



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX IMQ 13.0006X**

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Certificate history:

Status: **Current**

Issue No: 9

Issue 8 (2021-12-15)

Issue 7 (2021-06-28)

Issue 6 (2020-02-19)

Issue 5 (2019-02-19)

Issue 4 (2016-09-08)

Issue 3 (2015-11-04)

Issue 2 (2014-12-15)

Issue 1 (2014-09-09)

Issue 0 (2013-11-15)

Date of Issue: 2022-04-22

Applicant: **Bimed Teknik Aletler Sanayi Ve Ticaret A.Ş.**  
S.S Bakir Piriç Sanayi Sitesi Leylak Caddesi no:16  
TR-34524 Beylikdüzü İstanbul (TURKEY)  
**Türkiye**

Equipment: **Metal cable glands for circular and for flat cables series**  
**EBU...; EBM.....; EBMC...; EBS...; EBLN...; EBLQ...;**  
**EBLN...; EBMS.....; NBU...; EBU...(axb); EBM.....(axb);**  
**EBMC..(axb); EBS..(axb); EBLN..(axb); EBLQ..(axb);**  
**EBLN..(axb); EBMS.....(axb)**

Optional accessory:

Type of Protection: **Ex db; Ex eb; Ex tb**

Marking: Ex db IIC Gb

Ex eb IIC Gb

Ex tb IIIC Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Mr. Mauro CASARI**

Position:

**IMQ ExCB Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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**Via Quintiliano 43**  
**20138 Milano**  
**Italy**





# IECEX Certificate of Conformity

Certificate No.: **IECEX IMQ 13.0006X**

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Date of issue: 2022-04-22

Issue No: 9

Manufacturer: **Bimed Teknik Aletler Sanayi Ve Ticaret A.Ş.**  
S.S Bakir Piriç Sanayi Sitesi Leylak Caddesi no:16  
TR-34524 Beylikdüzü İstanbul (TURKEY)  
**Türkiye**

Manufacturing locations: **Bimed Teknik Aletler Sanayi Ve Ticaret A.Ş.**  
S.S Bakir Piriç Sanayi Sitesi Leylak Caddesi no:16  
TR-34524 Beylikdüzü İstanbul (TURKEY)  
**Türkiye**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[IT/IMQ/ExTR13.0006/09](#)

Quality Assessment Report:

[IT/CES/QAR12.0003/08](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX IMQ 13.0006X**

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Date of issue: 2022-04-22

Issue No: 9

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The cable glands series EBU...; EBM.....; EBMC...; EBS...; EBL...; EBLQ...; EBLN...; EBMS..... are suitable for inserting circular cables into Ex db enclosures having threaded entries and Ex eb or Ex tb enclosures having either threaded or plane entries.

The cable glands series NBU... are suitable for inserting circular cables into Ex eb or Ex tb enclosures having either threaded or plane entries.

The cable glands series EBU...(axb); EBM.....(axb); EBMC...(axb); EBS...(axb); EBL...(axb); EBLQ...(axb); EBLN...(axb); EBMS.....(axb) are suitable for inserting flat cables into Ex eb or Ex tb enclosures having either threaded or plane entries.

Cable glands are suitable for not-armoured cables, and are made of metal body (aluminium; stainless steel; brass; galvanized steel; nickel plated brass). Sealing rings are made of silicon or neoprene (chloroprene) for all types, except for NBU... type in which sealing rings are made of silicone or EPDM rubber.

To guarantee the IP 66/68 degree of protection the cable glands with cylindrical threads have a sealing edge machined for fitting an elastomeric gasket, while for all other threads the IP66/68

degree of protection is achieved with sealant put at least on two complete threads engaged of the threaded coupling.

Cable glands are suitable for electrical equipment either with type of protection Ex eb, Ex db or type of protection Ex tb, suitability for each model is shown in tables included in Annex. Cable glands should be also used for intrinsically safe circuits Ex i. These cable glands shall have a light blue painted part.

Cable glands for circular cables can be supplied with tap, commercial called "dome plug", polyamide made, as accessory (BDPX.-.-, available in black, green and blue color), suitable to guarantee IP degree when installed according to manufacturer's instructions.

Cable glands are suitable for cable type where sealing and retention is required by gripping the outer sheath (including armoured/screened/braided cables when the armour/screen/braid is clamped inside the terminating equipment)

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting
- The coupling of the cable glands to the enclosure and torque values of cap clamping shall be made as indicated by the manufacturer in the documents annexed to this certificate in order to respect the type of protection of the electrical apparatus on which cable glands are mounted.
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- The cable gland installation shall be done in such a way that the temperature at the mounting point will remain within the service temperature ranges declared in this certificate.
- When cable glands are installed with polyamide insert BDPX.-.-, mechanical risk have to be taken into account, depending on cable gland and insert tap. The upper operating temperature is limited to 70 °C. When insert tap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only). Precautions shall be taken in order to guarantee protection against risk of mechanical damage is provided, when insert taps are suitable for low mechanical risk (4J) only.
- Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to manufacturer's instruction.
- The cable glands in metric threads can be produced with TL9,0mm for Ex eb and Ex tb only.  
In order to guarantee Ex tb type of protection in installation, external Oring or Gasket shall be mounted. For nonthreaded enclosure, the locknut shall be fully engaged
- The minimum wall thickness shall be 1,5 mm for non threaded enclosures.



# IECEX Certificate of Conformity

Certificate No.: **IECEX IMQ 13.0006X**

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Date of issue: 2022-04-22

Issue No: 9

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Issue 1:

- Standard updating to IEC 60079-0:2011, 6th Edition
- Adding of mode of protection Ex d for: EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...
- Limitation of temperature range with silicone sealing ring if these cable glands types are in execution Ex d.
- Adding new model EBU01S. included as execution Ex d, Ex e and Ex tb.
- Adding new type EBMS..... derived from already mentioned cable glands types: differences have no effects on protection mode.
- Adding new type NBU... in execution Ex e and Ex tb.
- Adding KLINGERSIL® C-4400 as material used for additional gasket between cable gland and enclosure.

### Issue 2:

Details on dust tests added

### Issue 3:

Standard updating to IEC 60079-1:2014, 7th Edition and IEC 60079-31:2013, 2nd edition.

New models EBU (axb), EBM (axb), EBS (axb), EBMC (axb), EBLN (axb), EBLQ (axb), EBLs (axb), EBMS (axb) for non circular (flat cables) for M20 and M25 threads, silicone sealing ring only (-60÷140°C), Ex e Ex tb execution only.

For Ex e Ex tb execution only: upgrade upper temperature for silicone sealing rings from 100 °C to 140 °C, for the series EBU, EBM, EBS, EBMC, EBLN, EBLQ, EBLs, EBMS.

Dome plug in polyamide Staramide BST43 (RTI: 90 °C), black colour, for sizes M16 ... M63. They can be used when S1+S2+S3 are in place only.

Insert PA gasket (Akulon F223-D, RTI/TI: 85°C) and metal (carbon steel or stainless steel) serrated washer

### Issue 4:

Standard updating to IEC 60079-7:2015, 5th Edition

Change in length for some sizes

Adding new intermediate sizes and new bigger sizes for EBU, EBMC, EBS series

Insert green and blue version of polyamide dome plug

Insert Viton O-ring (COT: -17÷230 °C)

### Issue 5:

New sizes M80x1,5 and M80x2,0 were added to EBU, EBM and EBMS type cable glands.

### Issue 6:

- Standard updating to IEC 60079-0:2017, 7th Edition

- New clamping range for size M63 has been added to EBU type cable glands for Ex eb and Ex tb execution, for all body type material except aluminium.

### Issue 7:

Adding x2.0 thread option for cable glands EBU and EBS series having sizes bigger than M63

### Issue 8:

Standard updating to IEC 60079-7:2017, 5.1th Edition

### Issue 9:

Alternative brass and alternative aluminium alloys added.

Alternative thread length TL9,0mm have been added to all cable gland types (EBU, EBM, EBS, EBMC, EBLN, EBLQ, EBLs, EBMS, NBU) in Metric threads, and Ex eb and Ex tb only.

## Annex:

[IECEX IMQ 13.0006 X issue No. 9 Annex.pdf](#)

**Annex to:** IECEx IMQ 13.0006X issue No. 9  
**Applicant:** Bimed Teknik Aletler San. Ve Tic. A.Ş.



**Apparatus:** EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...; EBMS.....; NBU...  
 EBU...(axb); EBM.....(axb); EBMC... (axb); EBS... (axb); EBLs... (axb); EBLQ... (axb); EBLN... (axb); EBMS.....(axb)

### General description

The cable glands series EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...; EBMS..... are suitable for inserting circular cables into Ex db enclosures having threaded entries and Ex eb or Ex tb enclosures having either threaded or plane entries.

The cable glands series NBU... are suitable for inserting circular cables into Ex eb or Ex tb enclosures having either threaded or plane entries.

The cable glands series EBU...(axb); EBM.....(axb); EBMC...(axb); EBS...(axb); EBLs...(axb); EBLQ...(axb); EBLN...(axb); EBMS.....(axb) are suitable for inserting flat cables into Ex eb or Ex tb enclosures having either threaded or plane entries.

Cable glands are suitable for not-armoured cables, and are made of metal body (aluminium; stainless steel; brass; galvanized steel; nickel plated brass). Sealing rings are made of silicon or neoprene (chloroprene) for all types, except for NBU... type in which sealing rings are made of silicone or EPDM rubber. Details in Table 2.

To guarantee the IP 66/68 degree of protection the cable glands with cylindrical threads have a sealing edge machined for fitting an elastomeric gasket, while for all other threads the IP66/68 degree of protection is achieved with sealant put at least on two complete threads engaged of the threaded coupling. Cable glands are suitable for electrical equipment either with type of protection Ex eb, Ex db or type of protection Ex tb, suitability for each model is shown in following tables. Cable glands should be also used for intrinsically safe circuits Ex i. These cable glands may have light blue painted parts or any suitable identification according to the EN 60079-14.

Cable glands for circular cables can be supplied with tap, commercial called “dome plug”, polyamide made, as accessory (BDPX.-.-, available in black, green, blue color), suitable to guarantee IP degree when installed according to manufacturer’s instructions. Details in Table 5.

Cable glands are suitable for cable type where sealing and retention is required by gripping the outer sheath (including armoured/screened/braided cables when the armour/screen/braid is clamped inside the terminating equipment).

The cable gland series EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...; EBMS..... can be used with locknut, dome plug, serrated washer as accessories. The cable gland series EBU...(axb); EBM.....(axb); EBMC... (axb); EBS... (axb); EBLs... (axb); EBLQ... (axb); EBLN... (axb); EBMS.....(axb) can be used with locknut and serrated washer as accessories.

### Design options and Key code

#### Design options:

Table 1: Rated ambient temperature range (°C)		
Serie:	Ex eb – Ex tb execution	Ex db execution
EBU...	neoprene sealing ring: -40°C + +80°C silicone sealing ring: -60°C + +140°C	neoprene sealing ring: -40°C + +80°C silicone sealing ring: -60°C + +80°C
EBM.....		
EBMC...		
EBS...		
EBLS...		
EBLQ...		
EBLN...		
EBMS.....		
NBU...	EPDM sealing ring: -40°C + +80°C silicone sealing ring: -60°C + +80°C	Not possible
EBU...(axb)	silicone sealing ring: -60°C + +140°C	Not possible
EBM.....(axb)		
EBMC...(axb)		
EBS...(axb)		
EBLS...(axb)		
EBLQ...(axb)		
EBLN...(axb)		
EBMS.....(axb)		

**Annex to:** IECEx IMQ 13.0006X issue No. 9  
**Applicant:** Bimed Teknik Aletler San. Ve Tic. A.Ş.



**Apparatus:** EBU...; EBM.....; EBMC...; EBS...; EBL...; EBLQ...; EBLN...; EBMS.....; NBU...

EBU...(axb); EBM.....(axb); EBMC... (axb); EBS.. (axb); EBL... (axb); EBLQ... (axb); EBLN.. (axb); EBMS.....(axb)

Table 2: Materials <sup>1</sup>				
Series	Body materials	Sealing rings material	Flat washer materials	O-ring
EBU...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBM.....	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBMC...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBS...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBL...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBLQ...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBLN...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBMS.....	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
NBU...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	EPDM rubber silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBU...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBM.....(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBMC...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBS...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBL...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBLQ...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBLN...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton
EBMS.....(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber,PA washer	neoprene silicone EPDM, Viton

Annex to: IECEx IMQ 13.0006X issue No. 9  
 Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



Apparatus: EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...;  
 EBMS.....; NBU...

EBU...(axb); EBM.....(axb); EBMC..(axb); EBS..(axb); EBLs..  
 (axb); EBLQ..(axb); EBLN..(axb); EBMS.....(axb)

Models:

Type	Code	TD ISO 965-3	D Clamping Range Ø min-max	S1+S2+S3	S1+S2	S1
EBU	0XSM	M8x1.25	2,0-4,0	-	-	2-4
EBU	0SM	M12x1.5	4,0-8,0	4-6	6-8	-
EBU	0M	M12x1.5	3,0-8,0	-	3-6	6-8
EBU	01SM	M16x1.5	3,0-9,0	-	3-6	6-9
EBU	01M	M16x1.5	4,0-12,0	4-6	6-9	9-12
EBU	1SM	M20x1.5	3,0-9,0	-	3-6	6-9
EBU	1M	M20x1.5	4,0-12,0	4-6	6-9	9-12
EBU	12M	M20x1.5	10,0-16,0	10-12	12-14,5	14,5-16
EBU	2SM	M25x1.5	4,0-12,0	4-6	6-9	9-12
EBU	2M	M25x1.5	10,0-18,0	10-12	12-14,5	14,5-18
EBU	23M	M25x1.5	14,0-20,0	14-17	17-20	-
EBU	3SM	M32x1.5	10,0-18,0	10-12	12-14,5	14,5-18
EBU	3M	M32x1.5	14,0-24,0	14-17	17-20	20-24
EBU	34M	M32x1.5	22,0-28,0	22-24	24-27	27-28
EBU	4SM	M40x1.5	14,0-24,0	14-17	17-20	20-24
EBU	4M	M40x1.5	22,0-32,0	22-24	24-27	27-32
EBU	45M	M40x1.5	26,0-34,0	26-28	28-31	31-34
EBU	5SM	M50x1.5	22,0-32,0	22-24	24-27	27-32
EBU	5M	M50x1.5	26,0-35,0	26-28	28-31	31-35
EBU	56M	M50x1.5	35,0-44,0	35-38	38-41	41-44
EBU	6SM	M63x1.5	26,0-35,0	26-28	28-31	31-35
EBU	6S2M	M63x2.0	26,0-35,0	26-28	28-31	31-35
EBU	6M	M63x1.5	35,0-45,0	35-38	38-41	41-45
EBU	62M	M63x2.0	35,0-45,0	35-38	38-41	41-45
EBU	67SM	M63x1.5	42,0-56,0	42-48	48-52	52-56
EBU	67S2M	M63x2.0	42,0-56,0	42-48	48-52	52-56
EBU	67M	M63x1.5	46,0-56,0	46-48	48-52	52-56
EBU	672M	M63x2.0	46,0-56,0	46-48	48-52	52-45
EBU	7SM	M75x1.5	35,0-45,0	35-38	38-41	41-45
EBU	7S2M	M75x2.0	35,0-45,0	35-38	38-41	41-45
EBU	7M	M75x1.5	46,0-62,0	46-51	51-56	56-62
EBU	72M	M75x2.0	46,0-62,0	46-51	51-56	56-62
EBU	78M	M75x1.5	60,0-69,0	60-65	65-69	-
EBU	782M	M75x2.0	60,0-69,0	60-65	65-69	-
EBU	80M	M80x1.5	60,0-71,0	60-65	65-70	70-71
EBU	82M	M80x2.0	60,0-71,0	60-65	65-70	70-71
EBU	8SM	M90x1.5	46,0-62,0	46-51	51-56	56-62
EBU	8S2M	M90x2.0	46,0-62,0	46-51	51-56	56-62
EBU	8M	M90x1.5	60,0-75,0	60-65	65-70	70-75
EBU	82LM	M90x2.0	60,0-75,0	60-65	65-70	70-75
EBU	810M	M90x1.5	75,0-82,0	75-78	78-81	81-82
EBU	8102M	M90x2.0	75,0-82,0	75-78	78-81	81-82
EBU	10SM	M100x1.5	60,0-75,0	60-65	65-70	70-75
EBU	10S2M	M100x2.0	60,0-75,0	60-65	65-70	70-75
EBU	10M	M100x1.5	75,0-85,0	75-78	78-81	81-85
EBU	102M	M100x2.0	75,0-85,0	75-78	78-81	81-85
EBU	11M	M110x1.5	85,0-95,0	85-88	88-91	91-95
EBU	112M	M110x2.0	85,0-95,0	85-88	88-91	91-95
EBU	115XSM	M115x2.0	75,0-85,0	75-78	78-81	81-85
EBU	115SM	M115x2.0	85,0-95,0	85-88	88-91	91-95
EBU	115M	M115x2.0	95,0-105,0	95-98	98-101	101-105
EBU	13M	M130x2.0	105,0-115,0	105-108	108-111	111-115

Note: EBU0XSM and EBU0SM are only for Ex eb, Ex tb applications.

**Annex to:** IECEx IMQ 13.0006X issue No. 9  
**Applicant:** Bimed Teknik Aletler San. Ve Tic. A.Ş.



**Apparatus:** EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...; EBMS.....; NBU...

EBU...(axb); EBM.....(axb); EBMC..(axb); EBS..(axb); EBLs..(axb); EBLQ..(axb); EBLN..(axb); EBMS.....(axb)

Type	TD ISO pitch 1,5	D Clamping Range Ø min.-max.	S1+S2+S3	S1+S2	S1
EBMC	0SM (M12)	4-8	4-6	6-8	-
EBMC	01SM(M16)	3-9	-	3-6	6-9
EBMC	01M (M16)	4-12	4-6	6-9	9-12
EBMC	1SM(M20)	3-9	-	3-6	6-9
EBMC	1M (M20)	4-12	4-6	6-9	9-12
EBMC	12M (M20)	10-16	10-12	12-14,5	14,5-16
EBMC	2M (M25)	10-18	10-12	12-14,5	14,5-18
EBMC	23M (M25)	14-20	14-17	17-20	-
EBMC	3M (M32)	14-24	14-17	17-20	20-24
EBMC	34M (M32)	22-28	22-24	24-27	27-28
EBMC	4M (M40)	22-32	22-24	24-27	27-32
EBMC	45M (M40)	26-34	26-28	28-31	31-34
EBMC	5M (M50)	26-35	26-28	28-31	31-35
EBMC	56M (M50)	35-44	35-38	38-41	41-44
EBMC	6M (M63)	35-45	35-38	38-41	41-45
EBMC	7M (M75)	46-59	46-51	51-56	56-59

Note: EBMC0SM is only for Ex eb, Ex tb applications.

Type	Code	TD ISO 965-3	D Clamping Range Ømin- max	S1+S2+S3	S1+S2	S1
EBS	01SM	M16x1.5	4,0-8,0	-	4-6	6-8
EBS	01M	M16x1.5	4,0-8,0	-	4-6	6-8
EBS	1M	M20x1.5	4,0-12,0	4-6	6-9	9-12
EBS	2M	M25x1.5	10,0-18,0	10-12	12-14,5	14,5-18
EBS	3M	M32x1.5	14,0-24,0	14-17	17-20	20-24
EBS	4M	M40x1.5	22,0-32,0	22-24	24-27	27-32
EBS	5M	M50x1.5	26,0-35,0	26-28	28-31	31-35
EBS	6M	M63x1.5	35,0-45,0	35-38	38-41	41-45
EBS	62M	M63x2.0	35,0-45,0	35-38	38-41	41-45
EBS	7M	M75x1.5	46,0-62,0	46-51	51-56	56-62
EBS	72M	M75x2.0	46,0-62,0	46-51	51-56	56-62
EBS	8M	M90x1.5	60,0-75,0	60-65	65-70	70-75
EBS	82M	M90x2.0	60,0-75,0	60-65	65-70	70-75
EBS	10M	M100x1.5	75,0-85,0	75-78	78-81	81-85
EBS	102M	M100x2.0	75,0-85,0	75-78	78-81	81-85
EBS	11M	M110x1.5	85,0-95,0	85-88	88-91	91-95
EBS	112M	M110x2.0	85,0-95,0	85-88	88-91	91-95

Type	D Clamping	S1+S2+S3	S1+S2	S1
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Annex to: IECEx IMQ 13.0006X issue No. 9  
 Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



Apparatus: EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...;  
 EBMS.....; NBU...  
 EBU...(axb); EBM.....(axb); EBMC..(axb); EBS..(axb); EBLs..  
 (axb); EBLQ..(axb); EBLN..(axb); EBMS.....(axb)

			Range Ø				
			min.	max.			
EBM	0SM	0SM	4	8	4-6	6-8	-
EBM	0SM	01M	4	8	4-6	6-8	-
EBM	01M	0SM	4	10	4-6	6-9	9-10
EBM	01M	01M	4	12	4-6	6-9	9-12
EBM	01M	12M	4	12	4-6	6-9	9-12
EBM	12M	01M	4	12	4-6	6-9	9-12
EBM	1M	1M	4	12	4-6	6-9	9-12
EBM	12M	12M	10	16	10-12	12-14,5	14,5-16
EBM	12M	23M	10	16	10-12	12-14,5	14,5-16
EBM	23M	12M	10	16	10-12	12-14,5	14,5-16
EBM	2M	2M	10	18	10-12	12-14,5	14,5-18
EBM	23M	23M	14	20	14-17	17-20	-
EBM	23M	34M	14	20	14-17	17-20	-
EBM	34M	23M	14	20	14-17	17-20	-
EBM	3M	3M	14	24	14-17	17-20	20-24
EBM	34M	34M	22	28	22-24	24-27	27-28
EBM	34M	45M	22	28	22-24	24-27	27-28
EBM	45M	34M	22	28	22-24	24-27	27-28
EBM	4M	4M	22	32	22-24	24-27	27-32
EBM	45M	45M	26	34	26-28	28-31	31-34
EBM	45M	56M	26	34	26-28	28-31	31-34
EBM	5M	45M	26	34	26-28	28-31	31-34
EBM	5M	5M	26	35	26-28	28-31	31-35
EBM	56M	56M	35	44	35-38	38-41	41-44
EBM	56M	67M	35	44	35-38	38-41	41-44
EBM	67M	56M	35	44	35-38	38-41	41-44
EBM	6M	6M	35	45	35-38	38-41	41-45
EBM	67M	67M	46	56	46-48	48-52	52-56
EBM	67M	78M	46	56	46-48	48-52	52-56
EBM	78M	67M	46	56	46-48	48-52	52-56
EBM	7M	7M	46	62	46-51	51-56	56-62
EBM	78M	78M	60	69	60-65	65-69	-
EBM	78M	810M	60	69	60-65	65-69	-
EBM	80M	80M	60	71	60-65	65-70	70-71
EBM	82M	82M	60	71	60-65	65-70	70-71
EBM	80M	8M	60	71	60-65	65-70	70-71
EBM	82M	8M	60	71	60-65	65-70	70-71
EBM	810M	78M	60	69	60-65	65-69	-
EBM	8M	8M	60	75	60-65	65-70	70-75
EBM	810M	810M	75	82	75-78	78-81	81-82
EBM	810M	10M	75	82	75-78	78-81	81-82
EBM	10M	810M	75	82	75-78	78-81	81-82
EBM	10M	10M	75	85	75-78	78-81	81-85
EBM	11M	10M	75	85	75-78	78-81	81-85
EBM	11M	11M	85	95	85-89	89-92	92-95

Note: EBM0SM and EBM01M are only for Ex eb, Ex tb applications.

Type	TD	D	S1+S2+S3	S1+S2	S1
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**Annex to:** IECEx IMQ 13.0006X issue No. 9  
**Applicant:** Bimed Teknik Aletler San. Ve Tic. A.Ş.



**Apparatus:** EBU...; EBM.....; EBMC...; EBS...; EBLN...; EBLQ...; EBLN...;  
 EBMS.....; NBU...

EBU...(axb); EBM.....(axb); EBMC..(axb); EBS..(axb); EBLN..  
 (axb); EBLQ..(axb); EBLN..(axb); EBMS.....(axb)

	ISO Pitch 1,5	Clamping Range Ø min.- max.			
EBLN	02M (M12)	4,0-8,0	4-6	6-8	-
EBLN	01M (M16)	4,0-12,0	4-6	6-9	9-12
EBLN	1SM(3/8") (M20)	4,0-10,0	4-6	6-9	9-10
EBLN	1M (M20)	4,0-12,0	4-6	6-9	9-12
EBLN	2M (M25)	10,0-18,0	10-12	12-14,5	14,5-18
EBLN	3M (M32)	14,0-24,0	14-17	17-20	20-24
EBLN	4M (M40)	22,0-32,0	22-24	24-27	27-32
EBLN	5M (M50)	26,0-35,0	26-28	28-31	31-35

Note: EBLN02M is only for Ex eb, Ex tb applications.

Type	D Clamping Range Ø		S1+S2+S3	S1+S2	S1
	min.	max.			
EBMS 01M 01M	4	12	4-6	6-9	9-12
EBMS 01M 12M	4	12	4-6	6-9	9-12
EBMS 12M 01M	4	12	4-6	6-9	9-12
EBMS 1M 1M	4	12	4-6	6-9	9-12
EBMS 12M 12M	10	16	10-12	12-14,5	14,5-16
EBMS 12M 23M	10	16	10-12	12-14,5	14,5-16
EBMS 23M 12M	10	16	10-12	12-14,5	14,5-16
EBMS 2M 2M	10	18	10-12	12-14,5	14,5-18
EBMS 23M 23M	14	20	14-17	17-20	-
EBMS 23M 34M	14	20	14-17	17-20	-
EBMS 34M 23M	14	20	14-17	17-20	-
EBMS 3M 3M	14	24	14-17	17-20	20-24
EBMS 34M 34M	22	28	22-24	24-27	27-28
EBMS 34M 45M	22	28	22-24	24-27	27-28
EBMS 45M 34M	22	28	22-24	24-27	27-28
EBMS 4M 4M	22	32	22-24	24-27	27-32
EBMS 45M 45M	26	34	26-28	28-31	31-34
EBMS 45M 56M	26	34	26-28	28-31	31-34
EBMS 56M 45M	26	34	26-28	28-31	31-34
EBMS 5M 5M	26	35	26-28	28-31	31-35
EBMS 56M 56M	35	44	35-38	38-41	41-44
EBMS 56M 67M	35	44	35-38	38-41	41-44
EBMS 67M 56M	35	44	35-38	38-41	41-44
EBMS 6M 6M	35	45	35-38	38-41	41-45
EBMS 67M 67M	46	56	46-48	48-52	52-56
EBMS 67M 78M	46	56	46-48	48-52	52-56
EBMS 78M 67M	46	56	46-48	48-52	52-56
EBMS 7M 7M	46	62	46-51	51-56	56-62
EBMS 78M 78M	60	69	60-65	65-69	-
EBMS 78M 810M	60	69	60-65	65-69	-
EBMS 810M 78M	60	69	60-65	65-69	-
EBMS 80M 80M	60	71	60-65	65-69	69-71
EBMS 82M 82M	60	71	60-65	65-69	69-71

Annex to: IECEx IMQ 13.0006X issue No. 9  
 Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



Apparatus: EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...;  
 EBMS.....; NBU...

EBU...(axb); EBM.....(axb); EBMC... (axb); EBS... (axb); EBLs...  
 (axb); EBLQ... (axb); EBLN... (axb); EBMS.....(axb)

EBMS	80M	8M	60	71	60-65	65-69	69-71
EBMS	82M	8M	60	71	60-65	65-69	69-71
EBMS	8M	8M	60	75	60-65	65-70	70-75
EBMS	810M	810M	75	82	75-78	78-81	81-82
EBMS	810M	10M	75	82	75-78	78-81	81-82
EBMS	10M	810M	75	85	75-78	78-81	81-85
EBMS	10M	10M	75	85	75-78	78-81	81-85
EBMS	10M	11M	75	85	75-78	78-81	81-85
EBMS	11M	10M	75	85	75-78	78-81	81-85
EBMS	11M	11M	85	95	85-89	89-92	92-95

Model	Min-max cable Ø mm	S1	S1+S2
NBU 0XS..	4-7	4-7	-
NBU 01S..	5-8	5-8	-
NBU 1..	8-14	11-14	8-11
NBU 2..	10-16	13-16	10-13
NBU 3..	16-21	18-21	16-18
NBU 4..	18-27	22-27	18-22
NBU 5..	26-35	30-35	26-30
NBU 6..	32-49	40-49	32-40

Flat sealing ring details							
Sealing ring type	Sealing ring dimensions [mm x mm]	Cable min [mm x mm]	Cable max [mm x mm]	Sealing ring type	Sealing ring dimensions [mm x mm]	Cable min [mm x mm]	Cable max [mm x mm]
FxA1	5 x 12,2	5 x 10	5,75 x 12,2	FxA2	5 x 12,8	5 x 10,4	5,5 x 14
FxB1	6 x 8,5	5,75 x 8,5	6 x 10	FxB2	6 x 8,5	5,75 x 8,5	6 x 10
FxC1	5,5 x 11,7	5,3 x 11,3	5,5 x 11,7	FxC2	5,5 x 11,7	5,3 x 11,3	5,5 x 11,7
FxD1	6 x 12,2	5,3 x 11,3	6,5 x 14,5	FxD2	6 x 14	5,5 x 12	6,5 x 14,5
FxE1	6,3 x 10,8	5,3 x 11,3	6,3 x 10,8	FxE2	9,1 x 12,3	7 x 10	9,1 x 12,3
FxG1	6,7 x 12,7			FxF2	7,35 x 13,4	5,6 x 10	9 x 14
-	-	-	-	FxG2	6,8 x 15,3	6,5 x 14,8	6,8 x 15,3
-	-	-	-	FxH2	5,5 x 10,7	5,2 x 10	7 x 12

EBU...(axb)			
Model	Sealing ring type (refer to table 6)	Suitable for	
		Ex db	Ex eb Ex tb
EBU 1S..	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	no	yes
EBU 1..		no	yes
EBU 12..		no	yes
EBU 2..	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	no	yes
EBU 23..		no	yes

Annex to: IECEx IMQ 13.0006X issue No. 9  
 Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



Apparatus: EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...;  
 EBMS.....; NBU...

EBU...(axb); EBM.....(axb); EBMC..(axb); EBS..(axb); EBLs..  
 (axb); EBLQ..(axb); EBLN..(axb); EBMS.....(axb)

EBM....(axb); EBMS....(axb)				
Model		Sealing ring type (refer to table 6)	Suitable for	
			Ex db	Ex eb Ex tb
EBM 12.01..	EBMS 12.01..	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	no	yes
EBM 1.1..	EBMS 1.1..		no	yes
EBM 12.12..	EBMS 12.12..		no	yes
EBM 12.23..	EBMS 12.23..		no	yes
EBM 23.12..	EBMS 23.12..	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	no	yes
EBM 2.2..	EBMS 2.2..		no	yes
EBM 23.23..	EBMS 23.23..		no	yes
EBM 23.34..	EBMS 23.34..		no	yes

EBMC....(axb)			
Model	Sealing ring type (refer to table 6)	Suitable for	
		Ex db	Ex eb Ex tb
EBMC 1S..	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	no	yes
EBMC 1..		no	yes
EBMC 12..		no	yes
EBMC 2..	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	no	yes
EBMC 23..		no	yes

EBS....(axb)			
Model	Sealing ring type (refer to table 6)	Suitable for	
		Ex db	Ex eb Ex tb
EBS 1..	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	no	yes
EBS 2..	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	no	yes

Table 4.5:EBLN... (axb); EBLs... (axb); EBLQ... (axb)					
Model			Sealing ring type (refer to table 6)	Suitable for	
				Ex db	Ex eb Ex tb
EBLN 1S..	EBLS 1S..	EBLQ 1S..	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	no	yes
EBLN 1..	EBLS 1..	EBLQ 1..		no	yes
EBLN 2..	EBLS 2..	EBLQ 2..	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	no	yes

Table 5: BDP-.-21			
From size ...	... to size	Material	Mechanical risk
M12/PG7/PF 1/4" / NPT1/4"	M32/PG21/PF 1" / NPT 1"	polyamide	High (7J)
M32/PG21/PF 1" / NPT 1"	M63/PG48/PF 2" / NPT 2"		High (7J) at T≥-40°C Low (4J) at T<-40°C

**Annex to:** IECEx IMQ 13.0006X issue No. 9  
**Applicant:** Bimed Teknik Aletler San. Ve Tic. A.Ş.



**Apparatus:** EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...; EBMS.....; NBU...  
 EBU...(axb); EBM.....(axb); EBMC... (axb); EBS... (axb); EBLs.. (axb); EBLQ.. (axb); EBLN.. (axb); EBMS.....(axb)

Key code:

EBU	1	2	3	4	5	6	7	1	Table 1 . Model codes corresponding to thread type and sizes (according to thread sizes allowed for each cable glands model reported in tables from page 18)
EBMC	1	3	4	5	6	7		2	Optional
									Blank : standard features
									2 or 3 or 4 or 5 or 6 : larger clamping range
									or 7 or 8 or 10
									XS or S : reduced clamping range (XS used only for M115)
EBS	1	2	3	4	5	6	7	3	Pitch (for Metric thread only)
EBLS	1	3	4	5	6	7			Blank : 1,25 pitch (for only M8)
EBLQ	1	3	4	5	6	7			Blank : 1,5 pitch (from M12 to M100, excluded M115 and M130)
EBLN	1	3	4	5	6	7			Blank : 2,0 pitch (only for M115 and M130)
NBU	1	3	4	5	6	7			2 : 2,0 pitch (for M63,M75, M80, M90, M100 only)
								4	Thread type
									"N" : NPT ANSI ASME B1.20.1
									"M" : Metric ISO pitch 1,5 (ISO 965/1 and ISO 965/3)
									"P" : PG DIN 40430 (Ex e only)
									"S" : N.P.S.M.
									"C" : GAS UNI ISO 228/1
									"G" : GAS ISO 7/1
									"K" : GAS Gk UNI 6125 (for Ex e only)
								5	Body material
									"B" : brass
									"X" : stainless steel
									"A" : aluminium
									"BN" : nickel plated brass
									"Z" : galvanized steel
								6	Sealing material
									"C" : Chloroprene
									"S" : Silicone
								7	Flat washer material
									Blank : None
									"WC" : Chloroprene
									"WE" : EPDM
									"WS" : Silicone
									"WP" : Polyamide
									"WF" : Fiber
								8	Sealing hole type
									Blank : Circular sealing ring hole dimensions
									(axb) : Flat sealing ring hole dimensions

Note: Only for EBU: This key code does not apply for EBU 82M (M80x2) and EBU 82LM (M90x2).

Annex to: IECEx IMQ 13.0006X issue No. 9  
Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



Apparatus: EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...;  
EBMS.....; NBU...  
EBU...(axb); EBM.....(axb); EBMC... (axb); EBS... (axb); EBLs..  
(axb); EBLQ... (axb); EBLN.. (axb); EBMS.....(axb)

Table 1 . Model codes corresponding to thread type and sizes						
Code	Metric	NPT	PG	NPSM	GAS ISO 7/1	Gk
0XS	M8	-	-	-	-	-
0	M12	¼"	-	¼"	¼"	¼"
1	M16	3/8"	-	3/8"	3/8"	3/8"
1	M20	½"	PG7	½"	½"	½"
2	M25	¾"	PG9	¾"	¾"	¾"
3	M32	1"	PG11	1"	1"	1"
4	M40	1 ¼"	PG13,5	1 ¼"	1 ¼"	1 ¼"
5	M50	1 ½"	PG16	1 ½"	1 ½"	1 ½"
6	M63	2"	PG21	2"	2"	2"
7	M75	2 ¼"	PG29	2 ¼"	2 ¼"	2 ¼"
80	M80	--	--	--	--	--
8	M90	3"	PG36	3"	3"	3"
9	-	-	PG42	-	-	-
10	M100	4"	PG48	4"	4"	4"
11	M110	4"	-	4"	4"	4"
115	M115	4"	-	4"	4"	4"
13	M130	5"	-	5"	5"	5"

Annex to: IECEx IMQ 13.0006X issue No. 9  
 Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



Apparatus: EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...;  
 EBMS.....; NBU...  
 EBU...(axb); EBM.....(axb); EBMC..(axb); EBS..(axb); EBLs..  
 (axb); EBLQ..(axb); EBLN..(axb); EBMS.....(axb)

<p>EBM 1 2 3 4 5 6 7 8</p> <p>EBMS 1 2 3 4 5 6 7 8</p>	<p>1 Male sizes according to Table 1 . Model codes corresponding to thread type and sizes (according to thread sizes allowed for each cable glands model reported in tables from page 18)</p> <p>2 Male thread type "N" : NPT ANSI ASME B1.20.1 "M" : Metric ISO pitch 1,5 (ISO 965/1 and ISO 965/3)</p> <p>3 Female sizes according to Table 1 . Model codes corresponding to thread type and sizes (according to thread sizes allowed for each cable glands model reported in tables from page 18)</p> <p>4 Female thread type: "N" : NPT ANSI ASME B1.20.1 "M" : Metric ISO pitch 1,5 (ISO 965/1 and ISO 965/3)</p> <p>5 Body material "B" : brass "X" : stainless steel "A" : aluminium "BN" : nickel plated brass "Z" : galvanized steel</p> <p>6 Sealing material "C" : Chloroprene "S" : Silicone</p> <p>7 Flat washer material Blank : None "WC" : Chloroprene "WE" : EPDM "WS" : Silicone "WP" : Polyamide "WF" : Fiber</p> <p>8 Sealing hole type Blank : Circular sealing ring hole dimensions (axb) flat sealing ring hole dimensions (axb) : Flat sealing ring hole dimensions</p>
<p>BDPX 1 2 2 3</p>	<p>1 Blank : Black colour "B" : Blue colour "G" : Green colour</p> <p>2 : size and dimensions (example ; 15-21)</p> <p>3 : Plug size (example M16)</p>

**Annex to:** IECEx IMQ 13.0006X issue No. 9  
**Applicant:** Bimed Teknik Aletler San. Ve Tic. A.Ş.



**Apparatus:** EBU...; EBM.....; EBMC...; EBS...; EBLs...; EBLQ...; EBLN...;  
EBMS.....; NBU...  
EBU...(axb); EBM.....(axb); EBMC.. .(axb); EBS.. .(axb); EBLs..  
. (axb); EBLQ.. .(axb); EBLN.. .(axb); EBMS.....(axb)

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### Specific conditions of Use:

- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
- The coupling of the cable glands to the enclosure and torque values of cap clamping shall be made as indicated by the manufacturer in the documents annexed to this certificate in order to respect the type of protection of the electrical apparatus on which cable glands are mounted.
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- The cable gland installation shall be done in such a way that the temperature at the mounting point will remain within the service temperature ranges declared in this certificate.
- When cable glands are installed with polyamide insert BDPX.-.-., mechanical risk have to be taken into account, depending on cable gland and insert tap. The upper operating temperature is limited to 70 °C. When insert tap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only). Precautions shall be taken in order to guarantee protection against risk of mechanical damage is provided, when insert taps are suitable for low mechanical risk (4J).
- Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to manufacturer's instruction.
- The cable glands in metric threads can be produced with TL9,0mm for Ex eb and Ex tb only.  
In order to guarantee Ex tb type of protection in installation, external Oring or Gasket shall be mounted. For nonthreaded enclosure, the locknut shall be fully engaged
- The minimum wall thickness shall be 1,5 mm for non threaded enclosures.