

# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAE00003WU**  
Revision No:  
**3**

**This is to certify:**  
**that the Cable Gland**

with type designation(s)

**KBA, KBAO, KBAU, KBAT, KBA..LT, KBA..LSK, KBU, MKBU, KBA, KBA..LT, KBA..LSK, MKBU, TAURUS, OCTANS, EB...(axb), DORADO, PHOENIX, VIRGO, KBCTA, KBCTN, \*BBVP-X01, KBC, KBCO, KBCU, RKBCU, Metal adaptors and plugs (B-RA, B-RB, B-RM, B-RN, B-TS, MB-TS, NB-TS), VOL, VOLC, VOLF, VOLM, VOLS,VOLSC, VOLSF, VOLSM, VOLE, VOLEC, VOLEF, VOLEM, CRX, CRXC, CRCF, CRXM**

issued to

**BIMED TEKNIK ALETLER SANAYI VE TICARET A.S**  
**Arnavutkoy, Istanbul, Türkiye**

is found to comply with

**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application:

**Products approved by this certificate are accepted for installation on all vessels classed by DNV**

| Type                                                                  | Material | Suitable for open deck | Suitable for Hazardous areas |
|-----------------------------------------------------------------------|----------|------------------------|------------------------------|
| KBA, KBAO, KBAU, KBAT, KBA..LT, KBA..LSK, KBU, MKBU                   | Metalic  | Yes                    | Yes                          |
| KBA, KBA..LT, KBA..LSK, MKBU                                          | Metalic  | Yes                    | Yes                          |
| TAURUS                                                                | Metalic  | Yes                    | Yes                          |
| OCTANS                                                                | Metalic  | Yes                    | Yes                          |
| EB...(axb)                                                            | Metalic  | Yes                    | Yes                          |
| DORADO                                                                | Metalic  | Yes                    | Yes                          |
| PHOENIX                                                               | Metalic  | Yes                    | Yes                          |
| VIRGO                                                                 | Metalic  | Yes                    | Yes                          |
| KBCTA, KBCTN                                                          | Metalic  | Yes                    | Yes                          |
| *BBVP-X01                                                             | Metalic  | Yes                    | Yes                          |
| KBC, KBCO, KBCU, RKBCU                                                | Metalic  | Yes                    | Yes                          |
| Metal adaptors and plugs (B-RA, B-RB, B-RM, B-RN, B-TS, MB-TS, NB-TS) | Metalic  | Yes                    | Yes                          |
| VOL, VOLC, VOLF, VOLM                                                 | Metalic  | Yes                    | Yes                          |
| VOLS,VOLSC, VOLSF, VOLSM                                              | Metalic  | Yes                    | Yes                          |
| VOLE, VOLEC, VOLEF, VOLEM                                             | Metalic  | Yes                    | Yes                          |
| CRX, CRXC, CRCF, CRXM                                                 | Metalic  | Yes                    | Yes                          |



Job ID: **262.1-018821-10**  
Certificate no.: **TAE00003WU**  
Revision No: **3**

Issued at **Høvik** on **2025-10-12**

This Certificate is valid until **2028-10-30**.

DNV local unit: **Istanbul**

Approval Engineer: **Qiang William Guo**



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signature

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.  
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

## Product description

| Type                                   | KBA, KBAO, KBAU, KBAT, KBA..LT, KBA..LSK, KBU, MKBU                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC 60079-7:2017, IEC 62444:2010                                                                                                    |
| Classification Hazardous area          | Ex db IIC Gb and Ex eb IIC Gb ; Ex tb IIIC Db                                                                                                                                                 |
| Certification                          | IECEX CES 13.0013X ; CESI 13 ATEX 033X                                                                                                                                                        |
| Continuous operating temperature range | For Chloroprene rubber : -40°C to + 100°C (-40°C to + 80°C for KBALT)<br>For Silicon rubber : -60°C to + 130 °C (-60°C to + 80°C for KBALT)<br>Up to -20°C for galvanized carbon steel models |
| Ingress protection                     | IP66/IP68                                                                                                                                                                                     |
| Gland material                         | Brass, Aluminium, stainless steel or galvanized carbon steel                                                                                                                                  |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                                                                          |
| Cable type                             | Armoured, Non-armoured or Shielded                                                                                                                                                            |
| Gland sizes                            | Metric thread size:12,16,20,25,32,40,50,63,75,90,100,110,130<br>NPT thread size :1/4",3/8",1/2",3/4",1",1 1/4",1 1/2",2", 2 1/2",3", 3 1/2",4",5"                                             |

| Type                                   | KBA, KBA..LT, KBA..LSK, MKBU                                                                                                          |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC 60079-7:2017, IEC 62444:2010                                            |
| Classification Hazardous area          | Ex db I Mb ; Ex eb I Mb                                                                                                               |
| Certification                          | IECEX CES 13.0013X ; CESI 13 ATEX 033X                                                                                                |
| Continuous operating temperature range | For Chloroprene rubber : - 40°C to + 80°C<br>For Silicon rubber : - 60°C to + 80 °C<br>Up to -20°C for galvanized carbon steel models |
| Ingress protection                     | IP66/IP68                                                                                                                             |
| Gland material                         | Brass, stainless steel or galvanized carbon steel                                                                                     |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                  |
| Cable type                             | Armoured, Non-armoured or Shielded                                                                                                    |
| Gland sizes                            | Metric thread size: 20,25,32,40,50,63,75,90<br>NPT thread size :1/2",3/4",1",1 1/4",1 1/2",2", 2 1/2",3"                              |

| Type                                   | TAURUS (KBAT)                                                                                                                        |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC 60079-7:2017, IEC 62444:2010                                           |
| Classification Hazardous area          | Ex db IIC Gb and Ex eb IIC Gb ; Ex tb IIIC Db                                                                                        |
| Certification                          | IECEX CES 13.0013X ; CESI 13 ATEX 033X                                                                                               |
| Continuous operating temperature range | For Chloroprene rubber : -40°C to + 80°C<br>For Silicon rubber : -60°C to + 100 °C<br>Up to -20°C for galvanized carbon steel models |
| Ingress protection                     | IP66/IP68                                                                                                                            |
| Gland material                         | Brass, stainless steel or galvanized carbon steel                                                                                    |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                 |
| Cable type                             | Armoured, Non-armoured or Shielded                                                                                                   |
| Gland sizes                            | Metric thread size:16,20,25,32,40,50,63<br>NPT thread size :3/8",1/2",3/4",1",1 1/4",1 1/2",2"                                       |

| Type                                  | OCTANS (EBU, EBM, EBS, EBMC, EBLQ, EBLs, EBLN, EBMS)                                    |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Design specification/ Compliance code | IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-31:2013, IEC60079-7 :2015, IEC 62444:2010 |
| Classification Hazardous area         | Ex db IIC Gb and Ex eb IIC Gb ; Ex tb IIIC Db                                           |
| Certification                         | IMQ 13 ATEX 018X, IECEX IMQ 13.0006X                                                    |

|                                        |                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Continuous operating temperature range | For Chloroprene rubber: -40°C to + 80°C<br>For Silicon rubber: -60°C to + 80 °C<br>Up to -20°C for galvanized carbon steel models        |
| Ingress protection                     | IP66/68                                                                                                                                  |
| Gland material                         | Brass, Aluminium, stainless steel or galvanized carbon steel                                                                             |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                     |
| Cable type                             | Non-armoured                                                                                                                             |
| Gland sizes                            | Metric thread size:8,12,16,20,25,32,40,50,63,75,80,90,100, 110,115,130<br>NPT thread size:1/4",3/8",1/2",3/4",1",1¼",1½",2",2½",3, 4",5" |

|                                        |                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Type</b>                            | <b>EBU...(axb), EBM.....(axb), EBMC...(axb), EBS...(axb), EBLs...(axb), EBLQ...(axb), EBLN...(axb), EBMS...(axb)</b> |
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-31:2013, IEC60079-7 :2015, IEC 62444:2010                              |
| Classification Hazardous area          | Ex eb IIC Gb ; Ex tb IIIC Db                                                                                         |
| Certification                          | IMQ 13 ATEX 018X IECEx IMQ 13.0006X                                                                                  |
| Continuous operating temperature range | For Silicon rubber : - 60°C to + 140 °C<br>Up to -20°C for galvanized carbon steel models                            |
| Ingress protection                     | IP66/IP68                                                                                                            |
| Gland material                         | Brass, Aluminium, stainless steel or galvanized carbon steel                                                         |
| Seal material                          | Silicon rubber                                                                                                       |
| Cable type                             | Non armoured flat cable                                                                                              |
| Gland sizes                            | Metric thread size:20,25,<br>NPT thread size :1/2",3/4"                                                              |

|                                        |                                                                                                                           |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Type</b>                            | <b>DORADO (BA)</b>                                                                                                        |
| Design specification/ Compliance code  | EN60079-0:2009, EN60079-1:2007, EN60079-7:2007, EN60079-31:2009 , EN62444:2013                                            |
| Classification Hazardous area          | Ex d IIC Gb/ Ex e IIC Gb/ Ex d I Mb/ Ex e I Mb/ Ex tb IIIC Db IP66/68                                                     |
| Certification                          | IMQ 11 ATEX 036,                                                                                                          |
| Continuous operating temperature range | For Nitrile rubber: -30°C to + 120°C<br>For Chloroprene rubber: -40°C to + 100°C<br>For Silicone rubber: -60°C to + 180°C |
| Ingress protection                     | IP66/68                                                                                                                   |
| Gland material                         | Brass, Stainless steel                                                                                                    |
| Seal material                          | Nitrile rubber, chloroprene rubber or silicone rubber                                                                     |
| Cable type                             | Armoured                                                                                                                  |
| Gland sizes                            | Metric thread size: 16,20,25,32,40,50,63,75,90,110<br>NPT thread size: 3/8",1/2",3/4",1",1¼",1½",2",2½",3, 4"             |

|                                        |                                                                     |
|----------------------------------------|---------------------------------------------------------------------|
| <b>Type</b>                            | <b>PHOENIX (SV..H, ST..H)</b>                                       |
| Design specification/ Compliance code  | IEC 60079-0:2011, IEC 60079-7:2015 IEC 60079-31:2013 IEC 62444:2010 |
| Classification Hazardous area          | Ex eb IIC Gb/ Ex tb IIIC Db IP66/68                                 |
| Certification                          | IMQ 13 ATEX 029X, IECEx IMQ 14.0002X                                |
| Continuous operating temperature range | For Silicone rubber: -60°C to + 80°C                                |
| Ingress protection                     | IP66/68                                                             |
| Gland material                         | Brass, stainless steel                                              |
| Seal material                          | Silicone rubber                                                     |
| Cable type                             | Not armoured                                                        |
| Gland sizes                            | Metric thread size: 25<br>NPT thread size: 3/4"                     |

|                                        |                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------|
| <b>Type</b>                            | <b>VIRGO (BDRVY) drain valve</b>                                                         |
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-31:2013, IEC 60079-31:2022, IEC 60079-7:2017, IEC 62444:2010 |
| Classification Hazardous area          | Ex eb IIC Gb/ Ex tb IIIC Db IP66                                                         |
| Certification                          | IECEX_IMQ_14.0003X , IMQ 13 ATEX 030 X                                                   |
| Continuous operating temperature range | -60°C to + 85°C                                                                          |
| Ingress protection                     | IP66                                                                                     |
| Gland material                         | Brass, stainless steel                                                                   |
| Seal material                          | Silicon rubber                                                                           |
| Cable type                             |                                                                                          |
| Gland sizes                            | Metric thread size:20,25<br>NPT thread size: 1/2",3/4"                                   |

|                                        |                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type</b>                            | <b>Metal adaptors and plugs (B-RA, B-RB, B-RM, B-RN, B-TS, MB-TS, NB-TS )</b>                                                       |
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC 60079-7:2017, IEC 62444:2010                                          |
| Classification Hazardous area          | Ex db I Mb and Ex eb I Mb , Ex db IIC Gb and Ex eb IIC Gb ; Ex tb IIIC Db                                                           |
| Certification                          | IECEX CES 13.0022X , CESI 13 ATEX 066X                                                                                              |
| Continuous operating temperature range | For Chloroprene rubber : -40°C to + 100°C<br>For Silicon rubber : -60°C to + 130 °C<br>For galvanized carbon steel: -20°C to +100°C |
| Ingress protection                     | IP66/68                                                                                                                             |
| Gland material                         | Brass, stainless steel, galvanized carbon steel                                                                                     |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                |
| Gland sizes                            | Metric thread size: 16,20,25,32,40,50,63,75,90,110<br>NPT thread size: 3/8",1/2",3/4",1",1 1/4",1 1/2",2",2 1/2",3, 4"              |

|                                        |                                                                                                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Type</b>                            | <b>KBCTA, KBCTN</b>                                                                                             |
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC 60079-7:2017, IEC 62444:2010                      |
| Classification Hazardous area          | Ex db I Mb ; Ex eb I Mb ; Ex db IIC Gb ;<br>Ex eb IIC Gb ; Ex tb IIIC Db                                        |
| Certification                          | IECEX CES 17.0029X and CESI 17 ATEX 007X                                                                        |
| Continuous operating temperature range | For silicone rubber : - 60°C to + 100°C                                                                         |
| Ingress protection                     | IP66/IP68                                                                                                       |
| Gland material                         | Brass or stainless steel                                                                                        |
| Seal material                          | Silicone                                                                                                        |
| Cable type                             | Armoured (for KBCTA), Non-Armoured (for KBCTN)                                                                  |
| Gland sizes                            | Metric thread size:16,20,25,32,40,50,63,75,90<br>NPT thread size :3/8",1/2",3/4",1",1 1/4",1 1/2",2", 2 1/2",3" |

|                                       |                                                                       |
|---------------------------------------|-----------------------------------------------------------------------|
| <b>Type</b>                           | <b>*BBVP-X01</b>                                                      |
| Design specification/ Compliance code | IEC 60079-0:2017, IEC 60079-31:2013, IEC 60079-7:2017, IEC 62444:2010 |

|                                        |                                                                                         |
|----------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Type</b>                            | <b>*BBVP-X01</b>                                                                        |
| Classification Hazardous area          | Ex eb IIC Gb/ Ex tb IIIC Db IP66                                                        |
| Certification                          | IECEX_IMQ_14.0003X and IMQ 13 ATEX 030 X                                                |
| Continuous operating temperature range | For NBR rubber : - 40°C to + 100°C                                                      |
| Ingress protection                     | IP66/IP68                                                                               |
| Gland material                         | Stainless steel                                                                         |
| Seal material                          | NBR                                                                                     |
| Cable type                             |                                                                                         |
| Gland sizes                            | Metric thread size:From M12<br>NPT thread size : From 1/4"<br>PG thread size : From PG7 |

|                                        |                                                                                                                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type</b>                            | <b>KBC, KBCO, KBCU, RKBCU</b>                                                                                                                                |
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC 60079-7:2015, IEC 62444:2010                                                                   |
| Classification Hazardous area          | Ex db I Mb ; Ex eb I Mb ; Ex db IIC Gb ;<br>Ex eb IIC Gb ; Ex tb IIIC Db                                                                                     |
| Certification                          | IECEX CES 17.0042X and CESI 17 ATEX 033X                                                                                                                     |
| Continuous operating temperature range | - 60°C to + 80 °C                                                                                                                                            |
| Ingress protection                     | IP66/IP68                                                                                                                                                    |
| Gland material                         | Brass, stainless steel or galvanized carbon steel                                                                                                            |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                                         |
| Cable type                             | Armoured, Non-armoured or Shielded                                                                                                                           |
| Gland sizes                            | Metric thread size:From<br>M16,M20,M25,M32,M40,M50,M63,M75,M80,M90,M100<br>NPT thread size : From 3/8",1/2",3/4",1",1 1/4", 1 1/2",2", 2 1/2",3", 3 1/2", 4" |

|                                        |                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type</b>                            | <b>VOL, VOLC, VOLF, VOLM</b>                                                                                                                             |
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC60079-7 :2017                                                                               |
| Classification Hazardous area          | Ex db I Mb and Ex eb I Mb and/or Ex db IIC Gb and Ex eb IIC Gb and Ex tb IIIC Db                                                                         |
| Certification                          | IECEX CES 22.0009X; CESI 21 ATEX 031X                                                                                                                    |
| Continuous operating temperature range | -60°C to + 130°C                                                                                                                                         |
| Ingress protection                     | IP66/IP68                                                                                                                                                |
| Gland material                         | Brass, Options: Stainless steel, Galvanized carbon steel or Nickel-plated Brass                                                                          |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                                     |
| Cable type                             | Circular cable                                                                                                                                           |
| Gland sizes                            | Metric thread size:12,16,20,25,32,40,50,63,75,80,90,100,110,115,130<br>NPT thread size :1/4",3/8",1/2",3/4",1",1 1/4",1 1/2",2", 2 1/2",3", 3 1/2",4",5" |

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| <b>Type</b>                           | <b>VOLS, VOLSC, VOLSF, VOLSM</b>                                                 |
| Design specification/ Compliance code | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC60079-7 :2017       |
| Classification Hazardous area         | Ex db I Mb and Ex eb I Mb and/or Ex db IIC Gb and Ex eb IIC Gb and Ex tb IIIC Db |
| Certification                         | IECEX CES 22.0009X; CESI 21 ATEX 031X                                            |

| Type                                   | VOLS, VOLSC, VOLSF, VOLSM                                                                                                                                |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Continuous operating temperature range | -60°C to + 130°C                                                                                                                                         |
| Ingress protection                     | IP66/IP68                                                                                                                                                |
| Gland material                         | Brass, Options: Stainless steel, Galvanized carbon steel or Nickel-plated Brass                                                                          |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                                     |
| Cable type                             | Circular cable                                                                                                                                           |
| Gland sizes                            | Metric thread size:12,16,20,25,32,40,50,63,75,80,90,100,110,115,130<br>NPT thread size :1/4",3/8",1/2",3/4",1",1 1/4",1 1/2",2", 2 1/2",3", 3 1/2",4",5" |

| Type                                   | VOLE, VOLEC, VOLEF, VOLEM                                                                                                                                |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC60079-7 :2017                                                                               |
| Classification Hazardous area          | Ex eb IIC Gb and Ex tb IIIC Db                                                                                                                           |
| Certification                          | IECEX CES 22.0009X; CESI 21 ATEX 031X                                                                                                                    |
| Continuous operating temperature range | -60°C to + 130°C                                                                                                                                         |
| Ingress protection                     | IP66                                                                                                                                                     |
| Gland material                         | Brass, Options: Stainless steel, Galvanized carbon steel or Nickel-plated Brass                                                                          |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                                     |
| Cable type                             | Circular cable                                                                                                                                           |
| Gland sizes                            | Metric thread size:12,16,20,25,32,40,50,63,75,80,90,100,110,115,130<br>NPT thread size :1/4",3/8",1/2",3/4",1",1 1/4",1 1/2",2", 2 1/2",3", 3 1/2",4",5" |

| Type                                   | CRX, CRXC, CRCF, CRXM                                                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design specification/ Compliance code  | IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-31:2013, IEC60079-7 :2017                                                                               |
| Classification Hazardous area          | Ex eb IIC Gb and Ex tb IIIC Db                                                                                                                           |
| Certification                          | IECEX CES 22.0009X; CESI 21 ATEX 031X                                                                                                                    |
| Continuous operating temperature range | -60°C to + 130°C                                                                                                                                         |
| Ingress protection                     | IP66/68                                                                                                                                                  |
| Gland material                         | Brass, Options: Stainless steel, Galvanized carbon steel or Nickel-plated Brass                                                                          |
| Seal material                          | Chloroprene rubber or silicon rubber                                                                                                                     |
| Cable type                             | Circular cable                                                                                                                                           |
| Gland sizes                            | Metric thread size:12,16,20,25,32,40,50,63,75,80,90,100,110,115,130<br>NPT thread size :1/4",3/8",1/2",3/4",1",1 1/4",1 1/2",2", 2 1/2",3", 3 1/2",4",5" |

## Name and place of manufacturer

Özar Sanayi Bölgesi, Deliklikaya Mh. Yüzbaşı Mehmet Hilmi  
Cd. No. 28/1 34555 Arnavutkoy - Türkiye

## Application/Limitation

Manufacturer's application and assembly instructions shall be followed.

The information related to Ex certification from recognized test institution is given as information only. Applications where Ex certified equipment is required will in general be subject to approval case by case based on documentation as required in DNV rules.

## Type Approval documentation

IECEX Test Reports Nos. IT/IMQ/ExTR14.0002/02 dated 2016-09-08, IT/CES/ExTR17.007/02 dated 2017-05-08, IT/CES/ExTR15.002/01 dated 2017-05-08, IT/CES/ExTR17.004/01 dated 2017-05-21,

Documentation linked to App. Letter with Ref. MCANO381/PONT/262.1-018821-J-13 dated 06.02.2015

Technical info <TAE00004T4>:

Bimed Technival note «Volans Ex-db cable gland series» document no. A4-TN-VOL1 rev 00 dated 2021-10-11.

Test reports:

IECEX Test Reports Nos. IT/CEX/ExTR22.0013/02 dated 2022-04-18,

IECEX Certificate of compliance, certificate no. IECEX CES 22.0009X dated, 2022-04-14,

CESI EU-TYPE EXAMINATION CERTIFICATE, certificate no. CESI 21 ATEX 031X, dated 2022-04-11

## Tests carried out

Type tests in accordance with IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31, IEC/EN60079-1 & IEC/EN 62444

## Marking of product

BMD – type designation – Ex rating

## Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the periodical assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routines (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE