



Certificate no.:
TAE00004YB

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Cable Gland

with type designation(s)
Pflitsch blueglobe TRI NM/Cr and blueglobe Cr

issued to
PFLITSCH GmbH & Co. KG
Hückeswagen, Nordrhein-Westfalen, Germany

is found to comply with
DNV 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.

Material	Metallic
Suitable for open deck	Yes
Suitable for Hazardous areas	No

Issued at **Hamburg** on **2024-10-02**

This Certificate is valid until **2029-10-01**.

for **DNV**

DNV local unit: **Essen**

Approval Engineer: **Carsten Hunsalz**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.



Form code: TA 251

Revision: 2023-09

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Product description

Type blueglobe TRI NM/Cr (with EMC Spring)
M16x1,5 bg 216ms 7triNM/Sc/Cr 9lg
M18x1,5 bg 21822ms triNM/Sc/Cr 10lg
M24x1,5 bg 22428ms triNM/Sc/Cr 11lg
M30x2,0 bg 23034ms24 triNM/Cr 12lg
M36x2,0 bg 23642ms27 triNM/Cr 13lg
M45x2,0 bg 24542ms27 triNM/Cr 14lg
M56x2,0 bg 25652ms triNM/Cr 15lg
M72x2,0 bg 27265ms triNM/Cr 16lg

Type blueglobe Cr
M16x1,5 bg 216ms 7/Sc/Cr 9lg
M18x1,5 bg 21822ms/Sc/Cr 10lg
M24x1,5 bg 22428ms/Sc/Cr 11lg
M30x2,0 bg 23034ms24/Cr 12lg
M36x2,0 bg 23642ms27/Cr 13lg
M45x2,0 bg 24542ms27/Cr 14lg
M56x2,0 bg 25652msCr 15lg
M72x2,0 bg 27265ms/Cr 16lg

Classification according to IEC 62444:

Class	Category
6.1 Material	Metallic
6.2.1 Mechanical properties	Anchorage Type A
6.2.3 Impact category	Category 6
6.3 Electrical properties	*
6.4.1 Degree of protection	IP66, IP68 / 10 bar / 30 min
6.4.2 Temperature range	-33°C to +90°C
6.4.3 Resistance to external influence	Not declared
6.5 Sealing system	With a single-orifice seal seal material: TPE, O-Ring: HNBR

* Electrical connection to metallic layer(s) of cables according to VG 88846-2 Annex A for type blueglobe TRI NM/Cr (with EMC Spring)

Application/Limitation

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

Not to be used in bulkheads/decks or for penetrating boundaries of tanks.

Type Approval documentation

Tests carried out

Type tests in accordance with IEC 62444:2010 / DIN EN 62444 (VDE 0619):2014, VG 88846-4:2021, VG 88846-2:2018

Marking of product

Name of manufacturer – type designation.

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