IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Status: **Current**

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Applicant: **Bimed Teknik Aletler Sanayi Ve Ticaret A.Ş.**
ÖZ-AR SANAYİ BÖLGESİ, Deliklikaya Mah. Yüzbaşı Mehmet Hilmi Cad. Dış kapı No: 28 İç Kapı No: 1 Arnavutköy
Istanbul 34555
Türkiye

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

Certificate history:

Issue 10 (2026-02-10)
Issue 9 (2022-04-22)
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)

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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Certificate issued by:

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

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Manufacturer: **Bimed Teknik Aletler Sanayi Ve Ticaret A.Ş.**
ÖZ-AR SANAYİ BÖLGESİ, Deliklikaya Mah. Yüzbaşı Mehmet Hilmi Cad. Dış kapı No: 28 İç Kapı No: 1 Arnavutköy
Istanbul 34555
Türkiye

Manufacturing locations: **Bimed Teknik Aletler Sanayi Ve Ticaret A.Ş.**
ÖZ-AR SANAYİ BÖLGESİ, Deliklikaya Mah. Yüzbaşı Mehmet Hilmi Cad. Dış kapı No: 28 İç Kapı No: 1 Arnavutköy
Istanbul 34555
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 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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/ExTR13.0006/11

Quality Assessment Report:

IT/CES/QAR12.0003/13

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The cable glands series EBU...; EBUDC…; 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 (aluminum; 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 Annex. 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 IEC/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 colour), 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).

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 EBUDC…; 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.

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.

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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.

Issue 10:
Introduction of a new series EBUDC;
Applicant and manufacturer Address change;
Standards update (IEC 60079-31:2022).

Issue 11:
Update to the tightening torque for triple-seal cable glands with 14-17 mm clamping range, Ex db execution

Annex:

IECEx IMQ 13.0006 X Is.11 Annex - Final.pdf

General description

The cable glands series EBU...; EBUDC…; 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 (aluminum; 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 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 colour), 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).

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 EBUDC…; 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…..		
EBUDC…	silicone sealing ring: -60°C ÷ +80°C	silicone sealing ring: -60°C ÷ +80°C
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)		

Table 2: Materials [1]

Series	Body materials	Sealing rings Material [2]	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
EBUDC…	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	silicone	silicone
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
EBLS...	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
EBLS...(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

[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 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 considered in derermination of lower and upper limit of service temperature of cable glands.

[2] For EBUDC… only, the sealing ring materiali s identical to the O-ring seal material.

Models:

Type	Code	TD ISO 965-3	D Clamping Range Ø min-max	S1+S2+S3	S1+S2	S1	Torque S1+S2+S3 [Nm]	Torque S1+S2 [Nm]	Torque S1 [Nm]
EBU	0XSM	M8x1.25	2,0-4,0	-	-	2-4	-	-	4
EBU	0SM	M12x1.5	4,0-8,0	4-6	6-8	-	20	18	-
EBU	0M	M12x1.5	3,0-8,0	-	3-6	6-8	-	25	18
EBU	01SM	M16x1.5	3,0-9,0	-	3-6	6-9	-	25	18
EBU	01M	M16x1.5	4,0-12,0	4-6	6-9	9-12	20	18	16
EBU	1SM	M20x1.5	3,0-9,0	-	3-6	6-9	-	25	18
EBU	1M	M20x1.5	4,0-12,0	4-6	6-9	9-12	20	18	16
EBU	12M	M20x1.5	10,0-16,0	10-12	12-14,5	14,5-16	25	22	18
EBU	2SM	M25x1.5	4,0-12,0	4-6	6-9	9-12	20	18	16
EBU	2M	M25x1.5	10,0-18,0	10-12	12-14,5	14,5-18	25	22	18
EBU	23M	M25x1.5	14,0-20,0	14-17	17-20	-	35	23	-
EBU	3SM	M32x1.5	10,0-18,0	10-12	12-14,5	14,5-18	25	22	18
EBU	3M	M32x1.5	14,0-24,0	14-17	17-20	20-24	35	23	20
EBU	34M	M32x1.5	22,0-28,0	22-24	24-27	27-28	56	50	35
EBU	4SM	M40x1.5	14,0-24,0	14-17	17-20	20-24	35	23	20
EBU	4M	M40x1.5	22,0-32,0	22-24	24-27	27-32	56	50	45
EBU	45M	M40x1.5	26,0-34,0	26-28	28-31	31-34	57	55	52
EBU	5SM	M50x1.5	22,0-32,0	22-24	24-27	27-32	56	50	45
EBU	5M	M50x1.5	26,0-35,0	26-28	28-31	31-35	57	55	52
EBU	56M	M50x1.5	35,0-44,0	35-38	38-41	41-44	190	155	140
EBU	6SM	M63x1.5	26,0-35,0	26-28	28-31	31-35	57	55	52
EBU	6S2M	M63x2.0	26,0-35,0	26-28	28-31	31-35	57	55	52
EBU	6M	M63x1.5	35,0-45,0	35-38	38-41	41-45	190	155	140
EBU	62M	M63x2.0	35,0-45,0	35-38	38-41	41-45	190	155	140
EBU	67SM	M63x1.5	42,0-56,0	42-48	48-52	52-56	130	145	135
EBU	67S2M	M63x2.0	42,0-56,0	42-48	48-52	52-56	130	145	135
EBU	67M	M63x1.5	46,0-56,0	46-48	48-52	52-56	160	145	135
EBU	672M	M63x2.0	46,0-56,0	46-48	48-52	52-45	160	145	135
EBU	7SM	M75x1.5	35,0-45,0	35-38	38-41	41-45	190	155	140
EBU	7S2M	M75x2.0	35,0-45,0	35-38	38-41	41-45	190	155	140
EBU	7M	M75x1.5	46,0-62,0	46-51	51-56	56-62	185	175	150
EBU	72M	M75x2.0	46,0-62,0	46-51	51-56	56-62	185	175	150
EBU	78M	M75x1.5	60,0-69,0	60-65	65-69	-	123	118	-
EBU	782M	M75x2.0	60,0-69,0	60-65	65-69	-	123	118	-
EBU	80M	M80x1.5	60,0-71,0	60-65	65-70	70-71	123	118	110
EBU	82M	M80x2.0	60,0-71,0	60-65	65-70	70-71	123	118	110
EBU	8SM	M90x1.5	46,0-62,0	46-51	51-56	56-62	185	175	150
EBU	8S2M	M90x2.0	46,0-62,0	46-51	51-56	56-62	185	175	150
EBU	8M	M90x1.5	60,0-75,0	60-65	65-70	70-75	123	118	110
EBU	82LM	M90x2.0	60,0-75,0	60-65	65-70	70-75	123	118	110
EBU	810M	M90x1.5	75,0-82,0	75-78	78-81	81-82	135	130	125
EBU	8102M	M90x2.0	75,0-82,0	75-78	78-81	81-82	135	130	125
EBU	10SM	M100x1.5	60,0-75,0	60-65	65-70	70-75	123	118	110
EBU	10S2M	M100x2.0	60,0-75,0	60-65	65-70	70-75	123	118	110
EBU	10M	M100x1.5	75,0-85,0	75-78	78-81	81-85	135	130	125
EBU	102M	M100x2.0	75,0-85,0	75-78	78-81	81-85	135	130	125
EBU	11M	M110x1.5	85,0-95,0	85-88	88-91	91-95	180	175	170
EBU	112M	M110x2.0	85,0-95,0	85-88	88-91	91-95	180	175	170
EBU	115XSM	M115x2.0	75,0-85,0	75-78	78-81	81-85	135	130	125
EBU	115SM	M115x2.0	85,0-95,0	85-88	88-91	91-95	180	175	170
EBU	115M	M115x2.0	95,0-105,0	95-98	98-101	101-105	450	450	450
EBU	13M	M130x2.0	105,0-115,0	105-108	108-111	111-115	526	500	535

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

Type	TD ISO pitch 1,5	D Clamping Range Ø min.-max.	S1+S2+S3	S1+S2	S1	Torque S1+S2+S3 [Nm]	Torque S1+S2 [Nm]	Torque S1 [Nm]
EBMC	0SM (M12)	4-8	4-6	6-8	-	20	18	-
EBMC	01SM(M16)	3-9	-	3-6	6-9	-	25	18
EBMC	01M (M16)	4-12	4-6	6-9	9-12	20	18	16
EBMC	1SM(M20)	3-9	-	3-6	6-9	-	25	18
EBMC	1M (M20)	4-12	4-6	6-9	9-12	20	18	16
EBMC	12M (M20)	10-16	10-12	12-14,5	14,5-16	25	22	18
EBMC	2M (M25)	10-18	10-12	12-14,5	14,5-18	25	22	18
EBMC	23M (M25)	14-20	14-17	17-20	-	35	23	-
EBMC	3M (M32)	14-24	14-17	17-20	20-24	35	23	20
EBMC	34M (M32)	22-28	22-24	24-27	27-28	56	50	35
EBMC	4M (M40)	22-32	22-24	24-27	27-32	56	50	45
EBMC	45M (M40)	26-34	26-28	28-31	31-34	57	55	52
EBMC	5M (M50)	26-35	26-28	28-31	31-35	57	55	52
EBMC	56M (M50)	35-44	35-38	38-41	41-44	190	155	140
EBMC	6M (M63)	35-45	35-38	38-41	41-45	190	155	140
EBMC	7M (M75)	46-59	46-51	51-56	56-59	185	175	150

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	Torque S1+S2+S3 [Nm]	Torque S1+S2 [Nm]	Torque S1 [Nm]	Suitable for Ex db	Suitable for Ex eb Ex tb
EBS	01SM	M16x1.5	4,0-8,0	-	4-6	6-8	-	25	18	yes	yes
EBS	01M	M16x1.5	4,0-8,0	-	4-6	6-8	-	25	18	yes	yes
EBS	1M	M20x1.5	4,0-12,0	4-6	6-9	9-12	20	18	16	yes	yes
EBS	2M	M25x1.5	10,0-18,0	10-12	12-14,5	14,5-18	25	22	18	yes	yes
EBS	3M	M32x1.5	14,0-24,0	14-17	17-20	20-24	35	23	20	yes	yes
EBS	4M	M40x1.5	22,0-32,0	22-24	24-27	27-32	56	50	45	yes	yes
EBS	5M	M50x1.5	26,0-35,0	26-28	28-31	31-35	57	55	52	yes	yes
EBS	6M	M63x1.5	35,0-45,0	35-38	38-41	41-45	190	155	140	yes	yes
EBS	62M	M63x2.0	35,0-45,0	35-38	38-41	41-45	190	155	140	yes	yes
EBS	7M	M75x1.5	46,0-62,0	46-51	51-56	56-62	185	175	150	yes	yes
EBS	72M	M75x2.0	46,0-62,0	46-51	51-56	56-62	185	175	150	yes	yes
EBS	8M	M90x1.5	60,0-75,0	60-65	65-70	70-75	123	118	110	yes	yes
EBS	82M	M90x2.0	60,0-75,0	60-65	65-70	70-75	123	118	110	yes	yes
EBS	10M	M100x1.5	75,0-85,0	75-78	78-81	81-85	135	130	125	yes	yes
EBS	102M	M100x2.0	75,0-85,0	75-78	78-81	81-85	135	130	125	yes	yes
EBS	11M	M110x1.5	85,0-95,0	85-88	88-91	91-95	180	175	170	yes	yes
EBS	112M	M110x2.0	85,0-95,0	85-88	88-91	91-95	180	175	170	yes	yes

Type	TDM	TDF	D Clamping Range Ø		S1+S2+S3	S1+S2	S1	Torque (Nm)		
			min.	max.				(S1+S2+S3)	(S1+S2)	(S1)
EBM 0SM 0SM	M12	M12	4	8	4-6	6-8	-	20	18	-
EBM 0SM 01M	M12	M16	4	8	4-6	6-8	-	20	18	-
EBM 01M 0SM	M16	M12	4	10	4-6	6-9	9-10	20	18	16
EBM 01M 01M	M16	M16	4	12	4-6	6-9	9-12	20	18	16
EBM 01M 12M	M16	M20	4	12	4-6	6-9	9-12	20	18	16
EBM 12M 01M	M20	M16	4	12	4-6	6-9	9-12	20	18	16
EBM 1M 1M	M20K	M20K	4	12	4-6	6-9	9-12	20	18	16
EBM 12M 12M	M20	M20	10	16	10-12	12-14,5	14,5-16	25	22	18
EBM 12M 23M	M20	M25	10	16	10-12	12-14,5	14,5-16	25	22	18
EBM 23M 12M	M25	M20	10	16	10-12	12-14,5	14,5-16	25	22	18
EBM 2M 2M	M25K	M25K	10	18	10-12	12-14,5	14,5-18	25	22	18
EBM 23M 23M	M25	M25	14	20	14-17	17-20	-	35	23	-
EBM 23M 34M	M25	M32	14	20	14-17	17-20	-	35	23	-
EBM 34M 23M	M32	M25	14	20	14-17	17-20	-	35	23	-
EBM 3M 3M	M32K	M32K	14	24	14-17	17-20	20-24	35	23	20
EBM 34M 34M	M32	M32	22	28	22-24	24-27	27-28	56	50	35
EBM 34M 45M	M32	M40	22	28	22-24	24-27	27-28	56	50	35
EBM 45M 34M	M40	M32	22	28	22-24	24-27	27-28	56	50	35
EBM 4M 4M	M40K	M40K	22	32	22-24	24-27	27-32	56	50	45
EBM 45M 45M	M40	M40	26	34	26-28	28-31	31-34	57	55	52
EBM 45M 56M	M40	M50	26	34	26-28	28-31	31-34	57	55	52
EBM 5M 45M	M50K	M40	26	34	26-28	28-31	31-34	57	55	52
EBM 5M 5M	M50K	M50K	26	35	26-28	28-31	31-35	57	55	52
EBM 56M 56M	M50	M50	35	44	35-38	38-41	41-44	190	155	140
EBM 56M 67M	M50	M63	35	44	35-38	38-41	41-44	190	155	140
EBM 67M 56M	M63	M50	35	44	35-38	38-41	41-44	190	155	140
EBM 6M 6M	M63K	M63K	35	45	35-38	38-41	41-45	190	155	140
EBM 67M 67M	M63	M63	46	56	46-48	48-52	52-56	160	145	135
EBM 67M 78M	M63	M75	46	56	46-48	48-52	52-56	160	145	135
EBM 78M 67M	M75	M63	46	56	46-48	48-52	52-56	160	145	135
EBM 7M 7M	M75K	M75K	46	62	46-51	51-56	56-62	185	175	150
EBM 78M 78M	M75	M75	60	69	60-65	65-69	-	123	118	-
EBM 78M 810M	M75	M90	60	69	60-65	65-69	-	123	118	-
EBM 810M 78M	M90	M75	60	69	60-65	65-69	-	123	118	-
EBM 8M 8M	M90K	M90K	60	75	60-65	65-70	70-75	123	118	110
EBM 810M 810M	M90	M90	75	82	75-78	78-81	81-82	135	130	125
EBM 810M 10M	M90	M100	75	82	75-78	78-81	81-82	135	130	125
EBM 10M 810M	M100	M90	75	82	75-78	78-81	81-82	135	130	125
EBM 10M 10M	M100	M100	75	85	75-78	78-81	81-85	135	130	125
EBM 11M 10M	M110	M100	75	85	75-78	78-81	81-85	135	130	125
EBM 11M 11M	M110	M110	85	95	85-89	89-92	92-95	180	175	170

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

Type	TD ISO Pitch 1,5	D Clamping Range Ø min.-max.	S1+S2+S3	S1+S2	S1	Torque S1+S2+S3 [Nm]	Torque S1+S2 [Nm]	Torque S1 [Nm]
EBLN	02M (M12)	4,0-8,0	4-6	6-8	-	20	18	-
EBLN	01M (M16)	4,0-12,0	4-6	6-9	9-12	20	18	16
EBLN	1SM (3/8") (M20)	4,0-10,0	4-6	6-9	9-10	20	18	16
EBLN	1M (M20)	4,0-12,0	4-6	6-9	9-12	20	18	16
EBLN	2M (M25)	10,0-18,0	10-12	12-14,5	14,5-18	25	22	18
EBLN	3M (M32)	14,0-24,0	14-17	17-20	20-24	35	23	20
EBLN	4M (M40)	22,0-32,0	22-24	24-27	27-32	56	50	45
EBLN	5M (M50)	26,0-35,0	26-28	28-31	31-35	57	55	52

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

Type	TD ISO Pitch 1,5	D Clamping Range Ø min.-max.	S1+S2+S 3	S1+S2	S1	Torque S1+S2+S 3 [Nm]	Torque S1+S2 [Nm]	Torque S1 [Nm]
EBLS	02M (M12)	4,0-8,0	4-6	6-8	-	20	18	-
EBLS	01M (M16)	4,0-12,0	4-6	6-9	9-12	20	18	16
EBLS	1SM (3/8")(M20)	4,0-10,0	4-6	6-9	9-10	20	18	16
EBLS	1M (M20)	4,0-12,0	4-6	6-9	9-12	20	18	16
EBLS	2M (M25)	10,0-18,0	10-12	12-14,5	14,5-18	25	22	18
EBLS	3M (M32)	14,0-24,0	14-17	17-20	20-24	35	23	20
EBLS	4M (M40)	22,0-32,0	22-24	24-27	27-32	56	50	45
EBLS	5M (M50)	26,0-35,0	26-28	28-31	31-35	57	55	52

Note: EBLS02M is only for Ex eb, Ex tb applications.

Type	TD ISO Pitch 1,5	D Clamping Range Ø min.-max.	S1+S2+S 3	S1+S2	S1	Torque S1+S2+S 3 [Nm]	Torque S1+S2 [Nm]	Torque S1 [Nm]
EBLQ	02M (M12)	4,0-8,0	4-6	6-8	-	20	18	-
EBLQ	01M (M16)	4,0-12,0	4-6	6-9	9-12	20	18	16
EBLQ	1SM(3/8") (M20)	4,0-10,0	4-6	6-9	9-10	20	18	16
EBLQ	1M (M20)	4,0-12,0	4-6	6-9	9-12	20	18	16
EBLQ	2M (M25)	10,0-18,0	10-12	12-14,5	14,5-18	25	22	18
EBLQ	3M (M32)	14,0-24,0	14-17	17-20	20-24	35	23	20
EBLQ	4M (M40)	22,0-32,0	22-24	24-27	27-32	56	50	45
EBLQ	5M (M50)	26,0-35,0	26-28	28-31	31-35	57	55	52

Note: EBLQ02M is only for Ex eb, Ex tb applications.

Type		TDM	TDF	D Clamping Range Ø		S1+S2+S3	S1+S2	S1	Torque (Nm)		
				min.	max.				(S1+S2+S3)	(S1+S2)	(S1)
EBMS 01M	01M	M16	M16	4	12	4-6	6-9	9-12	20	18	16
EBMS 01M	12M	M16	M20	4	12	4-6	6-9	9-12	20	18	16
EBMS 12M	01M	M20	M16	4	12	4-6	6-9	9-12	20	18	16
EBMS 1M	1M	M20K	M20K	4	12	4-6	6-9	9-12	20	18	16
EBMS 12M	12M	M20	M20	10	16	10-12	12-14,5	14,5-16	25	22	18
EBMS 12M	23M	M20	M25	10	16	10-12	12-14,5	14,5-16	25	22	18
EBMS 23M	12M	M25	M20	10	16	10-12	12-14,5	14,5-16	25	22	18
EBMS 2M	2M	M25K	M25K	10	18	10-12	12-14,5	14,5-18	25	22	18
EBMS 23M	23M	M25	M25	14	20	14-17	17-20	-	35	23	-
EBMS 23M	34M	M25	M32	14	20	14-17	17-20	-	35	23	-
EBMS 34M	23M	M32	M25	14	20	14-17	17-20	-	35	23	-
EBMS 3M	3M	M32K	M32K	14	24	14-17	17-20	20-24	35	23	20
EBMS 34M	34M	M32	M32	22	28	22-24	24-27	27-28	56	50	35
EBMS 34M	45M	M32	M40	22	28	22-24	24-27	27-28	56	50	35
EBMS 45M	34M	M40	M32	22	28	22-24	24-27	27-28	56	50	35
EBMS 4M	4M	M40K	M40K	22	32	22-24	24-27	27-32	56	50	45
EBMS 45M	45M	M40	M40	26	34	26-28	28-31	31-34	57	55	52
EBMS 45M	56M	M40	M50	26	34	26-28	28-31	31-34	57	55	52
EBMS 56M	45M	M50	M40	26	34	26-28	28-31	31-34	57	55	52
EBMS 5M	5M	M50K	M50K	26	35	26-28	28-31	31-35	57	55	52
EBMS 56M	56M	M50	M50	35	44	35-38	38-41	41-44	190	155	140
EBMS 56M	67M	M50	M63	35	44	35-38	38-41	41-44	190	155	140
EBMS 67M	56M	M63	M50	35	44	35-38	38-41	41-44	190	155	140
EBMS 6M	6M	M63K	M63K	35	45	35-38	38-41	41-45	190	155	140
EBMS 67M	67M	M63	M63	46	56	46-48	48-52	52-56	160	145	135
EBMS 67M	78M	M63	M75	46	56	46-48	48-52	52-56	160	145	135
EBMS 78M	67M	M75	M63	46	56	46-48	48-52	52-56	160	145	135
EBMS 7M	7M	M75K	M75K	46	62	46-51	51-56	56-62	185	175	150
EBMS 78M	78M	M75	M75	60	69	60-65	65-69	-	123	118	-
EBMS 78M	810M	M75	M90	60	69	60-65	65-69	-	123	118	-
EBMS 810M	78M	M90	M75	60	69	60-65	65-69	-	123	118	-
EBMS 8M	8M	M90K	M90K	60	75	60-65	65-70	70-75	123	118	110
EBMS 810M	810M	M90	M90	75	82	75-78	78-81	81-82	135	130	125
EBMS 810M	10M	M90	M100	75	82	75-78	78-81	81-82	135	130	125
EBMS 10M	810M	M100	M90	75	85	75-78	78-81	81-85	135	130	125
EBMS 10M	10M	M100	M100	75	85	75-78	78-81	81-85	135	130	125
EBMS 10M	11M	M100	M110	75	85	75-78	78-81	81-85	135	130	125
EBMS 11M	10M	M110	M100	75	85	75-78	78-81	81-85	135	130	125
EBMS 11M	11M	M110	M110	85	95	85-89	89-92	92-95	180	175	170

Type	Code	TD ISO 965-3	Clamping Range		S1+S2+S3	S1+S2	S1	Torque of Cable Glands [Nm]			
			D2 Ø min.-max.	D1 (S1+S2+S3) Ø min.-max.				SW 3 (D2)	SW 2 (S1+S2+S3)	SW 2 (S1+S2)	SW 2 (S1)
EBUDC	01SM	M16x1.5	5,5 - 9,0	5,5 - 9,0	-	5,5 - 6,0	6,0 - 9,0	15	-	25	18
EBUDC	01M	M16x1.5	9,0 - 12,0	9,0 - 12,0	-	-	9,0 - 12,0	20	-	-	16
EBUDC	1SM	M20x1.5	5,5 - 9,0	5,5 - 9,0	-	5,5 - 6,0	6,0 - 9,0	15	-	25	18
EBUDC	1M	M20x1.5	9,0 - 12,0	9,0 - 12,0	-	-	9,0 - 12,0	20	-	-	16
EBUDC	12M	M20x1.5	12,0 - 16,0	12,0 - 16,0	-	12,0 - 14,5	14,5 - 16,0	20	-	22	18
EBUDC	2SM	M25x1.5	9,0 - 12,0	9,0 - 12,0	-	-	9,0 - 12,0	20	-	-	16
EBUDC	2M	M25x1.5	12,0 - 18,0	12,0 - 18,0	-	12,0 - 14,5	14,5 - 18,0	20	-	22	18
EBUDC	23M	M25x1.5	16,0 - 20,0	16,0 - 20,0	16,0 - 17,0	17,0 - 20,0	-	20	28	23	-
EBUDC	3SM	M32x1.5	12,0 - 18,0	12,0 - 18,0	-	12,0 - 14,5	14,5 - 18,0	20	-	22	18
EBUDC	3M	M32x1.5	16,0 - 24,0	16,0 - 24,0	16,0 - 17,0	17,0 - 20,0	20,0 - 24,0	20	28	23	20
EBUDC	34M	M32x1.5	22,0 - 28,0	22,0 - 28,0	22,0 - 24,0	24,0 - 27,0	27,0 - 28,0	25	56	50	35
EBUDC	4SM	M40x1.5	16,0 - 24,0	16,0 - 24,0	16,0 - 17,0	17,0 - 20,0	20,0 - 24,0	20	28	23	20
EBUDC	4M	M40x1.5	22,0 - 32,0	22,0 - 32,0	22,0 - 24,0	24,0 - 27,0	27,0 - 32,0	25	56	50	45
EBUDC	45M	M40x1.5	29,0 - 34,0	29,0 - 34,0	-	29,0 - 31,0	31,0 - 34,0	50	-	55	52
EBUDC	5SM	M50x1.5	22,0 - 32,0	22,0 - 32,0	22,0 - 24,0	24,0 - 27,0	27,0 - 32,0	25	56	50	45
EBUDC	5M	M50x1.5	29,0 - 35,0	29,0 - 35,0	-	29,0 - 31,0	31,0 - 35,0	50	-	55	52
EBUDC	55M	M50x1.5	35,0 - 41,0	35,0 - 41,0	35,0 - 38,0	38,0 - 41,0	-	55	190	155	-
EBUDC	56M	M50x1.5	36,0 - 44,0	36,0 - 44,0	36,0 - 38,0	38,0 - 41,0	41,0 - 44,0	55	190	155	140
EBUDC	6SM	M63x1.5	29,0 - 35,0	29,0 - 35,0	-	29,0 - 31,0	31,0 - 35,0	50	-	55	52
EBUDC	6S2M	M63x2.0	29,0 - 35,0	29,0 - 35,0	-	29,0 - 31,0	31,0 - 35,0	50	-	55	52
EBUDC	66SM	M63x1.5	35,0 - 41,0	35,0 - 41,0	35,0 - 38,0	38,0 - 41,0	-	55	190	155	-
EBUDC	6M	M63x1.5	36,0 - 45,0	36,0 - 45,0	36,0 - 38,0	38,0 - 41,0	41,0 - 45,0	55	190	155	140
EBUDC	66S2M	M63x2.0	35,0 - 41,0	35,0 - 41,0	35,0 - 38,0	38,0 - 41,0	-	55	190	155	-
EBUDC	62M	M63x2.0	36,0 - 45,0	36,0 - 45,0	36,0 - 38,0	38,0 - 41,0	41,0 - 45,0	55	190	155	140
EBUDC	67M	M63x1.5	42,0 - 52,0	42,0 - 52,0	42,0 - 48,0	48,0 - 52,0	-	100	130	145	-
EBUDC	67SM	M63x1.5	50,0 - 56,0	50,0 - 56,0	-	50,0 - 52,0	52,0 - 56,0	100	-	145	135
EBUDC	672M	M63x2.0	42,0 - 52,0	42,0 - 52,0	42,0 - 48,0	48,0 - 52,0	-	100	130	145	-
EBUDC	67S2M	M63x2.0	50,0 - 56,0	50,0 - 56,0	-	50,0 - 52,0	52,0 - 56,0	100	-	145	135
EBUDC	7SM	M75x1.5	36,0 - 45,0	36,0 - 45,0	36,0 - 38,0	38,0 - 41,0	41,0 - 45,0	55	190	155	140
EBUDC	7S2M	M75x2.0	36,0 - 45,0	36,0 - 45,0	36,0 - 38,0	38,0 - 41,0	41,0 - 45,0	55	190	155	140
EBUDC	77M	M75x1.5	42,0 - 52,0	42,0 - 52,0	42,0 - 48,0	48,0 - 52,0	-	100	130	145	-
EBUDC	772M	M75x2.0	42,0 - 52,0	42,0 - 52,0	42,0 - 48,0	48,0 - 52,0	-	100	130	145	-
EBUDC	7M	M75x1.5	50,0 - 62,0	50,0 - 62,0	50,0 - 51,0	51,0 - 56,0	56,0 - 62,0	100	185	175	150
EBUDC	72M	M75x2.0	50,0 - 62,0	50,0 - 62,0	50,0 - 51,0	51,0 - 56,0	56,0 - 62,0	100	185	175	150
EBUDC	78M	M75x1.5	61,0 - 69,0	61,0 - 69,0	61,0 - 65,0	65,0 - 69,0	-	125	123	118	-
EBUDC	782M	M75x2.0	61,0 - 69,0	61,0 - 69,0	61,0 - 65,0	65,0 - 69,0	-	125	123	118	-
EBUDC	80M	M80x1.5	61,0 - 71,0	61,0 - 71,0	61,0 - 65,0	65,0 - 70,0	70,0 - 71,0	125	123	118	110
EBUDC	82M	M80x2.0	61,0 - 71,0	61,0 - 71,0	61,0 -65,0	65,0 - 70,0	70,0 - 71,0	125	123	118	110
EBUDC	8SM	M90x1.5	50,0 - 62,0	50,0 - 62,0	50,0 - 51,0	51,0 - 56,0	56,0 - 62,0	100	185	175	150
EBUDC	8S2M	M90x2.0	50,0 - 62,0	50,0 - 62,0	50,0 - 51,0	51,0 - 56,0	56,0 - 62,0	100	185	175	150
EBUDC	8M	M90x1.5	61,0 - 75,0	61,0 - 75,0	61,0 -65,0	65,0 - 70,0	70,0 - 75,0	125	123	118	110
EBUDC	82LM	M90x2.0	61,0 - 75,0	61,0 - 75,0	61,0 - 65,0	65,0 - 70,0	70,0 - 75,0	125	123	118	110
EBUDC	810M	M90x1.5	75,0 - 82,0	75,0 - 82,0	75,0 - 78,0	78,0 - 81,0	81,0 - 82,0	200	135	130	125
EBUDC	8102M	M90x2.0	75,0 - 82,0	75,0 - 82,0	75,0 - 78,0	78,0 - 81,0	81,0 - 82,0	200	135	130	125
EBUDC	10SM	M100x1.5	61,0 - 75,0	61,0 - 75,0	61,0 -65,0	65,0 - 70,0	70,0 - 75,0	125	123	118	110
EBUDC	10S2M	M100x2.0	61,0 - 75,0	61,0 - 75,0	61,0 - 65,0	65,0 - 70,0	70,0 - 75,0	125	123	118	110
EBUDC	10M	M100x1.5	75,0 - 85,0	75,0 - 85,0	75,0 - 78,0	78,0 - 81,0	81,0 - 85,0	200	135	130	125
EBUDC	102M	M100x2.0	75,0 - 85,0	75,0 - 85,0	75,0 - 78,0	78,0 - 81,0	81,0 - 85,0	200	135	130	125
EBUDC	11SM	M110x1.5	85,0 - 89,0	85,0 - 89,0	85,0 - 88,0	88,0 - 89,0	-	200	180	175	-
EBUDC	11M	M110x1.5	88,0 - 95,0	88,0 - 95,0	-	88,0 - 91,0	91,0 - 95,0	270	-	175	170
EBUDC	11S2M	M110x2.0	85,0 - 89,0	85,0 - 89,0	85,0 - 88,0	88,0 - 89,0	-	200	180	175	-
EBUDC	112M	M110x2.0	88,0 - 95,0	88,0 - 95,0	-	88,0 - 91,0	91,0 - 95,0	270	-	175	170
EBUDC	1152SM	M115x2.0	75,0 - 85,0	75,0 - 85,0	75,0 - 78,0	78,0 - 81,0	81,0 - 85,0	200	135	130	125
EBUDC	115SM	M115x2.0	85,0 - 89,0	85,0 - 89,0	85,0 - 88,0	88,0 - 89,0	-	200	180	175	-
EBUDC	115XSM	M115x2.0	88,0 - 95,0	88,0 - 95,0	-	88,0 - 91,0	91,0 - 95,0	270	-	175	170
EBUDC	115M	M115x2.0	95,0 - 104,0	95,0 - 104,0	95,0 - 98,0	98,0 - 101,0	101,0 - 104,0	270	450	450	450

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

FLAT CABLES

Use proper sealing ring according to cable dimensions, according to following tables !

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)	Torque value [Nm]	Suitable for	
			Ex db	Ex eb Ex tb
EBU 1S..	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	16	no	yes
EBU 1..		16	no	yes
EBU 12..		16	no	yes
EBU 2..	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	18	no	yes
EBU 23..		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..	EBMS 12.01..	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	16	no	yes
EBM 1.1..	EBMS 1.1..		16	no	yes
EBM 12.12..	EBMS 12.12..		16	no	yes
EBM 12.23..	EBMS 12.23..		16	no	yes
EBM 23.12..	EBMS 23.12..	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	18	no	yes
EBM 2.2..	EBMS 2.2..		18	no	yes
EBM 23.23..	EBMS 23.23..		18	no	yes
EBM 23.34..	EBMS 23.34..		18	no	yes

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

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

Table 4.5: 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..	EBLS 1S..	EBLQ 1S..	FxA1; FxB1; FxC1; FxD1; FxE1; FxG1	16	no	yes
EBLN 1..	EBLS 1..	EBLQ 1..		16	no	yes
EBLN 2..	EBLS 2..	EBLQ 2..	FxA2; FxB2; FxC2; FxD2; FxE2; FxF2; FxG2; FxH2	18	no	yes

Tap "Dome plug"

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

Key code:

EBU	1	2	3	4	5	6	7	
EBUDC	1	2	3	4	5	6	7	
EBMC	1	3	4	5	6	7		
EBS	1	2	3	4	5	6	7	
EBLS	1	3	4	5	6	7		
EBLQ	1	3	4	5	6	7		
EBLN	1	3	4	5	6	7		
NBU	1	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 19)		
2	Optional	Blank	: standard features
		2 or 3 or 4 or 5 or 6 or 7 or 8 or 10	: larger clamping range
		XS or S	: reduced clamping range (XS used only for M115)
3	Pitch (for Metric thread only)	Blank	: 1,25 pitch (for only M8)
		Blank	: 1,5 pitch (from M12 to M100, excluded M115 and M130)
		Blank	: 2,0 pitch (only for M115 and M130)
		2	: 2,0 pitch (for M63,M75, M80, M90, M100 only)
4	Thread type	"N"	: NPT ANSI ASME B1.20.1
		"M"	: Metric UNI ISO 261
		"P"	: PG DIN 40430
		"S"	: NPSM ANSI/ASME B1.20.1
		"C"	: GAS UNI ISO 228-1
		"G"	: GAS ISO 7/1
		"K"	: Gk (CEI EN 60079-1, Annex 1)
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).

Table 1 . Model codes corresponding to thread type and sizes

Code	Metric	NPT	PG	NPSM	GAS ISO 7/1	Gk	GAS UNI 228/1
0XS	M8	-	-	-	-	-	-
0	M12	¼"	-	¼"	¼"	¼"	¼"
1	M16	3/8"	-	3/8"	3/8"	3/8"	3/8"
1	M20	½"	PG7	½"	½"	½"	½"
2	M25	¾"	PG9	¾"	¾"	¾"	¾"
3	M32	1"	PG11	1"	1"	1"	1"
4	M40	1 ¼"	PG13,5	1 ¼"	1 ¼"	1 ¼"	1 ¼"
5	M50	1 ½"	PG16	1 ½"	1 ½"	1 ½"	1 ½"
6	M63	2"	PG21	2"	2"	2"	2"
7	M75	2 ½"	PG29	2 ½"	2 ½"	2 ½"	2 ½"
80	M80	--	--	--	--	--	--
8	M90	3"	PG36	3"	3"	3"	3"
9	-	-	PG42	-	-	-	-
10	M100	4"	PG48	4"	4"	4"	4"
11	M110	4"	-	4"	4"	4"	4"
115	M115	4"	-	4"	4"	4"	4"
13	M130	5"	-	5"	5"	5"	5"

EBM 1 2 3 4 5 6 7 8 **EBMS** 1 2 3 4 5 6 7 8	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 19)
	2	Male thread type: "N" : NPT ANSI ASME B1.20.1 "M" : Metric ISO pitch 1,5 (ISO 965/1 and ISO 965/3)
	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)
	4	Female thread type: "N" : NPT ANSI ASME B1.20.1 "M" : Metric ISO pitch 1,5 (ISO 965/1 and ISO 965/3)
	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 (axb) : Flat sealing ring hole dimensions

BDPX 1 2 2 3	1	Blank : Black colour "B" : Blue colour "G" : Green colour
	2	: size and dimensions (example : 15-21)
	3	: Plug size (example M16)

Table 1 .
Model codes corresponding to thread type and sizes

Code	Metric	NPT
0XS	M8	-
0	M12	¼"
1	M16	3/8"
1	M20	½"
2	M25	¾"
3	M32	1"
4	M40	1 ¼"
5	M50	1 ½"
6	M63	2"
7	M75	2 ½"
80	M80	--
8	M90	3"
9	-	-
10	M100	4"
11	M110	4"
115	M115	4"
13	M130	5"

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.