DNV·GL

Certificate No:
TAE00003E7

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)
HSM-EX series

Issued to
Shanghai Lankelec Co., Ltd.
Shanghai, China

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 **2019-02-26**

This Certificate is valid until **2024-02-25**.

for **DNV GL**

DNV GL local station: **Shanghai**

Approval Engineer: **Carsten Hunsalz**

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.

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Product description

Metallic cable gland according to ATEX for hazardous areas. Optional with "O" ring for IP degree 68 and nut to fix the gland inside the enclosure.

Classification according to IEC 62444

Code	Classification
6.1 Material	Metallic
6.2.1 Mechanical properties	Type A
6.2.3 Impact category	Category 8
6.3 Electrical properties	Non
6.4.1 IP class	IP66 / 68*
6.4.2 Temperature range	-20ºC - +80ºC

* For IP 68 additional O-ring must be used.

Ex classification:	II 2 G Ex e II / II 2 D Ex tD A21 IP66/68 (1.5m)
Ex certificate number:	TÜV 10 ATEX 7919 X

Sizes of cable glands

Size of thread	Cable diameter min/max [mm]	Article number
M16×1.5	6-8	HSM-EX-M16×1.5
M20×1.5	8-12	HSM-EX-M20×1.5
M25×1.5	12-16	HSM-EX-M25×1.5
M32×1.5	17-22	HSM-EX-M32×1.5
M40×1.5	18-25	HSM-EX-M40×1.5
M50×1.5	32-38	HSM-EX-M50×1.5
M63×1.5	37-44	HSM-EX-M63×1.5
M75×1.5	46-52	HSM-EX-M75×1.5
PG9	6-8	HSM-EX-PG9
PG11	8-12	HSM-EX-PG11
PG16	12-16	HSM-EX-PG16
PG21	13-18	HSM-EX-PG21
PG29	18-25	HSM-EX-PG29
PG42	32-38	HSM-EX-PG42
PG48	37-44	HSM-EX-PG48

Application/Limitation

Manufacturer's installation description, instructions and DNV GL rules to be followed.

Not no be used in bulkheads/decks or for penetrating boundaries of tanks.

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 test in accordance with EN 60079-0:2006, EN 60079-7:2007, EN 61241-0:2006 & EN 61241-1:2004

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.

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