



(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 04 ATEX 1112 X

Issue: 2

(4) Product: Cable Gland Type *MSKE(S)(-L)(-**)(-RDE) **(-**) (LT)
(*FD **/**(-**/**)) (*****)

(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 21-10103.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN 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 4, 2021

D. Mark

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 04 ATEX 1112 X, Issue: 2**

(15) Description of Product

The cable gland Type *MSKE(S)(-L)(-**-RDE) **(-**) (LT) (*FD **/***)(-**/***)(*****) is made from brass. It is used for entering permanently wired cables into 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 M75x1.5 Metric, DIN 89280: M16x1,5 to M72x2 NPT, ANSI 1.20.1: NPT ¼" up to NPT 2 ½") 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 1 mm and 62 mm
Suited for equipment of device group IIC with the mechanical risk level	high
Operating temperature range	Normal version -40 °C to +75 °C LT version -60 °C to +75 °C Version with SFD PBK -40 °C to +60 °C
Ingress protection	IP66 / IP68 (5 bar, 30 min)

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Sealing range [mm]	Type of cable gland	Reduced sealing range [mm] (-RDE)	Type of cable gland	Test torques [Nm]
4 ... 7	EMSKE(S)(-L) 12 (LT) (*****) PMSKE(S)(-L) 7-12 (LT) (*****) NMSKE(S) 1/4 (LT) (*****)	1 ... 3	EMSKE(S)(-L)-RDE 12 (LT) (*****) PMSKE(S)(-L)-RDE 7-12 (LT) (*****) NMSKE(S)-RDE 1/4 (LT) (*****)	4
5 ... 10	EMSKE(S)(-L) 16 (LT) (*****) EMSKE(S)(-L) 12-16 (LT) (*****) NMSKE(S) 3/8 (LT) (*****) PMSKE(S)(-L) 7-16 (LT) (*****) PMSKE(S)(-L) 9-16 (LT) (*****) PMSKE(S)(-L) 11-16 (LT) (*****) MMSKE(S) 16 (LT) (*****)	2 ... 6	EMSKE(S)(-L)-RDE 16 (LT) (*****) EMSKE(S)(-L)-RDE 12-16 (LT) (*****) NMSKE(S)-RDE 3/8 (LT) (*****) PMSKE(S)(-L)-RDE 7-16 (LT) (*****) PMSKE(S)(-L)-RDE 9-16 (LT) (*****) PMSKE(S)(-L)-RDE 11-16 (LT) (*****) MMSKE(S)-RDE 16 (LT) (*****)	4
6 ... 13	EMSKE(S)(-L) 20 (LT) (*****) EMSKE(S)(-L) 16-20 (LT) (*****) NMSKE(S) 1/2 (LT) (*****) PMSKE(S)(-L) 11-20 (LT) (*****) PMSKE(S)(-L) 13,5-20 (LT) (*****) PMSKE(S)(-L) 16-20 (LT) (*****) MMSKE(S) 18 (LT) (*****)	4 ... 8	EMSKE(S)(-L)-RDE 20 (LT) (*****) EMSKE(S)(-L)-RDE 16-20 (LT) (*****) NMSKE(S)-RDE 1/2 (LT) (*****) PMSKE(S)(-L)-RDE 11-20 (LT) (*****) PMSKE(S)(-L)-RDE 13,5-20 (LT) (*****) PMSKE(S)(-L)-RDE 16-20 (LT) (*****) MMSKE(S)-RDE 18 (LT) (*****)	8
10 ... 17	EMSKE(S)(-L) 25 (LT) (*****) EMSKE(S)(-L) 20-25 (LT) (*****) NMSKE(S) 3/4 (LT) (*****) PMSKE(S)(-L) 13,5-25 (LT) (*****) PMSKE(S)(-L) 16-25 (LT) (*****) PMSKE(S)(-L) 21-25 (LT) (*****) MMSKE(S) 24 (LT) (*****)	7 ... 12	EMSKE(S)(-L)-RDE 25 (LT) (*****) EMSKE(S)(-L)-RDE 20-25 (LT) (*****) NMSKE(S)-RDE 3/4 (LT) (*****) PMSKE(S)(-L)-RDE 13,5-25 (LT) (*****) PMSKE(S)(-L)-RDE 16-25 (LT) (*****) PMSKE(S)(-L)-RDE 21-25 (LT) (*****) MMSKE(S)-RDE 24 (LT) (*****)	10
13 ... 21	EMSKE(S)(-L) 32 (LT) (*****) EMSKE(S)(-L) 25-32 (LT) (*****) NMSKE(S) 1 (LT) (*****) PMSKE(S)(-L) 21-32 (LT) (*****) MMSKE(S) 30 (LT) (*****)	9 ... 14	EMSKE(S)(-L)-RDE 32 (LT) (*****) EMSKE(S)(-L)-RDE 25-32 (LT) (*****) NMSKE(S)-RDE 1 (LT) (*****) PMSKE(S)(-L)-RDE 21-32 (LT) (*****) MMSKE(S)-RDE 30 (LT) (*****)	20
16 ... 28	EMSKE(S)(-L) 40 (LT) (*****) EMSKE(S)(-L) 32-40 (LT) (*****) NMSKE(S) 1 1/4 (LT) (*****) PMSKE(S)(-L) 29-40 (LT) (*****) MMSKE(S) 36 (LT) (*****)	12 ... 20	EMSKE(S)(-L)-RDE 40 (LT) (*****) EMSKE(S)(-L)-RDE 32-40 (LT) (*****) NMSKE(S)-RDE 1 1/4 (LT) (*****) PMSKE(S)(-L)-RDE 29-40 (LT) (*****) MMSKE(S)-RDE 36 (LT) (*****)	20
21 ... 35	EMSKE(S)(-L) 50 (LT) (*****) EMSKE(S)(-L) 40-50 (LT) (*****) NMSKE(S) 1 1/2 (LT) (*****) PMSKE(S)(-L) 36-50 (LT) (*****) PMSKE(S)(-L) 42-50 (LT) (*****) MMSKE(S) 45 (LT) (*****)	16 ... 25	EMSKE(S)(-L)-RDE 50 (LT) (*****) EMSKE(S)(-L)-RDE 40-50 (LT) (*****) NMSKE(S)-RDE 1 1/2 (LT) (*****) PMSKE(S)(-L)-RDE 36-50 (LT) (*****) PMSKE(S)(-L)-RDE 42-50 (LT) (*****) MMSKE(S)-RDE 45 (LT) (*****)	30
34 ... 48	EMSKE(S)(-L) 63 (LT) (*****) EMSKE(S)(-L) 50-63 (LT) (*****) NMSKE(S) 2 (LT) (*****) PMSKE(S)(-L) 48-63 (LT) (*****) MMSKE(S) 56 (LT) (*****)	28 ... 38	EMSKE(S)(-L)-RDE 63 (LT) (*****) EMSKE(S)(-L)-RDE 50-63 (LT) (*****) NMSKE(S)-RDE 2 (LT) (*****) PMSKE(S)(-L)-RDE 48-63 (LT) (*****) MMSKE(S)-RDE 56 (LT) (*****)	40
48 ... 62	EMSKE(S)(-L) 75 (LT) (*****) EMSKE(S)(-L) 63-75 (LT) (*****) NMSKE(S) 2 1/2 (LT) (*****) MMSKE(S) 72 (LT) (*****)	---	---	50

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Nomenclature

*	M	S	K	E	(S)	(-L)	(-**)	(-RDE)		**	(-**)		LT	(*FD)	** / ***	(-**) / (***)	(****)						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			17					
															A	B	C	D	E	F	G	H	

1 = Connection thread type:

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

2 = Material:

- M = brass

3 = Designation of the cable gland system:

- S = WISKA SPRINT System

4 = Name of the product:

- K = cable gland

5 = Designation of the area of application:

- E = use in hazardous areas

6 = Optional specification of a special cable protection function:

- S = cap nut with bend protection spiral

7 = Optional specification of a special connection thread length:

- L = long connection thread (only for threads E and P)

8 = Indication of surface treatment:

- Ni = nickel-plated (standard for threads E, N and P)
- Cr = chrome-plated
- Bl = blank (standard for thread M)

9 = Optional specification of an additional reduction density insert:

- RDE = reducing insert

10 = Space character

11 = 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.

12 = Indication of the sealing range of the cable glands with Pg thread and the extension glands (basis is the standard sealing range of the metric glands), not required for cable glands "Normal"-E, N and M, e.g:

- 12 = sealing range of the M12 cable gland
- 25 = sealing range of the M25 cable gland
- and so on

13 = Space character

14 = Optional specification of a special operating temperature:

- LT = low temperature application (-60°C)

15 = Space character

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- 16 = Optional specification of equipment with multiple, special form sealing
A = MFD (multiple sealing), SFD (special form sealing)
B = Space
C = number of holes
D = Slash
E = For MFD size of the holes in 1/10mm. With SFD = special indication. Examples:
- Specification 063 for MFD = 6.3mm diameter of the hole
 - Specification PBK for SFD = hole for Preci-Bus cable
- F = Optional second number of holes (for multiple hole sizes)
G = Slash
H = Size of the holes in 1/10mm with second hole size
- 17 = Optional specification of EMC equipment (not in combination with 16):
EMV-Z = Equipped with earthing cones
EMV-S = Equipment with spring contact cage made of stainless steel
EMC-C = Equipped with spring contact cage made of copper-beryllium

The sealing range for MFD is max. the diameter specification, min. the diameter specification -10% (max. 1 mm below diameter).

Changes with respect to previous editions

Addition of a special sealing insert (SFD) for Preci-Bus cable for temperature range -40 °C to +60 °C.

(16) Test Report PTB Ex 21-10103

(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.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, May 4, 2021


Dr.-Ing. D. Markus
Direktor und Professor

