P*SKEZ(-L) 11-20 (LT) (*****) P*SKEZ(-L) 13,5-20 (LT) (*****) P*SKEZ(-L) 16-20 (LT) (*****) M*SKEZ 18 (LT) (*****)	8 Nm	0.4 Nm
10 to 17	E*SKEZ(-L) 25 (LT) (*****) E*SKEZ(-L) 20-25 (LT) (*****) N*SKEZ 3/4 (LT) (*****) P*SKEZ(-L) 13,5-25 (LT) (*****) P*SKEZ(-L) 16-25 (LT) (*****) P*SKEZ(-L) 21-25 (LT) (*****) M*SKEZ 24 (LT) (*****)	10 Nm	0.4 Nm
16 to 21	E*SKEZ(-L) 32 (LT) (*****) E*SKEZ(-L) 25-32 (LT) (*****) N*SKEZ 1 (LT) (*****) P*SKEZ(-L) 21-32 (LT) (*****) M*SKEZ 30 (LT) (*****)	20 Nm	0.5 Nm
18 to 28	E*SKEZ(-L) 40 (LT) (*****) E*SKEZ(-L) 32-40 (LT) (*****) N*SKEZ 1 1/4 (LT) (*****) P*SKEZ(-L) 29-40 (LT) (*****) M*SKEZ 36 (LT) (*****)	20 Nm	0.5 Nm
22 to 35	E*SKEZ(-L) 50 (LT) (*****) E*SKEZ(-L) 40-50 (LT) (*****) N*SKEZ 1 1/2 (LT) (*****) P*SKEZ(-L) 36-50 (LT) (*****) P*SKEZ(-L) 42-50 (LT) (*****) P*SKEZ(-L) 21-25 (LT) (*****) M*SKEZ 45 (LT) (*****)	30 Nm	0.6 Nm
34 to 48	E*SKEZ(-L) 63 (LT) (*****) E*SKEZ(-L) 50-63 (LT) (*****) N*SKEZ 2 (LT) (*****) P*SKEZ(-L) 48-63 (LT) (*****) M*SKEZ 56 (LT) (*****)	40 Nm	0.6 Nm

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Sealing range and torque, material polyamide

Sealing range / mm	Type of cable gland	Torque Cap nut and connection thread	Torque Screws of clamping brackets
8 to 13	ESKEZ(-L)(-**) 20	Cap nut 1.5 Nm Con. thread. 2.3 Nm	0.4 Nm
10 to 17	ESKEZ(-L)(-**) 25	Cap nut 2.0 Nm Con. thread. 3.0 Nm	0.4 Nm
16 to 21	ESKEZ(-L)(-**) 32	Cap nut 3.0 Nm Con. thread. 4.5 Nm	0.5 Nm

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.

(16) Test Report PTB Ex22-11170

(17) Specific conditions of use

1. Degree of protection is ensured only if the seals and cable entries are properly fitted. The manufacturer's instructions must be followed.
2. 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