



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx IMQ 13.0006X Issue No: 1 Certificate history:
Status: **Current** Page 1 of 4 [Issue No. 1 \(2014-09-09\)](#)
Date of Issue: **2014-09-09** [Issue No. 0 \(2013-11-15\)](#)

Applicant: **Bimed Teknik Aletler San ve Tic. A.S.**
S.S Bakır ve Piriç Sanayi Sitesi Leylak Caddesi No:15 Beylikdüzü
Istanbul
Turkey

Electrical Apparatus: **Metal cable glands for circular cables series EBU...; EBM.....; EBMC...;
EBS...; EBLs...; EBLQ...; EBLN...; EBMS.....; NBU...**

Optional accessory:

Type of Protection: **Ex d; Ex e; Ex tb**

Marking:
Ex d IIC Gb
Ex e IIC Gb
Ex tb IIIC Db IP66/68

*Approved for issue on behalf of the IECEx
Certification Body:*

Mr. Mauro CASARI

Position:

IMQ ExCB Manager

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

Istituto Italiano del Marchio di Qualità S.p.A
Via Quintiliano 43
20138 Milano,
Italy





IECEX Certificate of Conformity

Certificate No: IECEX IMQ 13.0006X Issue No: 1

Date of Issue: 2014-09-09 Page 2 of 4

Manufacturer: **Bimed Teknik Aletler San ve Tic. A.S.**
S.S Bakır ve Piriç Sanayi Sitesi Leylak Caddesi No:15 Beylikdüzü
Istanbul
Turkey

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/ExTR13.0006/01](#)

Quality Assessment Report:

[IT/CES/QAR12.0003/02](#)

[IT/CES/QAR12.0003/00](#)

[IT/CES/QAR12.0003/01](#)



IECEx Certificate of Conformity

Certificate No: IECEx IMQ 13.0006X

Issue No: 1

Date of Issue: 2014-09-09

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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

The cable glands series NBU... are suitable for inserting circular cables into Ex e 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). 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.

External o-ring made of: neoprene, silicone or EPDM rubber.

Flat washer made of: neoprene, silicone, EPDM rubber or fiber KLINGERSIL® C-4400 (-50+130 °C use only).

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 e, Ex d or type of protection Ex t (suitability for each models is shown in tables of narrative sections). Cable glands should be also used for intrinsically safe circuits Ex i. These cable glands shall have a light blue painted part.

CONDITIONS OF CERTIFICATION: YES as shown below:

The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting

The cable gland EBU 0XSM with the relevant cables shall be used where a protection against risk of mechanical damage is provided.

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.



IECEx Certificate of Conformity

Certificate No: IECEx IMQ 13.0006X

Issue No: 1

Date of Issue: 2014-09-09

Page 4 of 4

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

Variation 1:

S 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.

Annex:

[IECEx IMQ 13.0006X issue No. 1 Annex.pdf](#)

Annex to: IECEx IMQ 13.0006X issue No. 1
Applicant: Bimed Teknik Aletler San ve Tic. A.S.
Apparatus: EBU...; EBM.....; EBMC...; EBS...; EBLs...;
 EBLQ...; EBLN...; EBMS.....; NBU...



General description

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

The cable glands series NBU... are suitable for inserting circular cables into Ex e 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). 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 e, Ex d or type of protection Ex t, suitability for each model is shown in following tables. Cable glands should be also used for intrinsically safe circuits Ex i. These cable glands shall have a light blue painted part.

Rated ambient temperature range (°C):

Serie:	Ex e – Ex tb execution	Ex d execution
EBU...	neoprene sealing ring: -40°C ÷ +80°C silicone sealing ring: -60°C ÷ +100°C Note: models EBU 01S.. has always temperature range of -40°C ÷ +80°C (neoprene sealing ring) and -60°C ÷ +80°C (silicone sealing ring)	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

Conditions of use

- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting
- The cable gland EBU 0XSM with the relevant cables shall be used where a protection against risk of mechanical damage is provided.
- 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.

Annex to: IECEx IMQ 13.0006X issue No. 1

Applicant: Bimed Teknik Aletler San ve Tic. A.S.



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

- 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.

Design options

Body made of materials: stainless steel or brass or aluminium alloy.

Sealing rings made of: neoprene or silicone for all series, except for NBU... in which sealing rings are made of EPDM rubber or silicone.

External o-ring made of: neoprene, silicone or EPDM rubber.

Flat washer made of: neoprene, silicone, EPDM rubber or fiber KLINGERSIL® C-4400 (-50÷130 °C use only).

Key code:

EBU	(1)	(2)	(3)	(1): size, according to related table
EBMC	(1)	(2)	(3)	(2): 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) "C" – GAS UNI ISO 228/1 "S" – N.P.S.M. "G" – GAS UNI ISO 7/1
EBS	(1)	(2)	(3)	
EBLS	(1)	(2)	(3)	
EBLQ	(1)	(2)	(3)	
EBLN	(1)	(2)	(3)	(3): body material: "B" – brass "X" – stainless steel "A" – aluminium
NBU	(1)	(2)	(3)	

EBM	(1)	(2)	(3)	(4)	(5)	(1): male size, according to related table (2): male thread type: "N" – NPT ANSI ASME B1.20.1 "M" – Metric ISO pitch 1,5 (EN 60423) (3): female size, according to related table (4): female thread type: "N" – NPT ANSI ASME B1.20.1 "M" – Metric ISO pitch 1,5 (EN 60423) (3): body material: "B" – brass "X" – stainless steel "A" – aluminium
EBMS	(1)	(2)	(3)	(4)	(5)	

Annex to: IECEx IMQ 13.0006X issue No. 1

Applicant: Bimed Teknik Aletler San ve Tic. A.S.



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

Cable gland sizes:

EBU ...						
Model	Min-max cable Ø mm	Torque value [Nm]			Suitable for	
		S1+S2+S3 triple sealing ring	S1+S2 double sealing ring	S1 single sealing ring	Ex d	Ex e Ex tb
EBU 0XS..	2-4	-	-	3,5	no	yes
EBU 0S..	4-8	20	18	-	no	yes
EBU01S..	3-9	-	25	18	yes	yes
EBU 01..	4-12	20	18	15	yes	yes
EBU 1..	4-12	20	18	15	yes	yes
EBU 12..	10-16	24	22	18	yes	yes
EBU 2..	10-18	25	22	18	yes	yes
EBU 23..	14-20	26	22	-	yes	yes
EBU 3..	14-24	28	23	20	yes	yes
EBU 34..	22-28	45	40	35	yes	yes
EBU 4..	22-32	56	50	45	yes	yes
EBU 45..	26-34	57	55	52	yes	yes
EBU 5..	26-35	57	55	52	yes	yes
EBU 56..	35-44	190	155	140	yes	yes
EBU 6..	35-45	190	155	140	yes	yes
EBU 67..	46-56	160	145	135	yes	yes
EBU 7..	46-62	185	175	150	yes	yes
EBU 78..	60-70	123	118	107	yes	yes
EBU 8..	60-70	123	118	107	yes	yes
EBU 810..	75-85	135	130	125	yes	yes
EBU 10..	75-85	135	130	125	yes	yes
EBU 11..	85-95	180	175	170	yes	yes

EBM; EBMS							
Model	Min-max cable Ø mm	Torque value [Nm]			Suitable for		
		S1+S2+S3 triple sealing ring	S1+S2 double sealing ring	S1 single sealing ring	Ex d	Ex e Ex tb	
EBM 0S.0S..	-	4-8	20	18	-	no	yes
EBM 0S.01..	-	4-8	20	18	-	no	yes
EBM 01.0S..	-	4-8	20	18	-	yes	yes
EBM 01.01..	EBMS 01.01..	4-12	20	18	15	yes	yes
EBM 01.12..	EBMS 01.12..	4-12	20	18	15	yes	yes
EBM 12.01..	EBMS 12.01..	4-12	24	22	18	yes	yes
EBM 1.1..	EBMS 1.1..	4-12	20	18	15	yes	yes
EBM 12.12..	EBMS 12.12..	10-16	24	22	18	yes	yes
EBM 12.23..	EBMS 12.23..	10-16	24	22	18	yes	yes
EBM 23.12..	EBMS 23.12..	10-16	26	22	18	yes	yes
EBM 2.2..	EBMS 2.2..	10-18	25	22	18	yes	yes
EBM 23.23..	EBMS 23.23..	14-20	26	22	-	yes	yes
EBM 23.34..	EBMS 23.34..	14-20	26	22	-	yes	yes
EBM 34.23..	EBMS 34.23..	14-20	45	40	-	yes	yes
EBM 3.3..	EBMS 3.3..	14-24	28	23	20	yes	yes
EBM 34.34..	EBMS 34.34..	22-28	45	40	35	yes	yes
EBM 34.45..	EBMS 34.45..	22-28	45	40	35	yes	yes
EBM 45.34..	EBMS 45.34..	22-28	57	55	52	yes	yes
EBM 4.4..	EBMS 4.4..	22-32	56	50	45	yes	yes
EBM 45.45..	EBMS 45.45..	26-34	57	55	52	yes	yes
EBM 45.56..	EBMS 45.56..	26-34	57	55	52	yes	yes
EBM 56.45..	EBMS 56.45..	26-34	130	125	120	yes	yes

Annex to: IECEx IMQ 13.0006X issue No. 1

Applicant: Bimed Teknik Aletler San ve Tic. A.S.



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

EBM; EBMS							
Model	Min-max cable Ø mm	Torque value [Nm]			Suitable for		
		S1+S2+S3 triple sealing ring	S1+S2 double sealing ring	S1 single sealing ring	Ex d	Ex e Ex tb	
EBM 5.5..	EBMS 5.5..	26-35	57	55	52	yes	yes
EBM 5.45..	EBMS 5.45..	26-34	57	55	52	yes	yes
EBM 56.56..	EBMS 56.56..	35-44	190	155	140	yes	yes
EBM 56.67..	EBMS 56.67..	35-44	190	155	140	yes	yes
EBM 67.56..	EBMS 67.56..	35-44	160	145	135	yes	yes
EBM 6.6..	EBMS 6.6..	35-45	190	155	140	yes	yes
EBM 67.67..	EBMS 67.67..	46-56	160	145	135	yes	yes
EBM 67.78..	EBMS 67.78..	46-56	160	145	135	yes	yes
EBM 78.67..	EBMS 78.67..	46-56	123	118	135	yes	yes
EBM 7.7..	EBMS 7.7..	46-62	185	175	150	yes	yes
EBM 78.78..	EBMS 78.78..	60-70	123	118	-	yes	yes
EBM 78.810..	EBMS 78.810..	60-70	123	118	-	yes	yes
EBM 810.78..	EBMS 810.78..	60-70	135	130	-	yes	yes
EBM 8.8..	EBMS 8.8..	60-75	123	118	107	yes	yes
EBM 810.810..	EBMS 810.810..	75-82	135	130	125	yes	yes
EBM 810.10..	EBMS 810.10..	75-82	135	130	125	yes	yes
EBM 11.810..	EBMS 11.810..	75-82	180	175	170	yes	yes
EBM 10.10..	EBMS 10.10..	75-85	135	130	125	yes	yes
EBM 10.810..	EBMS 10.810..	75-82	135	130	125	yes	yes
EBM 10.11..	EBMS 10.11..	75-85	135	130	125	yes	yes
EBM 11.10..	EBMS 11.10..	75-85	180	175	170	yes	yes
EBM 11.11..	EBMS 11.11..	85-95	180	175	170	yes	yes

EBMC ...						
Model	Min-max cable Ø mm	Torque value [Nm]			Suitable for	
		S1+S2+S3 triple sealing ring	S1+S2 double sealing ring	S1 single sealing ring	Ex d	Ex e Ex tb
EBMC 0S..	4-8	20	18	-	no	yes
EBMC 01..	4-12	20	18	15	yes	yes
EBMC 1..	4-12	20	18	15	yes	yes
EBMC 12..	10-16	24	22	18	yes	yes
EBMC 2..	10-18	25	22	18	yes	yes
EBMC 23..	14-20	26	22	-	yes	yes
EBMC 3..	14-24	28	23	20	yes	yes
EBMC 34..	22-28	45	40	35	yes	yes
EBMC 4..	22-32	56	50	45	yes	yes
EBMC 45..	26-34	57	55	52	yes	yes
EBMC 5..	26-35	57	55	52	yes	yes
EBMC 56..	35-44	190	155	140	yes	yes
EBMC 6..	35-45	190	155	140	yes	yes
EBMC 7..	46-59	185	175	150	yes	yes

EBS ...						
Model	Min-max cable Ø mm	Torque value [Nm]			Suitable for	
		S1+S2+S3 triple sealing ring	S1+S2 double sealing ring	S1 single sealing ring	Ex d	Ex e Ex tb
EBS 01.-S.	4-8	-	25	18	yes	yes
EBS 01..	4-8	-	18	15	yes	yes
EBS 1..	4-12	20	18	15	yes	yes
EBS 2..	10-18	25	22	18	yes	yes

Annex to: IECEx IMQ 13.0006X issue No. 1

Applicant: Bimed Teknik Aletler San ve Tic. A.S.

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



EBS ...						
EBS 3..	14-24	25	20	18	yes	yes
EBS 4..	22-32	56	50	45	yes	yes
EBS 5..	26-35	57	55	52	yes	yes

EBLN ...; EBSL ...; EBLQ ...								
Model			Min-max cable Ø mm	Torque value [Nm]			Suitable for	
				S1+S2+S3 triple sealing ring	S1+S2 double sealing ring	S1 single sealing ring	Ex d	Ex e Ex tb
EBLN 02..	EBLS 02..	EBLQ 02..	4-8	20	18	-	no	yes
EBLN 01..	EBLS 01..	EBLQ 01..	4-12	20	18	15	yes	yes
EBLN 1..	EBLS 1..	EBLQ 1..	4-12	20	18	15	yes	yes
EBLN 2..	EBLS 2..	EBLQ 2..	10-18	25	22	18	yes	yes
EBLN 3..	EBLS 3..	EBLQ 3..	14-24	28	23	20	yes	yes
EBLN 4..	EBLS 4..	EBLQ 4..	22-32	56	50	45	yes	yes
EBLN 5..	EBLS 5..	EBLQ 5..	26-35	57	55	52	yes	yes

NBU ...					
Model	Min-max cable Ø mm	Torque value [Nm]		Suitable for	
		S1+S2 double sealing ring	S1 single sealing ring	Ex d	Ex e Ex tb
NBU 0XS..	4-7	-	4	no	yes
NBU 01S..	5-8	-	8	no	yes
NBU 1..	8-14	10	10	no	yes
NBU 2..	10-16	12	12	no	yes
NBU 3..	16-21	13	13	no	yes
NBU 4..	18-27	25	25	no	yes
NBU 5..	26-35	33	33	no	yes
NBU 6..	32-49	45	35	no	yes