



# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAE00003WV**  
Revision No:  
**1**

**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 TEKNİK ALETLER SAN. TIC. A.S.**  
**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
<b>B.-X</b>	<b>Non-metallic</b>	<b>Yes</b>	<b>Yes</b>
<b>HIB.-X, HIB. (DS)</b>	<b>Non-metallic</b>	<b>Yes</b>	<b>Yes</b>
<b>HITP-X (plug)</b>	<b>Non-metallic</b>	<b>Yes</b>	<b>Yes</b>
<b>B.-X(axb), HIB.-X(axb)</b>	<b>Non-metallic</b>	<b>Yes</b>	<b>Yes</b>
<b>T.-X (plug)</b>	<b>Non-metallic</b>	<b>Yes</b>	<b>Yes</b>
<b>EHIB.- / EHIB.- (DS)</b>	<b>Non-metallic</b>	<b>Yes</b>	<b>Yes</b>

Issued at **Høvik** on **2024-10-31**

for **DNV**

This Certificate is valid until **2029-10-30**.

DNV local unit: **Istanbul**

Approval Engineer: **Qiang William Guo**

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

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, 32, 40, 50, 63 NPT thread size : 1/2", 3/4", 1"

<b>Type</b>	<b>TP-X</b>
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

<b>Type</b>	<b>EHIB-/, EHIB-.(DS)</b>
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	Chloroprene 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.

## Name and place of manufacturer

BIMED TEKNIK ALETLER SAN. TIC. A.S.  
 Istanbul, Turkey

## Type Approval documentation

Documentation linked to App. Letter with Ref. MCANO381/PONT/262.1-018821-J-16 dated 06.02.2015.

### 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