



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: 5

Certificate history:

Status: **Current**

Issue No. 5 (2019-02-19)

Issue No. 4 (2016-09-08)

Date of Issue: **2019-02-19**

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Issue No. 3 (2015-11-04)

Issue No. 2 (2014-12-15)

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

Issue No. 1 (2014-09-09)

Issue No. 0 (2013-11-15)

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

Approved for issue on behalf of the IECEx
Certification Body:

Mr. Mauro CASARI

Position:

IMQ ExCB Manager

Signature:
(for printed version)

Date:

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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](http://www.iecex.com).

Certificate issued by:

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





IECEx Certificate of Conformity

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Manufacturer: **Bimed Teknik Aletler San ve Tic. A.S.**
S.S Bakır ve Piriç Sanayi Sitesi Leylak Caddesi No:15 Beylikdüzü
İstanbul
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 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 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	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/ExTR13.0006/05](#)

Quality Assessment Report:

[IT/CES/QAR12.0003/04](#)

[IT/CES/QAR12.0003/05](#)



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Schedule

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 following tables. 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)

Proper details to the use on installation and use of cable glands are listed in Safety, Maintenance and Mounting Instructions (M01 rev. 4 dated 2018.04.18).

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.



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

IT/IMQ/ExTR13.0006/01

Standard updating to IEC 60079-0:2011, 6th Edition

Adding of mode of protection Ex d for types already included in IT/IMQ/ExTR13.0006/00: EBU... (from size EBU01.. to size EBU11..); EBM..... (from size EBM01.01... to size EBM11.11...); EBMC... (from size EBMC01.. to size EBMC7..); EBS... (all sizes); EBLs... (from size EBLs01.. to size EBLs5..); EBLQ... (from size EBLQ01.. to size EBLQ5..); EBLN... (from size EBLN01.. to size EBLN5..). 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.

IT/IMQ/ExTR13.0006/02

Details on dust tests added

IT/IMQ/ExTR13.0006/03

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

IT/IMQ/ExTR13.0006/04

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).

IT/IMQ/ExTR13.0006/05

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

Annex:

[IECEx IMQ 13.0006 X issue No. 5 Annex.pdf](#)

Annex to: IECEx IMQ 13.0006X issue No. 5
Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



Apparatus: EBU...; EBM.....; EBMCM...; EBS...; EBL...; EBLQ...; EBLN...;
EBMS.....; NBU...
EBU...(axb); EBM.....(axb); EBMCM...(axb); EBS...(axb); EBL...
.(axb); EBLQ...(axb); EBLN...(axb); EBMS.....(axb)

General description

The cable glands series EBU...; EBM.....; EBMCM...; 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); EBMCM...(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. 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 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, 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).

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. 5
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 2: Materials ¹					
Series	Body materials	Sealing rings material	Flat washer materials	O-ring	Accessories
EBU...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
EBM.....	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
EBMC...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
EBS...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
EBLS...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
EBLQ...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
EBLN...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
EBMS.....	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
NBU...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	EPDM rubber silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
EBU...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
EBM.....(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
EBMC...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
EBS...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
EBLS...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
EBLQ...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
EBLN...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
EBMS.....(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer

¹ Service temperature is related to material of sealing rings which cable glands body is made of, but can be additionally limited by material of flat washer/OR/accessories material temperature limitations: chloroprene (-40÷100 °C); silicone (-60÷180 °C); EPDM rubber (-40÷110 °C); KLINGERSIL® C-4400 fiber (-50÷130 °C); NBR (-40÷100 °C), PA (-60÷65 °C); Viton (-17÷210 °C). The use of these materials has to be taken into account in determination of lower and upper limit of service temperature of cable glands.

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 "K" – GAS Gk UNI 6125 (for Ex e only)
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 "BN" - Nickel Plated Brass "Z" - Galvanized Steel
NBU	(1)	(2)	(3)	

Annex to: IECEx IMQ 13.0006X issue No. 5
Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



Apparatus: EBU...; EBM.....; EBMCM...; EBS...; EBLM...; EBLQ...; EBLN...;
 EBMS.....; NBU...
 EBU...(axb); EBM.....(axb); EBMCM.. .(axb); EBS.. .(axb); EBLM..
 .(axb); EBLQ.. .(axb); EBLN.. .(axb); EBMS.....(axb)

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) (5): body material: "B" – brass "X" – stainless steel "A" – aluminium "BN" - Nickel Plated Brass "Z" - Galvanized Steel
EBMS	(1)	(2)	(3)	(4)	(5)	

EBU	(1)	(2)	(3)	(axb)	(1): size, according to related table (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 "K" – GAS Gk UNI 6125 (for Ex e only) (3): body material: "B" – brass "X" – stainless steel "A" – aluminium "BN" - Nickel Plated Brass "Z" - Galvanized Steel (axb): flat sealing ring hole dimensions
EBMC	(1)	(2)	(3)	(axb)	
EBS	(1)	(2)	(3)	(axb)	
EBLS	(1)	(2)	(3)	(axb)	
EBLQ	(1)	(2)	(3)	(axb)	
EBLN	(1)	(2)	(3)	(axb)	

EBM	(1)	(2)	(3)	(4)	(5)	(axb)	(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) (5): body material: "B" – brass "X" – stainless steel "A" – aluminium "BN" - Nickel Plated Brass "Z" - Galvanized Steel (axb): flat sealing ring hole dimensions
EBMS	(1)	(2)	(3)	(4)	(5)	(axb)	

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Apparatus: EBU...; EBM.....; EBMCM...; EBS...; EBL...; EBLQ...; EBLN...;
EBMS.....; NBU...
EBU...(axb); EBM.....(axb); EBMCM.. .(axb); EBS.. .(axb); EBL...
.(axb); EBLQ.. .(axb); EBLN.. .(axb); EBMS.....(axb)

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) only.
- Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to manufacturer's instruction.

Manufacturer's documentation:

Safety, maintenance and mounting instructions code MI01 Rev. 4 dated 2018-04-18.

Models sizes

Model	Min-max cable Ø mm	EBU ...*				
		Torque value [Nm]			Suitable for	
		S1+S2+S3 triple sealing ring	S1+S2 double sealing ring	S1 single sealing ring	Ex db	Ex eb Ex tb
EBU 0XS..	2-4	-	-	4	no	yes
EBU 0S..	4-8	20	18	-	no	yes
EBU 0..	3-8	-	25	18	yes	yes
EBU01S..	3-9	-	25	18	yes	yes
EBU 01..	4-12	20	18	16	yes	yes
EBU 1S..	3-9	-	25	18	yes	yes
EBU 1..	4-12	20	18	16	yes	yes
EBU 12..	10-16	25	22	18	yes	yes
EBU 2S..	4-12	20	18	16	yes	yes
EBU 2..	10-18	25	22	18	yes	yes
EBU 23..	14-20	28	23	-	yes	yes
EBU 3S..	10-18	25	22	18	yes	yes
EBU 3..	14-24	28	23	20	yes	yes
EBU 34..	22-28	56	50	35	yes	yes
EBU 4S..	14-24	28	23	20	yes	yes
EBU 4..	22-32	56	50	45	yes	yes
EBU 45..	26-34	57	55	52	yes	yes
EBU 5S..	22-32	56	50	45	yes	yes
EBU 5..	26-35	57	55	52	yes	yes
EBU 56..	35-44	190	155	140	yes	yes
EBU 6S..	26-35	57	55	52	yes	yes
EBU 6..	35-45	190	155	140	yes	yes
EBU 67..	46-56	160	145	135	yes	yes
EBU 7S..	35-45	190	155	140	yes	yes
EBU 7..	46-62	185	175	150	yes	yes

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Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



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

EBU ...*						
EBU 78..	60-69	123	118	-	yes	yes
EBU80..	60-71	123	118	110	yes	yes
EBU 82..	60-71	123	118	110	yes	yes
EBU 8S..	46-62	185	175	150	yes	yes
EBU 8..	60-75	123	118	110	yes	yes
EBU 810..	75-82	135	130	125	yes	yes
EBU 10S..	60-75	123	118	110	yes	yes
EBU 10..	75-85	135	130	125	yes	yes
EBU 11..	85-95	180	175	170	yes	yes
EBU 115XS..	75-85	135	130	125	yes	yes
EBU 115S..	85-95	180	175	170	yes	yes
EBU 115..	95-105	450	450	450	yes	yes
EBU 13..	105-115	526	500	535	yes	yes

* metric threads cable glands sizes are shown; models with other threads, as detailed in Key Code, are available. Full list is shown in drawings listed to Certificate

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 db	Ex eb 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	16	yes	yes
EBM 01.12..	EBMS 01.12..	4-12	20	18	16	yes	yes
EBM 12.01..	EBMS 12.01..	4-12	25	22	18	yes	yes
EBM 1.1..	EBMS 1.1..	4-12	20	18	16	yes	yes
EBM 12.12..	EBMS 12.12..	10-16	25	22	18	yes	yes
EBM 12.23..	EBMS 12.23..	10-16	25	22	18	yes	yes
EBM 23.12..	EBMS 23.12..	10-16	25	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	28	23	-	yes	yes
EBM 23.34..	EBMS 23.34..	14-20	28	23	-	yes	yes
EBM 34.23..	EBMS 34.23..	14-20	28	23	-	yes	yes
EBM 3.3..	EBMS 3.3..	14-24	28	23	20	yes	yes
EBM 34.34..	EBMS 34.34..	22-28	56	50	35	yes	yes
EBM 34.45..	EBMS 34.45..	22-28	56	50	35	yes	yes
EBM 45.34..	EBMS 45.34..	22-28	56	50	35	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 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	190	155	140	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	160	145	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 80.80..	EBMS 80.80..	60-71	135	130	125	yes	yes
EBM 82.82..	EBMS 82.82..	60-71	135	130	125	yes	yes
EBM 80.8..	EBMS 80.8..	60-71	135	130	125	yes	yes
EBM 82.8..	EBMS 82.8..	60-71	135	130	125	yes	yes
EBM 810.78..	EBMS 810.78..	60-70	135	130	-	yes	yes

Annex to: IECEx IMQ 13.0006X issue No. 5
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)

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 db	Ex eb Ex tb
EBM 8.8..	EBMS 8.8..	60-75	123	118	110	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 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 11.10..	EBMS 11.10..	75-85	135	130	125	yes	yes
EBM 11.11..	EBMS 11.11..	85-95	180	175	170	yes	yes

* metric threads cable glands sizes are shown; models with other threads, as detailed in Key Code, are available. Full list is shown in drawings listed to Certificate

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 db	Ex eb Ex tb
EBMC 0S..	4-8	20	18	-	no	yes
EBMC 01S..	3-9	-	25	18	yes	yes
EBMC 01..	4-12	20	18	16	yes	yes
EBMC 1S..	3-9	-	25	18	yes	yes
EBMC 1..	4-12	20	18	16	yes	yes
EBMC 12..	10-16	25	22	18	yes	yes
EBMC 2..	10-18	25	22	18	yes	yes
EBMC 23..	14-20	28	23	-	yes	yes
EBMC 3..	14-24	28	23	20	yes	yes
EBMC 34..	22-28	56	50	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 db	Ex eb Ex tb
EBS 01S..	4-8	-	25	18	yes	yes
EBS 01..	4-8	-	25	18	yes	yes
EBS 1..	4-12	20	18	16	yes	yes
EBS 2..	10-18	25	22	18	yes	yes
EBS 3..	14-24	28	23	20	yes	yes
EBS 4..	22-32	56	50	45	yes	yes
EBS 5..	26-35	57	55	52	yes	yes
EBS 6..	35-45	190	155	140	yes	yes
EBS 7..	46-62	185	175	150	yes	yes
EBS 8..	60-75	123	118	110	yes	yes
EBS 10..	75-85	135	130	125	yes	yes
EBS 11..	85-95	180	175	170	yes	yes

Annex to: IECEx IMQ 13.0006X issue No. 5
Applicant: Bimed Teknik Aletler San. Ve Tic. A.Ş.



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

EBLN ...; EBLN ...; 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 db	Ex eb Ex tb
EBLN 02..	EBLN 02..	EBLQ 02..	4-8	20	18	-	no	yes
EBLN 01..	EBLN 01..	EBLQ 01..	4-12	20	18	16	yes	yes
EBLN 1S..	EBLN 1S..	EBLQ 1S..	4-10	20	18	15	yes	yes
EBLN 1..	EBLN 1..	EBLQ 1..	4-12	20	18	15	yes	yes
EBLN 2..	EBLN 2..	EBLQ 2..	10-18	25	22	18	yes	yes
EBLN 3..	EBLN 3..	EBLQ 3..	14-24	28	23	20	yes	yes
EBLN 4..	EBLN 4..	EBLQ 4..	22-32	56	50	45	yes	yes
EBLN 5..	EBLN 5..	EBLQ 5..	26-35	57	55	52	yes	yes

* metric threads cable glands sizes are shown; models with other threads, as detailed in Key Code, are available. Full list is shown in drawings listed to Certificate

NBU ...*					
Model	Min-max cable Ø mm	Torque value [Nm]		Suitable for	
		S1+S2 double sealing ring	S1 single sealing ring	Ex db	Ex eb 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

EBU ... (axb)*				
Model	Sealing ring type (refer to table 6)	Torque value [Nm]	Suitable for	
			Ex db	Ex eb Ex tb
EBU 1S..(axb)	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	16	no	yes
EBU 1..(axb)		16	no	yes
EBU 12..(axb)		16	no	yes
EBU 2..(axb)	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	18	no	yes
EBU 23..(axb)		18	no	yes

EBM ... (axb); EBMS ... (axb)*					
Model		Sealing ring type (refer to table 6)	Torque value [Nm]	Suitable for	
				Ex db	Ex eb Ex tb
EBM 12.01..(axb)	EBMS 12.01..(axb)	FxA1; FxB1; FxC1; FxD1; FxG1	16	no	yes
EBM 1.1..(axb)	EBMS 1.1..(axb)		16	no	yes
EBM 12.12..(axb)	EBMS 12.12..(axb)		16	no	yes
EBM 12.23..(axb)	EBMS 12.23..(axb)		16	no	yes
EBM 23.12..(axb)	EBMS 23.12..(axb)	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	18	no	yes
EBM 2.2..(axb)	EBMS 2.2..(axb)		18	no	yes
EBM 23.23..(axb)	EBMS 23.23..(axb)		18	no	yes
EBM 23.34..(axb)	EBMS 23.34..(axb)		18	no	yes

Annex to: IECEx IMQ 13.0006X issue No. 5
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)

EBMC ...(axb)*				
Model	Sealing ring type (refer to table 6)	Torque value [Nm]	Suitable for	
			Ex db	Ex eb Ex tb
EBMC 1S...(axb)	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	16	no	yes
EBMC 1...(axb)		16	no	yes
EBMC 12...(axb)		16	no	yes
EBMC 2...(axb)	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	18	no	yes
EBMC 23...(axb)		18	no	yes

* metric threads cable glands sizes are shown; models with other threads, as detailed in Key Code, are available. Full list is shown in drawings listed to Certificate

EBS ...(axb)*				
Model	Sealing ring type (refer to table 6)	Torque value [Nm]	Suitable for	
			Ex db	Ex eb Ex tb
EBS 1...(axb)	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	16	no	yes
EBS 2...(axb)	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	18	no	yes

EBLN ...(axb); EBLs ...(axb); EBLQ ...(axb)*						
Model			Sealing ring type (refer to table 6)	Torque value [Nm]	Suitable for	
					Ex db	Ex eb Ex tb
EBLN 1S...(axb)	EBLS 1S...(axb)	EBLQ 1S...(axb)	FxA1; FxB1; FxC1; FxD1;	16	no	yes
EBLN 1...(axb)	EBLS 1...(axb)	EBLQ 1...(axb)	FxE1; FxG1	16	no	yes
EBLN 2...(axb)	EBLS 2...(axb)	EBLQ 2...(axb)	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	18	no	yes

BDPX...-			
From size ...	... to size	Material	Mechanical risk
M12/PG7/PF 1/4" / NPT 1/4"	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 $\geq$ -40°C Low (4J) at T<-40°C

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	6,5 x 10	6,8 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

* metric threads cable glands sizes are shown; models with other threads, as detailed in Key Code, are available. Full list is shown in drawings listed to Certificate