



Certificate No:
TAE00004KE

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)
SIB-TEC ATEX (including CEM variants)

Issued to

SIB Solutions Industry & Building
Boulay, Moselle, France

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Cable glands for electric installation.

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Material	See product description
Suitable for open deck	Yes
Suitable for Hazardous areas	Yes

Issued at **Høvik** on **2022-12-06**

for **DNV**

This Certificate is valid until **2027-12-05**.

DNV local station: **France CMC**

Approval Engineer: **Marcin Tobiasz**

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Frederik Tore Elter
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.

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 300,000 USD.



Product description

Cable glands for electric installation

Type	SIB-TEC (EX version)
Design Specification	EN IEC 60079-0:2018; EN 60079-7:2015 + A1:2018; EN 60079-31:2014, IEC 62444: 2010, EN 62444: 2013, DIN EN 62444 (VDE 0619):2014-05
Operating temperature range	-40°C to +100°C
Cable anchorage	Type A
Ingress protection	IP66; IP68 / 5bar / 30min
Gland material	Brass, Nickel Plated Brass, Stainless Steel
Seal material	Elastomer
Cable type	Armoured or Unarmoured
Gland sizes	PG thread size: PG07, PG09, PG11, PG13, PG16, PG21, PG29, PG36, PG42, PG48, PG48 DIN. Metric thread size: M12, M16, M20, M25, M32, M40, M50, M63. NPT thread size: 3/8", 1/2", 3/4", 1.
Ex classification:	II 2 GD Ex eb IIC Gb/ II 2 GD Ex tb IIC Db
Ex certificate number:	LCIE 03 ATEX 6400X
Optional accessories	Long and short connection thread, EMC components, Locknut, 2 sealing ring versions (standard or reductive)
Type code designation	ISO Short: C52XX000E/005E, C52XX100E/105E, C52XX040E/045E, C52XX140E/145E ISO Long: C53XX000E/005E, C53XX100E/105E, C53XX040E/045E, C53XX140E/145E PG Short: C50XX000E/005E, C50XX100E/105E, C50XX400E/045E, C50XX140E/145E PG Long: C51XX000E/050E, C51XX100E/105E, C51XX400E/450E, C51XX140E/145E NPT: C54XX000E/050E, C54XX100E/105E, C54XX400E/450E, C54XX140E/145E

Application/Limitation

Manufacturer's application and assembly instructions to be followed.

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

Type Approval documentation

Tests carried out

Type tests according to EN IEC 60079-0, EN 60079-7, EN 60079-31, IEC 62444.

Marking of product

Name of manufacturer – type designation – Ex rating.

Periodical assessment

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

The main elements of the periodical assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)



Job Id: **262.1-036947-1**
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- 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 to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE