

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)

BMBC, BMBD, BMBE, BMBL (locknut), BMBC-E, BMBE-E, BSBC, BSBE, BSL (locknut), BNBC, BMSC, BMSD, BSSC, BMHG, BNHG, BMEHG, BNEHG, BHP, BMEM, BMEN, BSEM, BSEN, BNEM, BMEM-E, BMEM-E(M..T), BSEM-E(PG..T), BNEM-E(NPT..T), BMBCVG, BSBCVG, BMFG, BMEFG

Issued to

BIMED TEKNIK ALETLER SAN. TIC. A.S.
ISTANBUL, Turkey

is found to comply with

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

Application :

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

Type	Material	Suitable for open deck	Suitable for Hazardous areas
BMBC, BMBD, BMBE, BMBL (locknut), BMBC-E, BMBE-E, BSBC, BSBE, BSL (locknut), BNBC, BMSC, BMSD, BSSC	Metalic	Yes	No
BMHG, BNHG, BMEHG, BNEHG	Metalic	Yes	No
BHP	Metalic	Yes	No
BMEM, BMEN, BSEM, BSEN, BNEM	Metalic	Yes	No
BMEM-E	Metalic	Yes	No
BMEM-E(M..T), BSEM-E(PG..T), BNEM-E(NPT..T)	Metalic	Yes	No
BMBCVG, BSBCVG	Metalic	Yes	No
BMFG, BMEFG	Metalic	Yes	No

Issued at **Høvik** on **2020-06-08**

for **DNV GL**

This Certificate is valid until **2024-06-30**.

DNV GL local station: **Istanbul**

Approval Engineer: **Nicolay Horn**

Marta Alonso Pontes
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

Classification according to EN 62444

Standard metal cable glands:

Type designation	BMBC, BMBD, BMBE, BMBL (locknut), BMBC-E, BMBE-E, BSBC, BSBE, BSL (locknut), BNBC
6.1 Material	Metallic (Brass, Nickel plated)
6.2 Mechanical properties	Non-armoured cable anchorage, type A
6.3 Electrical properties	N/A
6.4 Resistance to external influences:	
6.4.1 IP class	IP68 (5 bar, 30min)/ IP66/IP69
6.4.2 Temperature range (if different than -20°C to +65°C)	-20°C to +100°C
6.5 Sealing system	Single- orifice
Seal Material	Chloroprene rubber
Gland sizes	Metric thread size: M12 – M63 (BMBC, BMBD, BMBE) Euro Metric thread size: M12 – M63 (BMBC-E, BMBE-E) Pg thread size: Pg7 – Pg48 (BSBC, BSBE) NPT thread size: 3/8" – 1" (BNBC)

Type designation	BMSC, BMSD, BSSC
6.1 Material	Metallic (Stainless steel)
6.2 Mechanical properties	Non-armoured cable anchorage, type A
6.3 Electrical properties	N/A
6.4 Resistance to external influences:	
6.4.1 IP class	IP68 (5 bar, 30min)/ IP66/IP69
6.4.2 Temperature range (if different than -20°C to +65°C)	-20°C to +100°C
6.5 Sealing system	Single- orifice
Seal Material	Chloroprene rubber
Gland sizes	Metric thread size: M12 – M63 (BMSC, BMSD) Pg thread size: Pg7 – Pg48 (BSBC, BSBE)

Type designation	BMHG, BNHG, BMEHG, BNEHG
6.1 Material	Metallic (Stainless steel)
6.2 Mechanical properties	Non-armoured cable anchorage, type A
6.2.3 Impact category	Category 4 (for M25) Category 2 (for M12/M16/M20)
6.3 Electrical properties	N/A
6.4 Resistance to external influences:	
6.4.1 IP class	IP68 (5 bar, 30min)/ IP66 /IP69
6.4.2 Temperature range (if different than -20°C to +65°C)	-20°C to +100°C
6.4.3 Resistance to UV light	Resistant
6.5 Sealing system	Single- orifice
Seal Material	Chloroprene rubber
Gland sizes	Metric thread size: M12 – M63 Pg thread size: Pg7 – Pg48

Job Id: **262.1-018821-2**
 Certificate No: **TAE00003WY**

Type designation	BHP
6.1 Material	Metallic (Brass/Nickel plated Stainless steel)
6.2 Mechanical properties	Non-armoured cable anchorage, type B
6.2.3 Impact category	Category 4
6.3 Electrical properties	N/A
6.4 Resistance to external influences:	
6.4.1 IP class	IP68 (5 bar, 30min)/ IP66 / IP69
6.4.2 Temperature range (if different than -20°C to +65°C)	-20°C to +80°C -40°C to +100°C
6.4.3 Resistance to UV light	Resistant
6.5 Sealing system	Single- orifice
Seal Material	Chloroprene rubber
Gland sizes	Metric thread size: M12 – M63 Pg thread size: Pg7 – Pg48

EMC2 cable glands:

Type designation	BMEM, BMEN, BSEM, BSEN, BNEM
6.1 Material	Metallic (Brass, Nickel plated)
6.2 Mechanical properties	Non-armoured cable anchorage, type A
6.3 Electrical properties	N/A
6.4 Resistance to external influences:	
6.4.1 IP class	IP68 (5 bar, 30min)/ IP66 /IP69
6.4.2 Temperature range (if different than -20°C to +65°C)	-20°C to +100°C
6.5 Sealing system	Single- orifice
Seal Material	Chloroprene rubber
Gland sizes	Metric thread size: M12 – M63 (BMEM, BMEN,) Pg thread size: Pg7 – Pg48 (BSEM, BSEN) NPT thread size: 3/8" – 1" (BNEM)

EMC3 cable glands:

Type designation	BMEM-E
6.1 Material	Metallic (Brass, Nickel plated)
6.2 Mechanical properties	Non-armoured cable anchorage, type A
6.3 Electrical properties	N/A
6.4 Resistance to external influences:	
6.4.1 IP class	IP68 (5 bar, 30min)/ IP66 /IP69
6.4.2 Temperature range (if different than -20°C to +65°C)	-20°C to +100°C
6.5 Sealing system	Single- orifice
Seal Material	Chloroprene rubber
Gland sizes	Euro-metric thread size: M12-M63

EMC4 cable glands:

Type designation	BMEM-E(M..T), BSEM-E(PG..T), BNEM-E(NPT..T)
6.1 Material	Metallic (Brass, Nickel plated)
6.2 Mechanical properties	Non-armoured cable anchorage, type A
6.3 Electrical properties	N/A
6.4 Resistance to external influences:	
6.4.1 IP class	IP68 (5 bar, 30min)/ IP66 /IP69
6.4.2 Temperature range (if different than -20°C to +65°C)	-20°C to +100°C
6.5 Sealing system	Single- orifice
Seal Material	Chloroprene rubber
Gland sizes	Metric thread size: M12 – M63 (BMEM-E (M..T)) Pg thread size: Pg7 – Pg48 (BSEM-E (PG..T)) NPT thread size: 1/4" – 2" (BNEM-E(NPT..T))

Accessories: EMC lock nuts (BMEL, BSEL)

Type designation	BMEL, BSEL (locknuts)
Material	Metallic (Brass, Nickel plated)
Gland sizes	Metric thread size: M12 – M63 Pg thread size: Pg7 – Pg48

Ventilation cable glands:

Type designation	BMBCVG, BSBCVG
6.1 Material	Metallic (Brass, Nickel plated)
6.2 Mechanical properties	Non-armoured cable anchorage, type A
6.3 Electrical properties	N/A
6.4 Resistance to external influences:	
6.4.1 IP class	IP66/IP67
6.4.2 Temperature range (if different than -20°C to +65°C)	-20°C to +100°C
6.5 Sealing system	Single- orifice
Seal Material	Chloroprene rubber
Gland sizes	Metric thread size: M12 – M20 (BMBCVG) Pg thread size: Pg7 – Pg13,5 (BSBCVG)

Hygienic cable glands:

Type designation	BMFG, BMEFG
6.1 Material	Metallic (Stainless steel)
6.2 Mechanical properties	Non-armoured cable anchorage, type A or type B
6.3 Electrical properties	N/A
6.4 Resistance to external influences:	
6.4.1 IP class	IP68 (5 bar, 30min)
6.4.2 Temperature range (if different than -20°C to +65°C)	-20°C to +100°C
6.5 Sealing system	Single- orifice
Seal Material	TPE
Gland sizes	Metric thread size: M12 – M25 (BMFG) M16 – M25 (BMEFG) Pg thread size: Pg7 – Pg13,5 (BSBCVG)

Job Id: **262.1-018821-2**
Certificate No: **TAE00003WY**

Name and place of manufacturer

BIMED TEKNIK ALETLER SAN. TIC. A.S. Istanbul, Turkey	BIMED TEKNIK Romania SLR Arges, Romania
---	--

Application/Limitation

For use in non-hazardous areas. The manufacturer's installation description to be followed.

Type Approval documentation

VDE Test Reports no. 255465-TL6-2 dated 2018-12-14 and 255459-TL6-1 dated 2019-05-20
Documentation linked to App. Letter with Ref. MCANO381/PONT/262.1-018821-J-20 dated 09.02.2015

Tests carried out

Type tests in accordance with EN 62444.

Marking of product

BMD – 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 periodical assessment are:

- Inspection of factory samples, selected at random from the production line (where practicable)
- Results from routine tests (RT) to be checked (if not available tests new RT to be carried out)
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and type approval certificate

Periodical assessment shall be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE