

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)
LevelEx

Issued to

Pflitsch GmbH & Co. KG
Hückeswagen, 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	Metallic
Suitable for open deck	Yes
Suitable for Hazardous areas	Yes

Issued at **Hamburg** on **2018-09-26**

This Certificate is valid until **2023-09-25**.

DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Carsten Hunsalz**

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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.



Product description

Type designation:	LevelEx
Gland material:	Brass, nickel plated brass or Stainless steel
Seal material:	Silicon
Operating temperature range:	- 60 to +130°C
Degree of protection:	IP66, IP68 (10 bar 1h)
Cable type:	Braided / Armoured or Unbraided / Unarmoured (no connection for braid/armour)
Gland sizes range:	Metric thread size: 16, 20, 25, 32, 40, 50, 63 NPT thread size: 3/8", 1/2", 3/4", 1", 1 1/4", 2", 2 1/2"
Ex classification:	II 2G Ex db eb IIC Gb / II 1D Ex ta IIIC Da
Ex certificate number:	PTB 18 ATEX 1001X and PTB Ex 18-17169, IECEX PTB 18.0001X and IECEX no. DE/PTB/ExTR18.0001/00

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 recognised 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 Rules

Degree of protection will be safeguarded only when sealing and cable entry fittings are properly fitted. The manufacturer's instructions must be followed.

Type Approval documentation

Tests carried out

Type tests in accordance with IEC/EN 60079-0:2017/2012, IEC/EN 60079-1:2014, IEC/EN 60079-7:2015, IEC/EN 60079-31:2013/2014, IEC/EN 60529:2013/2014

Marking of product

Name of 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)
- 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.



Job Id: **262.1-028343-1**
Certificate No: **TAE000036Y**

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