

EU-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System intended for use in potentially explosive atmospheres - Directive 2014/34/EU – Annex III – MODULE B: EU-TYPE EXAMINATION

- [3] EU-type Examination Certificate number: IMQ 13 ATEX 010X
- [4]
 PRODUCT:
 Polyamide cable glands for circular/non circular cables and plugs

 TYPE/SERIES:
 B..-..-; B..DC-..--; HIB..-..-; HIB.-..(axb)-.-.; HIB..-..-(DS).-.; EHIB..-..-;

 EHIB..-..-(DS).-.; HIT.-..-; BDPX-.-.
- [5] MANUFACTURER: Bimed Teknik Aletler San. Ve Tic. A.Ş.
- [6] ADDRESS: S.S Bakır ve Pirinç Sanayi Sitesi
 - Leylak Cd. No:16 34524 Beylikdüzü Istanbul Turkey
- [7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.
- [8] IMQ, notified body N° 0051, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in Report No.: AT21-0072183-01_B

[9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, has been assured by compliance with:

EN IEC 60079-0:2018; EN IEC 60079-7:2015+A1:2018; EN 60079-31:2014

- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate
- [11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the equipment or protective system shall include the following:

Ex eb IIC Gb II 2 GD Ex tb IIIC Db

THIS CERTIFICATE CANCELS AND REPLACES THE PREVIOUS ONE. IT INCLUDES 1 ANNEX.

FIRST ISSUE	2013/06/19
CURRENT ISSUE	2021/12/15
PREVIOUS ISSUE	2021/09/28
EXPIRING DATE	2031/12/14

B.U. PRODUCT CONFORMITY ASSESSMENT CERTIFICATION SECTOR - MANAGER

This Certificate may only be reproduced in its entirety and without any change. It is subject to the general rules for assessing conformity to community directives for which IMQ operates as notified body n°. 0051 and to the special requirements for Directive2014/34/EU (ATEX) "Equipment and protective systems for potentially explosive atmospheres" annex III - MODULE B – EU Type-examination.



PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements





[14] EU-type Examination Certificate number: IMQ 13 ATEX 010X

[15] **Description of product:**

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



PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements



[14] EU-type Examination Certificate number: IMQ 13 ATEX 010X

Series	Service temperature 1	Sealing rings material	Flatwas her materials	OR materials	Mechanical risk	
	temperature -		chloroprene (neoprene) s ilicone	chloroprene (neoprene)	IBK	
В	-40 ÷ +80 °C ²	chloroprene (neoprene) s ilicone	KLINGERSIL® C-4400 EPDMrubber NBR	silicone EPDMrubber	Low (4J)	
BM-X2S, BM-SX5S, BM-SX7S	-40 ÷ +85 °C	s ilicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDMrubber NBR	chloroprene (neoprene) s ilicone EPDMrubber	Low (4J)	
B.DC	-40 ÷ +80 °C ²	chloroprene (neoprene) s ilicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDMrubber NBR	chloroprene (neoprene) s ilicone EPDM rubber	Low (4J)	
Т.,	-40 ÷ +80 °C	-	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDMrubber NBR	-	Low (4J)	
	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone	chloroprene (neoprene)		
HIB	-40 ÷ +70 °C	chloroprene (neoprene)	KLINGERSIL® C-4400	silicone	High (7J)	
[-80 ÷ +70 °C	s ilicone	EPDMrubber NBR	EPDMrubber		
	-30 ÷ +70 °C	NBR	chloroprene (neoprene) s ilicone	chloroprene (neoprene)		
EHIB	-40 ÷ +70 °C	chloroprene (neoprene)	KLINGERSIL® C-4400	silicone	High (7J)	
	-80 ÷ +70 °C	s ilicone	EPDM rubber NBR	EPDMrubber		
HIB(axb)	-80 ÷ +70 °C	s ilicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDMrubber NBR	chloroprene (neoprene) silicone EPDMrubber	High (7J)	
	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone	chloroprene (neoprene)	High (7J)	
HIB(DS)	-40 ÷ +70 °C	chloroprene (neoprene)	KLINGERSIL® C-4400	s ilicone		
[-80 ÷ +70 °C ²	s ilicone	EPDMrubber NBR	EPDMrubber		
	-30 ÷ +70 °C	NBR	chloroprene (neoprene) s ilicone	chloroprene (neoprene)		
EHIB(DS)	-40 ÷ +70 °C	chloroprene (neoprene)	KLINGERSIL® C-4400	silicone	High (7J)	
	-80 ÷ +70 °C	s ilicone	EPDMrubber NBR	EPDMrubber		
	-30 ÷ +70 °C		NBR			
HITX	-40 ÷ +70 °C]	chloroprene (neoprene) EPDMrubber		High (7J)	
	-80 ÷ +70 °C		s ilicone		niĝn (73)	
	-80 ÷ +70 °C	1	KLINGERSIL® C-4400]		

ther (-50+130°C). The use of these materials in flat was her/OK has to be taken into account in determination of lower limit of service temperatu glands, while upper limit is 80°C for BX-, BC-, Ta-, and 70°C for all other models.
* When us ed blue caps (B.F.; B.IDC-,) and/or BP-, protection tap is used, the service temperature is -40+70°C. Low mechanical risk (4J).

[15.1] Models/Series Identification:

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

- \$1 means single sealing ring mounted inside cable gland.
- \$1+\$2 means double sealing rings mounted inside cable gland.

PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements



[14] EU-type Examination Certificate number: IMQ 13 ATEX 010X

		Table 3.1: B;	BDC		
Model	Thread	Min-max cable [mm]	Recommended Torque value (cap) [Nm]	Recommended torque value (body) [Nm]	Mechanical risk
BMSX2	M20x1.5	5,0-10,0	2,5	2,5	
BMX2	M20x1.5	6,0-12,0	5,0	5,0	
BMX2L	M20x1.5	6,0-12,0	5,0	5,0	
BMX3	M20x1.5	10,0-14,0	5,5	5,5	
BMX4	M20x1.5	10,0-14,0	5,5	5,5	
BMSX5	M25x1.5	10,0-14,0	5,5	5,5	
BMX5	M25x1.5	13,0-18,0	7,0	7,0	
BMSX6	M25x1.5	10,0-14,0	5,5	5,5	
BMX6	M25x1.5	13,0-18,0	7,0	7,0	Low (4J)
BMXEU25	M25x1.5	11,0-17,0	5,0	5,0	LOW (43)
BMXEU32	M32x1.5	15,0-21,0	6,0	6,0	
BMSX7	M32x1.5	13,0-18,0	7,0	7,0	
BMX7	M32x1.5	18,0-25,0	9,0	9,0	
BMXEU40	M40x1.5	19,0-28,0	5,0	5,0	
BMXEU40L	M40x1.5	19,0-28,0	5,0	5,0	
BMX8	M40x1.5	22,0-32,0	17,0	17,0	
BMX9	M50x1.5	30,0-38,0	22,0	22,0	
BMX10	M63x1.5	34,0-44,0	23,0	23,0	
BNSX2	NPT 1/2"	5,0-10,0	2,5	2,5	1 (41)
BNX2	NPT 1/2"	6,0-12,0	5,0	5,0	Low (4J)
BNLX2	NPT 1/2"	10,0-14,0	5,5	5,5	
BNX3	NPT 3/4"	13,0-18,0	7,0	7,0	
BNX4	NPT 1"	18,0-25,0	9,0	9,0	
BNX8	NPT 1 ¼"	22,0-32,0	17,0	17,0	
BNX9	NPT 1 1/2"	30,0-38,0	22,0	22,0	
BNX10	NPT 2"	34,0-44,0	23,0	23,0	
BPFSX2	PF 1/2"	5,0-10,0	2,5	2,5	
BPFX2	PF 1/2"	6,0-12,0	5,0	5,0	
BPFLX2	PF 1/2"	10,0-14,0	5,5	5,5	Low (4J)
BPFX3	PF 3/4"	13,0-18,0	7,0	7,0	
BPFX4	PF 1"	18,0-25,0	9,0	9,0	
BPX4	PG 13,5	6,0-12,0	5,0	5,0	
BPX5	PG 16	10,0-14,0	5,5	5,5	
BPX6	PG 21	13,0-18,0	7,0	7,0	
BPX7	PG 29	18,0-25,0	9,0	9,0	Low (4J)
BPX8	PG 36	22,0-32,0	17,0	17,0	
BPX9	PG 42	30,0-38,0	22,0	22,0	
BPX10	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)

Table 3.2: T									
	Mo	odel	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	1				
TP-X2	TN-X2	TG-X2	TB-X2	2.5	Low (4J)				
TP-X3	TN-X3	TG-X3	TB-X3	4	LOW (41)				
TP-X4	TN-X4	TG-X4	TB-X4	6	1				
TP-X5	TN-X5	TG-X5	TB-X5	8	1				
TP-X6	TN-X6	TG-X6	TB-X6	10					



Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements

PRD N° 005 B



[14] EU-type Examination Certificate number: IMQ 13 ATEX 010X

Table 3.3: HIB; EHIB									
M	Model		Model		Model		Torque value (cap) [Nm]	Recommended torque value (body) [Nm]	Mechanical risk
HIBOXS	EHIBOXS	4-6.5	2	2					
HIBXS	EHIBXS	4-6.5	2	2					
HIBSX1	EHIBSX1	5-8	4	4					
HIBSX1L	EHIBSX1L	5-8	4	4					
HIBX1	EHIBX1	6-10	4	4					
HIBX1L	EHIBX1L	6-10	4	4					
HIBSX2	EHIBSX2	6-10	2.5	2.5					
HIBX2	EHIBX2	7-12	5	5					
HIBX2L	EHIBX2L	7-12	5	5					
HIBMX2	EHIBMX2	7-13	4.5	4.5					
HIBX3	EHIBX3	11-14	5.5	5.5	15-6 (71)				
HIBX4	HIBX4 EHIBX4		5.5	5.5	High (7J)				
HIBSX5	EHIBSX5	11-14	5.5	5.5					
HIBSX6	EHIBSX6	11-14	5.5	5.5					
HIBXEU25	EHIBXEU25	12-17	5	5					
HIBXEU25L	EHIBXEU25L	12-17	5	5					
HIBX5	EHIBX5	14-18	8	8					
HIBX6	EHIBX6	14-18	8	8					
HIBSX7	EHIBSX7	14-18	8	8					
HIBXEU32	EHIBXEU32	16-21	6	6					
HIBXEU32L	EHIBXEU32L	16-21	6	6					
HIBX7	EHIBX7	19-25	9	9					
HIBXEU40	EHIBXEU40	20-28	5	5					
HIBXEU40L	EHIBXEU40L	20-28	5	5					
HIBX8	EHIBX8	23-32	17.5	17.5					
HIBX9	EHIBX9	31-38	22	22					
HIBX10	EHIBX10	35-44	24	24					

Table 3.4: HIB(axb)									
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]	Mechanica risk		
100.005	6,0x10,8	HIBSX5 (6,0x10,8)	4,21×11,69	5,23 x 13,21					
HIBSX5	5,0x12,8	HIBSX5 (5,0x12,8)	5,03 × 12,50	6,05 x 14,02	1				
	6,0x10,8	HIBX5 (6,0x10,8)	4,21×11,69	5,23 x 13,21	1				
HIBX5	5,0x12,8	HIBX5 (5,0x12,8)	5,03 x 12,50	6,05 x 14,02	1				
	5,0x15,0	HIBX5 (5,0x15,0)	6,09 x 13,72	7,11 x 15,24	1				
HIB	6,0x10,8	HIBXEU25 (6,0x10,8)	4,21×11,69	5,23 x 13,21	1				
HIB XEU25	5,0x12,8	HIBXEU25 (5,0x12,8)	5,03 x 12,50	6,05 x 14,02	1				
AEU25	5,0x15,0	HIBXEU25 (5,0x15,0)	6,09 x 13,72	7,11 x 15,24	8	8	15-6 (71)		
LUD OVC	6,0x10,8	HIBSX6 (6,0x10,8)	4,21×11,69	5,23 x 13,21	1 °	°	High (7J)		
HIBSX6	5,0x12,8	HIBSX6 (5,0x12,8)	5,03 x 12,50	6,05 x 14,02	1				
	6,0x10,8	HIBX6 (6,0x10,8)	4,21×11,69	5,23 x 13,21	1				
HIBX6	5,0x12,8	HIBX6 (5,0x12,8)	5,03 x 12,50	6,05 x 14,02	1				
	5,0x15,0	HIBX6 (5,0x15,0)	6,09 x 13,72	7,11 x 15,24	1				
	6,0x10,8	HIBXEU25L (6,0x10,8)	4,21×11,69	5,23 x 13,21	1				
HIB XEU25L	5,0x12,8	HIBXEU25L (5,0x12,8)	5,03 x 12,50	6,05 x 14,02	1				
AEU25L	5,0x15,0	HIBXEU25L (5,0x15,0)	6,09 x 13,72	7,11 x 15,24	1				



Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements

PRD N° 005 B



[14] EU-type Examination Certificate number: IMQ 13 ATEX 010X

Table 3.5: HIB(DS); EHIB(DS)									
м	Min-max c	able [mm]	Torque valu	e (cap) [Nm]	Recommended torque	Mechanical risk			
		S1+S2	S1	S1+S2	S1	value (body) [Nm]			
HIBOXS(DS)	EHIB OXS(DS)	3-4	4-6.5	1	2	2			
HIBXS(DS)	EHIBXS(DS)	3-4	4-6.5	1	2	2			
HIBSX1(DS)	EHIBSX1(DS)	4-5	5-8	3.5	4	4			
HIBSX1L(DS)	EHIBSX1L(DS)	4-5	5-8	3.5	4	4			
HIBX1(DS)	EHIBX1(DS)	4-6	6-10	3.5	4	4			
HIBX1L(DS)	EHIB X1L(DS)	4-6	6-10	3.5	4	4			
HIBSX2(DS)	EHIBSX2(DS)	4-6	6-10	3.2	2.5	2.5			
HIBX2(DS)	EHIBX2(DS)	6-7.5	7.5-12	5	5	5			
HIBX2L(DS)	EHIB X2L(DS)	6-7.5	7.5-12	5	5	5			
HIBMX2(DS)	EHIBMX2(DS)	4-7	7-13	3.5	4.5	4.5	High (7J)		
HIBX3(DS)	EHIBX3(DS)	8-11	11-14	5.5	5.5	5.5			
HIBX4(DS)	EHIBX4(DS)	8-11	11-14	5.5	5.5	5.5			
HIBSX5(DS)	EHIBSX5(DS)	8-11	11-14	5.5	5.5	5.5	High (7J)		
HIBSX6(DS)	EHIBSX6(DS)	8-11	11-14	5.5	5.5	5.5			
HIBXEU25(DS)	EHIB XEU25(DS)	9-13	13-17	5	5	5			
HIBXEU25L(DS)	EHIBXEU25L(DS)	9-13	13-17	5	5	5	1		
HIBX5(DS)	EHIBX5(DS)	10-13	13-18	5.5	8	8			
HIBX6(DS)	EHIBX6(DS)	10-13	13-18	5.5	8	8			
HIBSX7(DS)	EHIBSX7(DS)	10-13	13-18	5.5	8	8			
HIBXEU32(DS)	EHIBXEU32(DS)	12-16	16-21	4.5	6	6			
HIBXEU32L(DS)	EHIBXEU32L(DS)	12-16	16-21	4.5	6	6			
HIBX7(DS)	EHIBX7(DS)	14-20	20-25	8	9	9			
HIBXEU40(DS)	EHIBXEU40(DS)	17-21	21-28	5	5	5			
HIBXEU40L(DS)	EHIB XEU40L(DS)	17-21	21-28	5	5	5			
HIBX8(DS)	EHIBX8(DS)	21-25	23-32	15	17.5	17.5			
HIBX9(DS)	EHIBX9(DS)	22-31	31-38	18	22	22			
HIBX10(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				
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	High (7J)			
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"		High (7J) at T≥-40°C Low (4J) at T<-40°C	Single					
M12/PG7/PF 1/4"/ NPT1/4"	M32/PG21/PF 1"/ NPT 1"	polyamide	High (7J) at T≥-40°C	Deutle					
M32/PG21/PF 1"/ NPT 1"	M63/PG48/PF 2"/ NPT 2"		High (7J) at T≥-40°C Low (4J) at T<-40°C	Double					





PRD N° 005 B

This Certificate may only be reproduced in its entirety and without any change. It is subject to the general rules for assessing conformity to community directives for which IMQ operates as notified body n°. 0051 and to the special requirements for Directive2014/34/EU (ATEX) "Equipment and protective systems for potentially explosive atmospheres" annex III - MODULE B – EU Type-examination.

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements



[14] EU-type Examination Certificate number: IMQ 13 ATEX 010X

Key code:

Table 2: key code										
B	1	3	-	2	4 -	5 -	6		1 Thread type:	"N" – NPT ANSI ASME B1.20.1 "M" – Metric ISO pitch 1,5 (ISO 965/1 and
В	1	3	DC	-	2	4 -	5 -	6		ISO 965/3) "P" – PG DIN 40430 "PF" – ISO 228/1
HIB	1	3	-	2	4 -	5 -	6			PF - 150 226/1
EHIB	1	3	-	2	4 -	5 -	6		2 size and dime	nsions, according to Tables 3
HIB	1	-	2	4	(axb) -	5 -	6			
HIB	1	3	-	2	4 -	(DS)	5 -	6	3 cap:	"I" – blue cap for use in circuits Ex-i
EHIB	1	3	-	2	4 -	(DS)	5 -	6		none – black cap "T"- Tampon blue print on black material
									(axb): dimensior type SXL	ns in mm of sealing ring, as follows: 5,0x15,0
									type SXL	5,0x12,8
									type SXS	6,0x10,8
									(DS) DC	double sealing ring (S1; S1+S2) double crowns (sealing rings)
									4 Sealing Material	C: Chloroprene seal
										S: Silicone seal
										N: NBR (only codes H and EH)
									5 Flat washer	Blank: Same material with sealing
									material	WF: Fiber washer
										WE: EPDM washer
										WN: NBR washer
									6 O-Ring material	Blank: None
									material	OC: Chloroprene O-Ring
										OS: Silicone O-Ring
							<u>.</u>			OE: EPDM O-Ring
Т	1	-	2	3 -	4				1: Thread type:	"N" – NPT ANSI ASME B1.20.1
										"P" – Metric ISO pitch 1,5 (ISO 965/1 and
										ISO 965/3)
HIT	1	-	2	3	4					"B" – PG DIN 40430
				-						"G" – ISO 228/1
									2: size and dime	nsions, according to Tables 3

Mod. 3686/5

subject to the general rules

PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements



[14] EU-type Examination Certificate number: **IMQ 13 ATEX 010X**

	3 Washer material	Blank: None C: Chloroprene washer S: Silicone washer WF: Fiber washer WE: EPDM washer WN: NBR washer
	4 O-Ring material	Blank: None
		OC: Chloroprene O-Ring
		OS: Silicone O-Ring
		OE: EPDM O-Ring
BDPX 1 - 2 - 2 (3)	1:	" " - Black colour
		"B" - Blue colour
		"G" - Green colour
	2:	size and dimensions (example; -13-22)
	3:	Plug size (example PG11)

[15.2] Ratings:

For minimal and maximal diameters of permitted cables and torque values, see instructions manual MIO6.

[15.3] Safety Ratings:

None

[15.4] Ambient temperature and temperature classes:

See table 1 on page 3

[15.5] **Degree of protection (IP code):** IP66/68

[15.6] Warnings:

For gas installations (only for cable glands with M50/PG42/PF 1 $\frac{1}{2}$ "/NPT 1 $\frac{1}{2}$ " threads and following) and dust installations:

Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.

[16] **Report**: AT21-0072183-01_B

[16.1] Routine (factory) tests:

The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0.

[16.2] Conformity with the documentation:

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.

Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.



PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Mod. 3686/5





[14] EU-type Examination Certificate number: IMQ 13 ATEX 010X

[16.3] Installation conditions:

Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.

Installation and use in atmospheric and environmental conditions that are out of above-mentioned intervals request special considerations and additional measures by the side of installer or user. These should be specified to the manufacturer by the user;

It is not a required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.

Installation of equipment has to proceed according to EN 60079-14.

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

[17] Special Condition of use (X):

•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 ½"/NPT 1 ½" 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.

[18] Essential Health and safety Requirements:

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].

This Certificate does not cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VIII of the Directive

ESHR 1.4 Not verified.

ESHR 1.5 Not verified.

ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:

N/A



PRD N° 005 B





[14] EU-type Examination Certificate number: IMQ 13 ATEX 010X

[19] Descriptive documents:

DL-AT21-0072183-01_B dated 2021-11-24.

[20] Certification Validity Conditions:

The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.

The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.

One copy of the mentioned documentation is kept in IMQ file.

[21] Variations

2015, February:

- Standard updating
- 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 cap, polyamide made, as accessory (BP.-.), suitable to guarantee IP degree when installed according to manufacturer's instructions.
- New cable glands series HIB.-.; HIB.-.(DS); MHIB.-.; MHIB.-.(DS)
- New plugs series HIT.-.

August 2015:

- Standard update
- Introductions of alternative of blue cap for the following series: B.-.; B..DC; HIB..-.; HIB..-.(DS). Change of related key code. The blue cap versions of cable glands are used for Ex i circuits.
- Addition of models BN.-X8, BN.-X9, BN.-X10.
- New models HIB.-. (axb) with sealing rings specific for non circular (flat) cables
- New models EHIB..-.; EHIB..-.(DS) with alternative cap versions

February, 2016 :

- 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 cap from BP.-. to BDPX-.-.

<u>April, 2017 :</u>

Pag. 10 of 11

- Standard update
- New colour for BDPX-.-. (Green colour cap tested for UV resistance)
- Changes in length for some models (see new tables in technical documents and tests).



PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements



[14] EU-type Examination Certificate number: IMQ 13 ATEX 010X

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

<u>May, 2017 :</u>

- Change of address

July, 2017 :

- Editorial changes in Marking Specification

March, 2021:

- Standard update
- Temperature range for models BM-X2S, BM-SX5S, BM-SX7S has been changed from -40°C \div +80°C to 40°C \div +85°C.
- Introduction of small equipment marking for model EHIB.-X M12-M16 cable gland sizes.

September, 2021

- Document list update

December, 2021

- Standard update



PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements