

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, BSSC, BMEM, BMEN, BSEM, BSEN, BNEM, BMEM-E, BMEM-E(M..T), BSEM-E(PG..T), BNEM-E(NPT..T), BMEL (locknut), BSEL (locknut), BMBCVCG, BSBCVCG, BMFG, BMEFG

Issued to

**Bimed Teknik Aletler San. Tic. A.S.
ISTANBUL, Turkey**

is found to comply with

Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards**Application :****Cable glands & cable gland's accessories for non-hazardous areas. Manufacturer's installation description shall be followed.**This Certificate is valid until **2019-06-30**.Issued at **Høvik** on **2015-03-10**DNV GL local station: **Istanbul**Approval Engineer: **Marta Alonso Pontes**for **DNV GL**

**Marit Laumann
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.

Certificate No: **E-14047**
 File No: **828.90**
 Job Id: **262.1-018821-1**

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
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)

Standard metal cable glands :

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
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)

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)
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)

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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)
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)
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)

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Hygienic cable glands :

Type designation	BMFG, BMEFG
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)
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)

Application/Limitation

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

Type Approval documentation

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 according to 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 least every second year.

END OF CERTIFICATE