

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cable Gland**

with type designation(s)

****SKE(*) (-L)(-**)(-RDE) **(-**) (LT) (MFD**/***(-**/***))(***)**

Issued to

WISKA Hoppmann GmbH
Kaltenkirchen, Germany

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Material	Brass / Stainless Steel
Suitable for open deck	Yes
Suitable for Hazardous areas	Yes

Issued at **Hamburg** on **2019-11-21**for **DNV GL**This Certificate is valid until **2024-11-20**.DNV GL local station: **Hamburg**Approval Engineer: **Uwe Supke**

Arne Schaarmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-025535-2**
Certificate No: **TAE00002ST**
Revision No: **2**

Product description

Explosion protected metallic cable glands:

- Material: Brass
- Type designation: EMSKE Connection thread M 12, 16, 20, 25, 32, 40, 50, 63,75
MMSKE Connection thread M 16, 18, 24, 30, 36, 45, 56, 72
PMSKE Pg7, Pg9, Pg11, Pg13.5, Pg16, Pg21,Pg29, Pg36, Pg42, Pg48
NMSKE NPT ¼", 3/8", ½", ¾", 1", 1¼", 1½", 2", 2½"
- Material: Stainless Steel A2 (1.4305)
- Type designation: ESSKE Connection thread M 12, 16, 20, 25, 32, 40, 50, 63
- Material: Stainless Steel A4 (1.4404)
- Type designation: ESSKE-4 Connection thread M 12, 16, 20, 25, 32, 40, 50, 63
- Ambient temp.: -40°C to +75°C; (LT): -60°C to +75°C
- Ingress protection: IP 68 (5bar, 30min)
- Ex classification: II 2G Ex eb IIC Gb,
II 2D Ex tb IIIC Db
- Ex certificate no: PTB 04 ATEX 1112X; PTB 05 ATEX 1098X
- all types alternatively with :
 - brass; brass + nickel-plated, brass + chromium plated
 - long and short connection thread
 - earthing cones for shielded cables
 - multiple sealing inserts, special sealing inserts and blind plugs

Application/Limitation

- Manufacturer's installation description, instructions and DNV GL rules to be followed.
- Not to be used in bulkheads/decks or for penetrating boundaries of tanks.
- Suitable for open deck
- The information related to Ex certification from recognized test institution is given as information only.
- Applications where Ex certified equipment is required will in general be subject to approval case by case based on documentation as required in DNV GL rules.

Type Approval documentation

EU-Type-Examination Certificate No. PTB 04 ATEX 1112X Issue 01, dated 2017-09-15,
Assessment and Test report PTB EX 17-16048, dated 2017-09-15.

IECEX Certificate of Conformity No. IECEX PTB 13.0027X, dated 2017-09-15,
IECEX Test Report DE/PTB/ExTR13.0032/01.

EU-Type-Examination Certificate No. PTB 05 ATEX 1098X Issue01, dated 2017-07-06
Assessment and Test report PTB EX 17-16050, dated 2017-07-06

IECEX Certificate of Conformity No. IECEX PTB 13.0035X, dated 2017-07-18,
IECEX Test Report DE/PTB/ExTR13.0050/01.

Tests carried out

Applicable tests according to DNV GL Class Guideline DNVGL-CG-0339, Edition November 2016
IEC 60079-0:2011, IEC 60079-31:2013, IEC 60079-7:2015

Marking of product

The products to be marked with:


- Manufacturer
- Type designation
- Ex rating

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)



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- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE