DNV·GL

Certificate No:
TAE00003WV

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)
B.-X, HIB.-X, HIB. (DS), HITP-X (plug), B.-X(axb), HIB.-X(axb), T.-X (plug), EHIB.- / EHIB.- (DS)

Issued to
BIMED TEKNIK ALETLER SAN. TIC. A.S.
ISTANBUL, Turkey

is found to comply with
DNV GL 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 GL.

Type	Material	Suitable for open deck	Suitable for Hazardous areas
B.-X	Non-metalic	Yes	Yes
HIB.-X, HIB. (DS)	Non-metalic	Yes	Yes
HITP-X (plug)	Non-metalic	Yes	Yes
B.-X(axb), HIB.-X(axb)	Non-metalic	Yes	Yes
T.-X (plug)	Non-metalic	Yes	Yes
EHIB.- / EHIB.- (DS)	Non-metalic	Yes	Yes

Issued at **Høvik** on **2020-06-08**
This Certificate is valid until **2024-06-30**.
DNV GL local station: **Istanbul**

for **DNV GL**

Approval Engineer: **Nicolay Horn**

Marta Alonso Pontes
Head of Section

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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

Polyamide cable glands :

Type	**B.-X**
Design specification/ Compliance code	IEC 60079-0:2011, IEC 60079-31:2008, IEC 60079-7:2006, IEC 62444 :2010
Classification Hazardous area	Ex eb IIC Gb/ Ex tb IIIC Db IP66/68
Certification	IMQ 13 ATEX 010X, IECEx IMQ 13.0003X
Continuous operating temperature range	-40°C to + 80°C
Ingress protection	IP66/IP68
Gland material	Non metallic (polyamide)
Seal material	Chloroprene or silicone rubber
Cable type	Non armoured
Gland sizes	Metric thread size: 20,25,32,40,50,63 NPT thread size : 1/2”,3/4”,1” PG thread size: 13.5, 16, 21, 29, 36, 42, 48
Accessories	Tap BPM-X; BPT-X, BDPX

Type	**HIB.-X, HIB. (DS)**
Design specification/ Compliance code	IEC 60079-0:2011, IEC 60079-31:2008, IEC 60079-7:2006, IEC 62444 :2010
Classification Hazardous area	Ex eb IIC Gb/ Ex tb IIIC Db IP66/68
Certification	IMQ 13 ATEX 010X, IECEx IMQ 13.0003X
Continuous operating temperature range	-30°C to + 70°C (NBR sealing) -40°C to + 70°C (Chloroprene sealing) -60°C to + 70°C (Silicone sealing)
Ingress protection	IP66/IP68
Gland material	Non metallic (polyamide)
Seal material	Chloroprene or silicone rubber
Cable type	Non armoured
Gland sizes	Metric thread size: 12, 16, 20,25,32,40,50,63 NPT thread size : 1/2”,3/4”,1” PG thread size: 7, 9, 11, 13.5, 16, 21, 29, 36, 42, 48
Accessories	Tap BPM-X; BPT-X, BDPX

Polyamide cable glands for non circular:

Type	**BM-X (axb)**
Design specification/ Compliance code	IEC 60079-0:2011, IEC 60079-31:2008, IEC 60079-7:2006, IEC 62444 :2010
Classification Hazardous area	Ex eb IIC Gb/ Ex tb IIIC Db IP66/68
Certification	IMQ 13 ATEX 011X, IECEx IMQ 13.0004X
Continuous operating temperature range	-40°C to + 80°C -60°C to + 80°C
Ingress protection	IP66/IP68
Gland material	Non metallic (polyamide)
Seal material	Chloroprene or silicone rubber
Cable type	Non armoured
Gland sizes	Metric thread size: 20, 25, 32 NPT thread size : 1/2”, 3/4”, 1”

Plugs:

Type	**HITP-X**
Design specification/ Compliance code	IEC 60079-0:2011, IEC 60079-31:2008, IEC 60079-7:2006, IEC 62444 :2010
Classification Hazardous area	Ex eb IIC Gb/ Ex tb IIIC Db IP66/68
Certification	IMQ 13 ATEX 010X, IECEx IMQ 13.0003X
Continuous operating temperature range	-60°C to + 70°C -40°C to + 70°C
Ingress protection	IP66/IP68
Gland material	Non metallic (polyamide)
Seal material	Chloroprene or silicone rubber
Cable type	Non armoured
Gland sizes	Metric thread size: 12, 16, 20, 25,3 2, 40, 50, 63 NPT thread size : 1/2", 3/4",1"

Type	**TP-X**
Design specification/ Compliance code	IEC 60079-0:2011, IEC 60079-31:2008, IEC 60079-7:2006, IEC 62444 :2010
Classification Hazardous area	Ex eb IIC Gb/ Ex tb IIIC Db IP66/68
Certification	IMQ 13 ATEX 010X, IECEx IMQ 13.0003X
Continuous operating temperature range	-40°C to + 80°C
Ingress protection	IP66/IP68
Gland material	Non metallic (polyamide)
Seal material	Chloroprene rubber
Cable type	Non armoured
Gland sizes	Metric thread size: 12, 16, 20, 25, 32, 40, 50, 63

Type	**EHIB-./, EHIB-.(DS)**
Design specification/ Compliance code	IEC 60079-0:2011, IEC 60079-31:2008, IEC 60079-7:2006, IEC 62444 :2010
Classification Hazardous area	Ex eb IIC Gb/ Ex tb IIIC Db
Certification	IMQ 13 ATEX 010X, IECEx IMQ 13.0003X
Continuous operating temperature range	-40°C to + 70°C (Chloroprene sealing) -60°C to + 70°C (Silicone sealing)
Ingress protection	IP66/IP68
Gland material	Non metallic (polyamide)
Seal material	Chloropreneor or silicone rubber
Cable type	Non armoured
Gland sizes	Metric thread size: 12, 16, 20, 25, 32, 40, 50, 63

Application/Limitation

Hazardous areas cable glands & cable gland's accessories. 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 GL rules.

Job Id: **262.1-018821-2**
Certificate No: **TAE00003WV**

Name and place of manufacturer

BIMED TEKNIK ALETLER SAN. TIC. A.S. Istanbul, Turkey	BIMED TEKNIK Romania SLR Arges, Romania

Type Approval documentation

Tests carried out

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