



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

|                     |  |             |                             |
|---------------------|--|-------------|-----------------------------|
| Certificate No.:    | <b>IECEx IMQ 13.0003X</b>  | Page 1 of 4 | <u>Certificate history:</u> |
| Status:             | <b>Current</b>   | Issue No: 9 | Issue 8 (2021-09-28)        |
| Date of Issue:      | 2021-12-15   |             | Issue 7 (2021-03-15)        |
| Applicant:          | <b>Bimed Teknik Aletler San ve Tic. A.S.</b><br>S.S Bakır ve Piriç Sanayi Sitesi<br>Leylak Cd. No:16 - 34524 Beylikdüzü - İstanbul<br><b>Türkiye</b>   |             | Issue 6 (2017-07-21)        |
| Equipment:          | <b>Polyamide cable glands for circular and flat cables,<br/>polyamide taps: series B.....; B..DC.....; T.....;<br/>HIB.....; HIB...(axb)....; HIB.....(DS)..; EHIB.....;<br/>EHIB.....(DS)..; HIT.....</b> |             | Issue 5 (2017-05-19)        |
| Optional accessory: |  |             | Issue 4 (2017-04-11)        |
| Type of Protection: | <b>Ex eb; Ex tb</b>  |             | Issue 3 (2016-02-05)        |
| Marking:            | Ex eb IIC Gb   |             | Issue 2 (2015-08-07)        |
|                     | Ex tb IIIC Db IP66/68  |             | Issue 1 (2015-02-20)        |
|                     |  |             | Issue 0 (2013-05-29)        |

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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# IECEX Certificate of Conformity

Certificate No.: **IECEX IMQ 13.0003X**

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Date of issue: 2021-12-15

Issue No: 9

Manufacturer: **Bimed Teknik Aletler San ve Tic. A.S.**  
S.S Bakır ve Piring Sanayi Sitesi  
Leylak Cd. No:16 - 34524 Beylikdüzü - Istanbul  
**Türkiye**

Manufacturing  
locations:

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 60079-31:2013](#) 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 Reports:

[IT/IMQ/ExTR13.0003/08](#)

[IT/IMQ/ExTR15.0001/07](#)

Quality Assessment Report:

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



# IECEX Certificate of Conformity

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Date of issue: 2021-12-15

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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The polyamide cable glands series B.-.; B..DC-.; HIB.-.; HIB..-(DS); EHIB.-.; EHIB..-(DS); are used to introduce permanently circular cables into enclosure.

The polyamide cable glands series HIB..-(axb) are used to introduce permanently non-circular (flat) cables into enclosure.

Plugs series T.-. and HIT.-. are used to close unused cable entry of an enclosure.

Cable glands and plugs are suitable for electrical equipment either with type of protection Ex-e or type of protection Ex-t. Cable glands can be also used for intrinsically safe circuits Ex-i.

Cable glands HIB..-(DS), EHIB..-(DS) are provided with single (S1) or double (S1+S2) sealing rings.

Cable glands HIB.-., EHIB.-. are provided with single (S1) sealing rings only.

Cable glands series HIB..-(axb) are provided with sealing ring specific for non-circular (flat cables), sealing ring hole dimensions are specified in brackets.

Cable glands B.-.; B..DC-.; HIB.-.; HIB..-(DS); EHIB.-.; EHIB..-(DS); can be supplied with cap, polyamide made, as accessory (BDPX-.-), suitable to guarantee IP degree when installed according to manufacturer's instructions. Details in Annex.

Additionally, dust plugs are used for Ex polyamide cable glands to protect the glands from dust during the shipment. It is taken out during installation.

Details on sealing rings material, flat washer (placed between the body and the cover of enclosures) materials and limitations are listed in Annex.

The cable glands and plugs can be factory made with the following threads:

- Metric ISO pitch 1,5 (ISO 965/1, ISO 965/2, ISO 965/3)
- NPT ANSI ASME B1.20.1
- PF ISO 228/1
- PG DIN 40430

Protection degree: IP66/68.

Full details in Annex.

## 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 cable glands/plugs and the relevant cables, shall be used where a protection against risk of mechanical damage is provided, when they are suitable for low mechanical risk (4J) only for B.-.; B..DC- and T.-.

The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.

For gas installations (only for cable glands with M50/PG42/PF 1 1/2"/NPT 1 1/2" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.

When cable glands are installed with polyamide insert BDPX.-., mechanical risk have to be taken into account, depending on cable gland and insert cap. When insert cap 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).

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



# IECEX Certificate of Conformity

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Date of issue: 2021-12-15

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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 new model BM-XEU40L derived from already tested cable glands types: differences have no effects on protection mode.

Adding KLINGERSIL® C-4400 or EPDM rubber as material used for additional gasket between cable gland and enclosure.

Cable glands B.-. and B.DC.-. can be supplied with tap, polyamide made, as accessory (BP.-.), suitable to guarantee IP degree when installed according to manufacturer's instructions.

Adding serie HIB.-.; HIB.-.(DS); MHIB.-.; MHIB.-.(DS); HIT.-.

### Issue 2

Standard update to IEC 60079-31:2013 ed. 2

Introductions of alternative of blue cap for the following series: B.-.; B..DC.; HIB.-.; HIB... (DS). Change of related key code, according to Annex. The blue cap versions of cable glands are used for Ex i circuits.

Addition of models BN.-X8, BN.-X9, BN.-X10, covered by tests already performed.

New models HIB.-.(axb) with sealing rings specific for non circular (flat) cables

New models EHIB.-.; EHIB.-.(DS) with alternative cap versions

### Issue 3

Changes in clamping range for rationalization between single and double sealing rings, for series HIB.-.; HIB.-.(DS); EHIB.-.; EHIB.-.(DS). These changes does not impair the validity of tests already performed.

Change in cap shape for series EHIB.-.; EHIB.-.(DS). The new design does not impair the validity of tests already performed.

Change name for protection tap from BP.-. to BDPX.-..

### Issue 4

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

Removing from series of cable gland MHIB.-.; MHIB.-.(DS) (samples with metal insert inside body)

New colour for BDPX.-.. (Green colour cap tested for UV resistance)

Changes in length for some models

### Issue 5

Change address of Applicant and Manufacturer (test reports and annex to this certificate remain unchanged)

### Issue 6

Modifications in key code for Marking Specification.

### Issue 7

Standard update to IEC 60079-0:2017 ed. 7.0.

Temperature range for models BM-X2S, BM-SX5S, BM-SX7S has been changed from -40°C ÷ +80°C to -40°C ÷ +85°C.

Introduction of small equipment marking for model EHIB.-X.. M12-M16 cable gland sizes.

### Issue 8

Document list update.

### Issue 9

Standard update to IEC 60079-7:2017 Ed. 5.1

## Annex:

[IECEX IMQ 13.0003X issue No. 9 Annex.pdf](#)

**Annex to:** IECEx IMQ 13.0003X issue No. 9

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

**Apparatus:** B...-...-...; B..DC-...-...; T...-...-...;  
HIB...-...; HIB...-...(axb); HIB...-...(DS); EHIB...-...; EHIB...-...(DS);  
HIT...-... BDPX...-...-



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## General description

The polyamide cable glands series B...-...-...; B..DC-...-...; HIB...-...; HIB...-...(DS); EHIB...-...; EHIB...-...(DS); are used to introduce permanently circular cables into enclosure.

The polyamide cable glands series HIB...-...(axb) are used to introduce permanently non-circular (flat) cables into enclosure.

Plugs series T...-...-... and HIT...-... are used to close unused cable entry of an enclosure.

Cable glands and plugs are suitable for electrical equipment either with type of protection Ex-e or type of protection Ex-t. Cable glands can be also used for intrinsically safe circuits Ex-i.

Cable glands HIB...-...(DS), EHIB...-...(DS) are provided with single (S1) or double (S1+S2) sealing rings.

Cable glands HIB...-..., EHIB...-... are provided with single (S1) sealing rings only.

Cable glands series HIB...-...(axb) are provided with sealing ring specific for non-circular (flat cables), sealing ring hole dimensions are specified in brackets.

Cable glands B...-...; B..DC-...-...; HIB...-...; HIB...-...(DS); EHIB...-...; EHIB...-...(DS); can be supplied with cap, polyamide made, as accessory (BDPX...-...), suitable to guarantee IP degree when installed according to manufacturer's instructions. Details in Table 4.

Additionally, dust plugs are used for Ex polyamide cable glands to protect the glands from dust during the shipment. It is taken out during installation.

Details on sealing rings material, flat washer (placed between the body and the cover of enclosures) materials and limitations are listed in Table 1.

The cable glands and plugs can be factory made with the following threads:

- Metric ISO pitch 1,5 (ISO 965/1, ISO 965/2, ISO 965/3)
- NPT ANSI ASME B1.20.1
- PF ISO 228/1
- PG DIN 40430

Annex to: IECEx IMQ 13.0003X issue No. 9

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

Apparatus: B...-...-...; B..DC-...-...; T...-...-...;

HIB...-...; HIB...-(axb); HIB...-(DS); EHIB...-...; EHIB...-(DS);

HIT...-... BDPX...-...-



Table 1: materials and service temperatures

| Series                         | Service temperature <sup>1</sup> | Sealing rings material             | Flat washer materials  | OR materials                                      | Mechanical risk |
|--------------------------------|----------------------------------|------------------------------------|--|---|-----------------|
| B...-                          | -40 ÷ +80 °C <sup>2</sup>        | chloroprene (neoprene)<br>silicone | chloroprene (neoprene)<br>silicone<br>KLINGERSIL® C-4400<br>EPDM rubber<br>NBR | chloroprene (neoprene)<br>silicone<br>EPDM rubber | Low (4J)        |
| BM-X2S,<br>BM-SX5S,<br>BM-SX7S | -40 ÷ +85 °C                     | silicone                           | chloroprene (neoprene)<br>silicone<br>KLINGERSIL® C-4400<br>EPDM rubber<br>NBR | chloroprene (neoprene)<br>silicone<br>EPDM rubber | Low (4J)        |
| B..DC-.                        | -40 ÷ +80 °C <sup>2</sup>        | chloroprene (neoprene)<br>silicone | chloroprene (neoprene)<br>silicone<br>KLINGERSIL® C-4400<br>EPDM rubber<br>NBR | chloroprene (neoprene)<br>silicone<br>EPDM rubber | Low (4J)        |
| T...-                          | -40 ÷ +80 °C                     | -                                  | chloroprene (neoprene)<br>silicone<br>KLINGERSIL® C-4400<br>EPDM rubber<br>NBR | -   | Low (4J)        |
| HIB...-                        | -30 ÷ +70 °C                     | NBR                                | chloroprene (neoprene)<br>silicone<br>KLINGERSIL® C-4400<br>EPDM rubber<br>NBR | chloroprene (neoprene)<br>silicone<br>EPDM rubber | High (7J)       |
|                                | -40 ÷ +70 °C                     | chloroprene (neoprene)             |  |   |                 |
|                                | -60 ÷ +70 °C                     | silicone                           |  |   |                 |
| EHIB...-                       | -30 ÷ +70 °C                     | NBR                                | chloroprene (neoprene)<br>silicone<br>KLINGERSIL® C-4400<br>EPDM rubber<br>NBR | chloroprene (neoprene)<br>silicone<br>EPDM rubber | High (7J)       |
|                                | -40 ÷ +70 °C                     | chloroprene (neoprene)             |  |   |                 |
|                                | -60 ÷ +70 °C                     | silicone                           |  |   |                 |
| HIB...-(axb)                   | -60 ÷ +70 °C                     | silicone                           | chloroprene (neoprene)<br>silicone<br>KLINGERSIL® C-4400<br>EPDM rubber<br>NBR | chloroprene (neoprene)<br>silicone<br>EPDM rubber | High (7J)       |
| HIB...-(DS)                    | -30 ÷ +70 °C                     | NBR                                | chloroprene (neoprene)<br>silicone<br>KLINGERSIL® C-4400<br>EPDM rubber<br>NBR | chloroprene (neoprene)<br>silicone<br>EPDM rubber | High (7J)       |
|                                | -40 ÷ +70 °C                     | chloroprene (neoprene)             |  |   |                 |
|                                | -60 ÷ +70 °C <sup>2</sup>        | silicone                           |  |   |                 |
| EHIB...-(DS)                   | -30 ÷ +70 °C                     | NBR                                | chloroprene (neoprene)<br>silicone<br>KLINGERSIL® C-4400<br>EPDM rubber<br>NBR | chloroprene (neoprene)<br>silicone<br>EPDM rubber | High (7J)       |
|                                | -40 ÷ +70 °C                     | chloroprene (neoprene)             |  |   |                 |
|                                | -60 ÷ +70 °C                     | silicone                           |  |   |                 |
| HIT...-X.                      | -30 ÷ +70 °C                     | -                                  | NBR  | -   | High (7J)       |
|                                | -40 ÷ +70 °C                     |                                    | chloroprene (neoprene)<br>EPDM rubber  |   |                 |
|                                | -60 ÷ +70 °C                     |                                    | silicone   |   |                 |
|                                | -60 ÷ +70 °C                     |                                    | KLINGERSIL® C-4400   |   |                 |

Notes

<sup>1</sup> Service temperature is related to material of sealing rings and polyamide which cable glands body is made of, but can be additionally limited by material of flat washer/OR material temperature limitations: chloroprene (-40÷100 °C); silicone (-60÷180 °C); EPDM rubber (-40÷110 °C); KLINGERSIL® C-4400 fiber (-50÷130 °C). The use of these materials in flat washer/OR has to be taken into account in determination of lower limit of service temperature of cable glands, while upper limit is 80 °C for BX...-, B.DC...-, T...-, and 70°C for all other models.

<sup>2</sup> When used blue caps (B...-...; B.DC...-) and/or BP...-... protection tap is used, the service temperature is -40÷70 °C. Low mechanical risk (4J).

The cable glands, fitted with insert cap or not, and plugs are suitable for gas and dust atmosphere (II2GD).

The temperature range is detailed in Table 1 above.

All cable glands must be supplied with flat washer/O-ring for IP protection.

All plugs must be supplied with flat washer for IP protection.

Materials are detailed in Table 1 above.



## Design options and Models sizes

Sizes of models, recommended torque and (for cable glands) range of diameter for suitable cables are shown in following tables.

S1 means single sealing ring mounted inside cable gland.

S1+S2 means double sealing rings mounted inside cable gland.

| Table 3.1: B...-...; B..DC-... |            |                    |                                     |                                      |                 |          |
|--------------------------------|------------|--------------------|-------------------------------------|--------------------------------------|-----------------|----------|
| Model                          | Thread     | Min-max cable [mm] | Recommended Torque value (cap) [Nm] | Recommended torque value (body) [Nm] | Mechanical risk |          |
| BM.-SX2                        | M20x1.5    | 5,0-10,0           | 2,5                                 | 2,5                                  | Low (4j)        |          |
| BM.-X2                         | M20x1.5    | 6,0-12,0           | 5,0                                 | 5,0                                  |                 |          |
| BM.-X2L                        | M20x1.5    | 6,0-12,0           | 5,0                                 | 5,0                                  |                 |          |
| BM.-X3                         | M20x1.5    | 10,0-14,0          | 5,5                                 | 5,5                                  |                 |          |
| BM.-X4                         | M20x1.5    | 10,0-14,0          | 5,5                                 | 5,5                                  |                 |          |
| BM.-SX5                        | M25x1.5    | 10,0-14,0          | 5,5                                 | 5,5                                  |                 |          |
| BM.-X5                         | M25x1.5    | 13,0-18,0          | 7,0                                 | 7,0                                  |                 |          |
| BM.-SX6                        | M25x1.5    | 10,0-14,0          | 5,5                                 | 5,5                                  |                 |          |
| BM.-X6                         | M25x1.5    | 13,0-18,0          | 7,0                                 | 7,0                                  |                 |          |
| BM.-XEU25                      | M25x1.5    | 11,0-17,0          | 5,0                                 | 5,0                                  |                 |          |
| BM.-XEU32                      | M32x1.5    | 15,0-21,0          | 6,0                                 | 6,0                                  |                 |          |
| BM.-SX7                        | M32x1.5    | 13,0-18,0          | 7,0                                 | 7,0                                  |                 |          |
| BM.-X7                         | M32x1.5    | 18,0-25,0          | 9,0                                 | 9,0                                  |                 |          |
| BM.-XEU40                      | M40x1.5    | 19,0-28,0          | 5,0                                 | 5,0                                  |                 |          |
| BM.-XEU40L                     | M40x1.5    | 19,0-28,0          | 5,0                                 | 5,0                                  |                 |          |
| BM.-X8                         | M40x1.5    | 22,0-32,0          | 17,0                                | 17,0                                 |                 |          |
| BM.-X9                         | M50x1.5    | 30,0-38,0          | 22,0                                | 22,0                                 |                 |          |
| BM.-X10                        | M63x1.5    | 34,0-44,0          | 23,0                                | 23,0                                 |                 |          |
| BN.-SX2                        | NPT 1/2"   | 5,0-10,0           | 2,5                                 | 2,5                                  |                 | Low (4j) |
| BN.-X2                         | NPT 1/2"   | 6,0-12,0           | 5,0                                 | 5,0                                  |                 |          |
| BN.-LX2                        | NPT 1/2"   | 10,0-14,0          | 5,5                                 | 5,5                                  | Low (4j)        |          |
| BN.-X3                         | NPT 3/4"   | 13,0-18,0          | 7,0                                 | 7,0                                  |                 |          |
| BN.-X4                         | NPT 1"     | 18,0-25,0          | 9,0                                 | 9,0                                  |                 |          |
| BN.-X8                         | NPT 1 1/4" | 22,0-32,0          | 17,0                                | 17,0                                 |                 |          |
| BN.-X9                         | NPT 1 1/2" | 30,0-38,0          | 22,0                                | 22,0                                 |                 |          |
| BN.-X10                        | NPT 2"     | 34,0-44,0          | 23,0                                | 23,0                                 |                 |          |
| BPF.-SX2                       | PF 1/2"    | 5,0-10,0           | 2,5                                 | 2,5                                  | Low (4j)        |          |
| BPF.-X2                        | PF 1/2"    | 6,0-12,0           | 5,0                                 | 5,0                                  |                 |          |
| BPF.-LX2                       | PF 1/2"    | 10,0-14,0          | 5,5                                 | 5,5                                  |                 |          |
| BPF.-X3                        | PF 3/4"    | 13,0-18,0          | 7,0                                 | 7,0                                  |                 |          |
| BPF.-X4                        | PF 1"      | 18,0-25,0          | 9,0                                 | 9,0                                  |                 |          |
| BP.-X4                         | PG 13,5    | 6,0-12,0           | 5,0                                 | 5,0                                  | Low (4j)        |          |
| BP.-X5                         | PG 16      | 10,0-14,0          | 5,5                                 | 5,5                                  |                 |          |
| BP.-X6                         | PG 21      | 13,0-18,0          | 7,0                                 | 7,0                                  |                 |          |
| BP.-X7                         | PG 29      | 18,0-25,0          | 9,0                                 | 9,0                                  |                 |          |
| BP.-X8                         | PG 36      | 22,0-32,0          | 17,0                                | 17,0                                 |                 |          |
| BP.-X9                         | PG 42      | 30,0-38,0          | 22,0                                | 22,0                                 |                 |          |
| BP.-X10                        | PG 48      | 34,0-44,0          | 23,0                                | 23,0                                 |                 |          |
| BM.DC-X3                       | M25x1.5    | 12,0-18,0          | 8,0                                 | 8,0                                  | Low (4j)        |          |

Annex to: IECEx IMQ 13.0003X issue No. 9

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

Apparatus: B...-...-; B..DC-...-; T...-...;

HIB...-; HIB...-(axb); HIB...-(DS); EHIB...-; EHIB...-(DS);

HIT... BDPX...-



| Model  |        |        |        | Torque value [Nm] | Mechanical risk |
|--------|--------|--------|--------|-------------------|-----------------|
| TP-X02 | TN-X02 | TG-X02 | TB-X02 | 1.5               |                 |
| TP-X01 | TN-X01 | TG-X01 | TB-X01 | 1.5               |                 |
| TP-X1  | TN-X1  | TG-X1  | TB-X1  | 2                 |                 |
| TP-X2  | TN-X2  | TG-X2  | TB-X2  | 2.5               |                 |
| TP-X3  | TN-X3  | TG-X3  | TB-X3  | 4                 |                 |
| TP-X4  | TN-X4  | TG-X4  | TB-X4  | 6                 |                 |
| TP-X5  | TN-X5  | TG-X5  | TB-X5  | 8                 |                 |
| TP-X6  | TN-X6  | TG-X6  | TB-X6  | 10                |                 |

| Model         |                | Min-max cable [mm] | Torque value (cap) [Nm] | Recommended torque value (body) [Nm] | Mechanical risk |
|---------------|----------------|--------------------|-------------------------|--------------------------------------|-----------------|
| HIB...-0XS    | EHIB...-0XS    | 4-6.5              | 2                       | 2                                    | High (7)        |
| HIB...-XS     | EHIB...-XS     | 4-6.5              | 2                       | 2                                    |                 |
| HIB...-SX1    | EHIB...-SX1    | 5-8                | 4                       | 4                                    |                 |
| HIB...-SX1L   | EHIB...-SX1L   | 5-8                | 4                       | 4                                    |                 |
| HIB...-X1     | EHIB...-X1     | 6-10               | 4                       | 4                                    |                 |
| HIB...-X1L    | EHIB...-X1L    | 6-10               | 4                       | 4                                    |                 |
| HIB...-SX2    | EHIB...-SX2    | 6-10               | 2.5                     | 2.5                                  |                 |
| HIB...-X2     | EHIB...-X2     | 7-12               | 5                       | 5                                    |                 |
| HIB...-X2L    | EHIB...-X2L    | 7-12               | 5                       | 5                                    |                 |
| HIB...-MX2    | EHIB...-MX2    | 7-13               | 4.5                     | 4.5                                  |                 |
| HIB...-X3     | EHIB...-X3     | 11-14              | 5.5                     | 5.5                                  |                 |
| HIB...-X4     | EHIB...-X4     | 11-14              | 5.5                     | 5.5                                  |                 |
| HIB...-SX5    | EHIB...-SX5    | 11-14              | 5.5                     | 5.5                                  |                 |
| HIB...-SX6    | EHIB...-SX6    | 11-14              | 5.5                     | 5.5                                  |                 |
| HIB...-XEU25  | EHIB...-XEU25  | 12-17              | 5                       | 5                                    |                 |
| HIB...-XEU25L | EHIB...-XEU25L | 12-17              | 5                       | 5                                    |                 |
| HIB...-X5     | EHIB...-X5     | 14-18              | 8                       | 8                                    |                 |
| HIB...-X6     | EHIB...-X6     | 14-18              | 8                       | 8                                    |                 |
| HIB...-SX7    | EHIB...-SX7    | 14-18              | 8                       | 8                                    |                 |
| HIB...-XEU32  | EHIB...-XEU32  | 16-21              | 6                       | 6                                    |                 |
| HIB...-XEU32L | EHIB...-XEU32L | 16-21              | 6                       | 6                                    |                 |
| HIB...-X7     | EHIB...-X7     | 19-25              | 9                       | 9                                    |                 |
| HIB...-XEU40  | EHIB...-XEU40  | 20-28              | 5                       | 5                                    |                 |
| HIB...-XEU40L | EHIB...-XEU40L | 20-28              | 5                       | 5                                    |                 |
| HIB...-X8     | EHIB...-X8     | 23-32              | 17.5                    | 17.5                                 |                 |
| HIB...-X9     | EHIB...-X9     | 31-38              | 22                      | 22                                   |                 |
| HIB...-X10    | EHIB...-X10    | 35-44              | 24                      | 24                                   |                 |

| Cable gland code | Sealing ring dimensions [mm x mm] | Complete code            | Cable min [mm x mm] | Cable max [mm x mm] | Torque value (cap) [Nm] | Recommended torque value (body) [Nm] | Mechanical risk |
|------------------|-----------------------------------|--------------------------|---------------------|---------------------|-------------------------|--------------------------------------|-----------------|
| HIB...-SX5       | 6,0x10,8                          | HIB...-SX5 (6,0x10,8)    | 4,21x11,69          | 5,23 x 13,21        | 8                       | 8                                    | High (7)        |
|                  | 5,0x12,8                          | HIB...-SX5 (5,0x12,8)    | 5,03 x 12,50        | 6,05 x 14,02        |                         |                                      |                 |
| HIB...-X5        | 6,0x10,8                          | HIB...-X5 (6,0x10,8)     | 4,21x11,69          | 5,23 x 13,21        |                         |                                      |                 |
|                  | 5,0x12,8                          | HIB...-X5 (5,0x12,8)     | 5,03 x 12,50        | 6,05 x 14,02        |                         |                                      |                 |
|                  | 5,0x15,0                          | HIB...-X5 (5,0x15,0)     | 6,09 x 13,72        | 7,11 x 15,24        |                         |                                      |                 |
| HIB...-XEU25     | 6,0x10,8                          | HIB...-XEU25 (6,0x10,8)  | 4,21x11,69          | 5,23 x 13,21        |                         |                                      |                 |
|                  | 5,0x12,8                          | HIB...-XEU25 (5,0x12,8)  | 5,03 x 12,50        | 6,05 x 14,02        |                         |                                      |                 |
|                  | 5,0x15,0                          | HIB...-XEU25 (5,0x15,0)  | 6,09 x 13,72        | 7,11 x 15,24        |                         |                                      |                 |
| HIB...-SX6       | 6,0x10,8                          | HIB...-SX6 (6,0x10,8)    | 4,21x11,69          | 5,23 x 13,21        |                         |                                      |                 |
|                  | 5,0x12,8                          | HIB...-SX6 (5,0x12,8)    | 5,03 x 12,50        | 6,05 x 14,02        |                         |                                      |                 |
| HIB...-X6        | 6,0x10,8                          | HIB...-X6 (6,0x10,8)     | 4,21x11,69          | 5,23 x 13,21        |                         |                                      |                 |
|                  | 5,0x12,8                          | HIB...-X6 (5,0x12,8)     | 5,03 x 12,50        | 6,05 x 14,02        |                         |                                      |                 |
|                  | 5,0x15,0                          | HIB...-X6 (5,0x15,0)     | 6,09 x 13,72        | 7,11 x 15,24        |                         |                                      |                 |
| HIB...-XEU25L    | 6,0x10,8                          | HIB...-XEU25L (6,0x10,8) | 4,21x11,69          | 5,23 x 13,21        |                         |                                      |                 |
|                  | 5,0x12,8                          | HIB...-XEU25L (5,0x12,8) | 5,03 x 12,50        | 6,05 x 14,02        |                         |                                      |                 |
|                  | 5,0x15,0                          | HIB...-XEU25L (5,0x15,0) | 6,09 x 13,72        | 7,11 x 15,24        |                         |                                      |                 |



Annex to: IECEx IMQ 13.0003X issue No. 9

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

Apparatus: B...-...-...; B..DC-...-...; T...-...;

HIB...-...; HIB...-(axb); HIB...-(DS); EHIB...-...; EHIB...-(DS);

HIT...-... BDPX...-...



| Table 3.5: HIB...-(DS); EHIB...-(DS) |                    |                    |        |                         |      |                                      |                 |
|--------------------------------------|--------------------|--------------------|--------|-------------------------|------|--------------------------------------|-----------------|
| Model                                |                    | Min-max cable [mm] |        | Torque value (cap) [Nm] |      | Recommended torque value (body) [Nm] | Mechanical risk |
|                                      |                    | S1+S2              | S1     | S1+S2                   | S1   |                                      |                 |
| HIB...-0XS(DS)                       | EHIB...-0XS(DS)    | 3-4                | 4-6.5  | 1                       | 2    | 2                                    | High (7J)       |
| HIB...-XS(DS)                        | EHIB...-XS(DS)     | 3-4                | 4-6.5  | 1                       | 2    | 2                                    |                 |
| HIB...-SX1(DS)                       | EHIB...-SX1(DS)    | 4-5                | 5-8    | 3.5                     | 4    | 4                                    |                 |
| HIB...-SX1L(DS)                      | EHIB...-SX1L(DS)   | 4-5                | 5-8    | 3.5                     | 4    | 4                                    |                 |
| HIB...-X1(DS)                        | EHIB...-X1(DS)     | 4-6                | 6-10   | 3.5                     | 4    | 4                                    |                 |
| HIB...-X1L(DS)                       | EHIB...-X1L(DS)    | 4-6                | 6-10   | 3.5                     | 4    | 4                                    |                 |
| HIB...-SX2(DS)                       | EHIB...-SX2(DS)    | 4-6                | 6-10   | 3.2                     | 2.5  | 2.5                                  |                 |
| HIB...-X2(DS)                        | EHIB...-X2(DS)     | 6-7.5              | 7.5-12 | 5                       | 5    | 5                                    |                 |
| HIB...-X2L(DS)                       | EHIB...-X2L(DS)    | 6-7.5              | 7.5-12 | 5                       | 5    | 5                                    |                 |
| HIB...-MX2(DS)                       | EHIB...-MX2(DS)    | 4-7                | 7-13   | 3.5                     | 4.5  | 4.5                                  |                 |
| HIB...-X3(DS)                        | EHIB...-X3(DS)     | 8-11               | 11-14  | 5.5                     | 5.5  | 5.5                                  |                 |
| HIB...-X4(DS)                        | EHIB...-X4(DS)     | 8-11               | 11-14  | 5.5                     | 5.5  | 5.5                                  |                 |
| HIB...-SX5(DS)                       | EHIB...-SX5(DS)    | 8-11               | 11-14  | 5.5                     | 5.5  | 5.5                                  |                 |
| HIB...-SX6(DS)                       | EHIB...-SX6(DS)    | 8-11               | 11-14  | 5.5                     | 5.5  | 5.5                                  |                 |
| HIB...-XEU25(DS)                     | EHIB...-XEU25(DS)  | 9-13               | 13-17  | 5                       | 5    | 5                                    |                 |
| HIB...-XEU25L(DS)                    | EHIB...-XEU25L(DS) | 9-13               | 13-17  | 5                       | 5    | 5                                    |                 |
| HIB...-X5(DS)                        | EHIB...-X5(DS)     | 10-13              | 13-18  | 5.5                     | 8    | 8                                    |                 |
| HIB...-X6(DS)                        | EHIB...-X6(DS)     | 10-13              | 13-18  | 5.5                     | 8    | 8                                    |                 |
| HIB...-SX7(DS)                       | EHIB...-SX7(DS)    | 10-13              | 13-18  | 5.5                     | 8    | 8                                    |                 |
| HIB...-XEU32(DS)                     | EHIB...-XEU32(DS)  | 12-16              | 16-21  | 4.5                     | 6    | 6                                    |                 |
| HIB...-XEU32L(DS)                    | EHIB...-XEU32L(DS) | 12-16              | 16-21  | 4.5                     | 6    | 6                                    |                 |
| HIB...-X7(DS)                        | EHIB...-X7(DS)     | 14-20              | 20-25  | 8                       | 9    | 9                                    |                 |
| HIB...-XEU40(DS)                     | EHIB...-XEU40(DS)  | 17-21              | 21-28  | 5                       | 5    | 5                                    | High (7J)       |
| HIB...-XEU40L(DS)                    | EHIB...-XEU40L(DS) | 17-21              | 21-28  | 5                       | 5    | 5                                    |                 |
| HIB...-X8(DS)                        | EHIB...-X8(DS)     | 21-25              | 23-32  | 15                      | 17.5 | 17.5                                 |                 |
| HIB...-X9(DS)                        | EHIB...-X9(DS)     | 22-31              | 31-38  | 18                      | 22   | 22                                   |                 |
| HIB...-X10(DS)                       | EHIB...-X10(DS)    | 28-35              | 35-44  | 22                      | 24   | 24                                   |                 |

| Table 3.8: HIT...- |            |            |                   |           |     |                   |                 |
|--------------------|------------|------------|-------------------|-----------|-----|-------------------|-----------------|
| Model              |            |            | Torque value [Nm] | Model     |     | Torque value [Nm] | Mechanical risk |
| HITP-X02           | HITN-X02   | HITG-X02   | 1.5               | HITB-X1   | 1.5 | High (7J)         |                 |
| HITP-X01           | HITN-X01   | HITG-X01   | 1.5               | HITB-X2   | 1.5 |                   |                 |
| HITP-X01L          | HITN-X01L  | HITG-X01L  | 1.5               | HITB-X2L  | 1.5 |                   |                 |
| HITP-X01HL         | HITN-X01HL | HITG-X01HL | 1.5               | HITB-X2HL | 1.5 |                   |                 |
| HITP-X1            | HITN-X1    | HITG-X1    | 2                 | HITB-X3   | 1.5 |                   |                 |
| HITP-X1L           | HITN-X1L   | HITG-X1L   | 2                 | HITB-X4   | 2   |                   |                 |
| HITP-X1HL          | HITN-X1HL  | HITG-X1HL  | 2                 | HITB-X4L  | 2   |                   |                 |
| HITP-X2            | HITN-X2    | HITG-X2    | 2.5               | HITB-X4HL | 2   |                   |                 |
| HITP-X2HL          | HITN-X2HL  | HITG-X2HL  | 2.5               | HITB-X5   | 2   |                   |                 |
| HITP-X3            | HITN-X3    | HITG-X3    | 4                 | HITB-X6   | 2.5 |                   |                 |
| HITP-X4            | HITN-X4    | HITG-X4    | 6                 | HITB-X6HL | 2.5 |                   |                 |
| HITP-X5            | HITN-X5    | HITG-X5    | 8                 | HITB-X7   | 4   |                   |                 |
| HITP-X6            | HITN-X6    | HITG-X6    | 10                | HITB-X8   | 6   |                   |                 |
| -                  | -          | -          | -                 | HITB-X9   | 8   |                   |                 |
| -                  | -          | -          | -                 | HITB-X10  | 10  |                   |                 |

| Table 4: BDPX...-         |                         |           |  |              |
|---------------------------|-------------------------|-----------|--|--------------|
| From size ...             | ... to size             | Material  | Mechanical risk  | Sealing ring |
| M12/PG7/PF 1/4" / NPT1/4" | M63/PG48/PF 2" / NPT 2" | polyamide | High (7J) at T <sub>2</sub> -40°C<br>Low (4J) at T<-40°C | Single       |
| M12/PG7/PF 1/4" / NPT1/4" | M32/PG21/PF 1" / NPT 1" |           | High (7J) at T <sub>2</sub> -40°C                        | Double       |
| M32/PG21/PF 1" / NPT 1"   | M63/PG48/PF 2" / NPT 2" |           | High (7J) at T <sub>2</sub> -40°C<br>Low (4J) at T<-40°C |              |

Annex to: IECEx IMQ 13.0003X issue No. 9

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

Apparatus: B...-...-...; B..DC-...-...; T...-...-...;  
HIB...-...; HIB...-(axb); HIB...-(DS); EHIB...-...; EHIB...-(DS);  
HIT...-... BDPX...-...



Key code:

| Table 2: key code |   |   |    |   |       |              |   |
|-------------------|---|---|----|---|-------|--------------|---|
| B                 | 1 | 3 | -  | 2 | 4     | - 5 - 6      | <p>1 Thread type: "N" – NPT ANSI ASME B1.20.1<br/>"M" – Metric ISO pitch 1,5 (ISO 965/1 and ISO 965/3)<br/>"P" – PG DIN 40430<br/>"PF" – ISO 228/1</p> <p>2 size and dimensions, according to Tables 3</p> <p>3 cap: "I" – blue cap for use in circuits Ex-i<br/>none – black cap<br/>"T"- Tampon blue print on black material</p> <p>(axb): dimensions in mm of sealing ring, as follows:<br/>type SXL 5,0x15,0<br/>type SXM 5,0x12,8<br/>type SXS 6,0x10,8</p> <p>(DS) double sealing ring (S1; S1+S2)<br/>DC double crowns (sealing rings)</p> <p>4 Sealing Material C: Chloroprene seal<br/>S: Silicone seal<br/>N: NBR (only codes H.. and EH..)</p> <p>5 Flat washer material Blank: Same material with sealing<br/>WF: Fiber washer<br/>WE: EPDM washer<br/>WN: NBR washer</p> <p>6 O-Ring material Blank: None<br/>OC: Chloroprene O-Ring<br/>OS: Silicone O-Ring<br/>OE: EPDM O-Ring</p> |
| B                 | 1 | 3 | DC | - | 2     | 4 - 5 - 6    |   |
| HIB               | 1 | 3 | -  | 2 | 4     | - 5 - 6      |   |
| EHIB              | 1 | 3 | -  | 2 | 4     | - 5 - 6      |   |
| HIB               | 1 | - | 2  | 4 | (axb) | - 5 - 6      |   |
| HIB               | 1 | 3 | -  | 2 | 4     | - (DS) 5 - 6 |   |
| EHIB              | 1 | 3 | -  | 2 | 4     | - (DS) 5 - 6 |   |
| T                 | 1 | - | 2  | 3 | -     | 4            | <p>1: Thread type: "N" – NPT ANSI ASME B1.20.1<br/>"P" – Metric ISO pitch 1,5 (ISO 965/1 and ISO 965/3)<br/>"B" – PG DIN 40430<br/>"G" – ISO 228/1</p> <p>2: size and dimensions, according to Tables 3</p> <p>3 Washer material Blank: None<br/>C: Chloroprene washer<br/>S: Silicone washer<br/>WF: Fiber washer<br/>WE: EPDM washer<br/>WN: NBR washer</p> <p>4 O-Ring material Blank: None<br/>OC: Chloroprene O-Ring<br/>OS: Silicone O-Ring<br/>OE: EPDM O-Ring</p>   |
| HIT               | 1 | - | 2  | 3 | -     | 4            |   |
| BDPX              | 1 | - | 2  | - | 2     | (3)          | <p>1: " " - Black colour<br/>"B" - Blue colour<br/>"G" - Green colour</p>   |

**Annex to:** IECEx IMQ 13.0003X issue No. 9

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

**Apparatus:** B...-...-...; B..DC-...-...; T...-...-...;  
HIB...-...; HIB...-(axb); HIB...-(DS); EHIB...-...; EHIB...-(DS);  
HIT...-... BDPX...-...-



|  |    |                                       |
|--|----|---------------------------------------|
|  | 2: | size and dimensions (example; -13-22) |
|  | 3: | Plug size (example PG11)              |

### Specific conditions of Use:

- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
- The cable glands/plugs and the relevant cables, shall be used where a protection against risk of mechanical damage is provided, when they are suitable for low mechanical risk (4J) only for B...-...; B..DC-... and T...-....
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- For gas installations (only for cable glands with M50/PG42/PF 1 1/2"/NPT 1 1/2" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.
- When cable glands are installed with polyamide insert BDPX...-..., mechanical risk have to be taken into account, depending on cable gland and insert cap. When insert cap 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).
- Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to this manufacturer's instruction.