

- [1] **EU - TYPE EXAMINATION CERTIFICATE**
- [2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**
- [3] EU – Type Examination Certificate Number ACE24ATEX008X Rev00
- [4] Product Explosion-proof cable glands
HX-BDM Series
- [5] Manufacturer Shenyang Huaxing Explosion-Proof
Equipment Co., Ltd.
- [6] Address No.6, Hongsha Street, Yuhong District
Shenyang City, Liaoning Province, P.R.China
- [7] This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation nº: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and 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 products intended for use in potentially explosive atmospheres given in Annex II to the Directive
The examination and test results are recorded in the confidential Report nº.
EX_EXD002_24_24-1029, EX_EXE003_24_24-1029, EX_EXT003_24_24-1029
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0 2018: Explosive atmospheres — Part 0: Equipment — General requirements
EN 60079-1 2014: Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures ‘d’
EN 60079-7: 2015/A1: 2018: Explosive atmospheres — Part 7: Equipment protection by increased safety ‘e’
EN 60079-31 2014: Explosive atmospheres — Part 31: Equipmentdust ignition protection by enclosure ‘t’
- [10] If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of 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:

II 2G Ex db IIC Gb

II 2G Ex eb IIC Gb

II 2D Ex tb IIIC Db



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Date: 11/07/2024



**Advanced Consulting and Engineering
Iberia SL**

Notified Body No NB3024

Matteo Marconi, CEO

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[13] **SCHEDULE**

[14] EC-Type Examination Certificate No: ACE24ATEX008X Rev00

[15] Description of equipment

The HX-BDM series Explosion-proof cable glands are intended for use in zone 1, zone 2, zone 21 and zone 22.

Model: HX-BDM-1, HX-BDM-3, HX-BDM-4, HX-BDM-5, HX-BDM-6, HX-BDM-10, HX-BDM-12, HX-BDM-13, HX-BDM-18, HX-BDM-21, HX-BDM-22.

HX-BDM-1, HX-BDM-12 series Explosion-proof cable glands are protected by increased safety "eb" and protection by enclosure "tb", other type of cable glands are protected by flameproof enclosure "db", increased safety "eb" and protection by enclosure "tb".

The cable glands are made of brass, stainless or carbon steel and include M-, NPT- and G- threads. They can be used with armoured or unarmoured cable.

1. Model designation:

HX-BDM-□-□-□-□
1 2 3 4 5 6

Position 1: Company code

Position 2: Product code

Position 3: Design code: 1, 10, 12: one single seal, unarmored, no filling compound

3, 5, 21: one single seal, armored, filling compound

4, 6, 22: two seals, armored

13: two seals, unarmored, no filling compound

18: one single seal, filling compound

Position 4: Cable diameter

Position 5: Thread form: Metric, NPT, G

Position 6: Material: H55 or H62 brass, H55 or H62 brass nickel plated, stainless steel 304, 316, 316L, carbon steel Q235

2. Available thread type and size:

Gland size	Entry thread size		
	Metric	NPT	G
16	M16 X 1.5	NPT3/8	G3/8
20	M20 X 1.5	NPT1/2	G1/2
25	M25 X 1.5	NPT3/4	G3/4
32	M32 X 1.5	NPT 1	G 1
40	M40 X 1.5	NPT1 1/4	G1-1/4
50	M50 X 1.5	NPT1 1/2	G1-1/2
63	M63 X 1.5	NPT 2	G 2
75	M75 X 1.5	NPT2 1/2	G2-1/2
90	M90 X 1.5	NPT 3	G 3

3. Ambient temperature: -50°C to +80°C;

4. Ingress Protection class: IP66, IP68 (1m,1h). (IP66 according to IEC 60079 series, IP68 according to IEC 60529)

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[13] **SCHEDULE**

[14] EC-Type Examination Certificate No: ACE24ATEX008X Rev00

[16] Test documents are listed in the test report nº
EX_EXD002_24_24-1029, EX_EXE003_24_24-1029, EX_EXT003_24_24-1029

[17] Special conditions for safe use

1. The ambient temperature: -50°C to +80°C (This has to be seen as the maximum service temperature at the point of entry of the cable gland (Ts, Clause 5.2 IEC 60079-0)).
2. The cable gland for unarmoured cable shall only be used for fixed installations. The installer shall ensure that the cable is effectively clamped to prevent pulling and twisting after installation.
3. Degree of protection IP66 and IP68 (1m, 1h) will be safeguarded only when sealing and cable entry fittings are properly fitted. The manufacturer's instructions must be followed.
4. "G"- threads are not designed for used for flameproof enclosure "db".
5. Clamping tests are carried out with values reduced to 25%. Users shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.
6. The installation instructions for the cable glands with filling compound have to be carefully observed during installation, they are provided in the user manual.

[18] Essential Health and Safety Requirements are
Fulfilled by the harmonized standards

[19] Documents and technical datasheets:

Title	Object	Revision	Date
Instruction Manual of HX- BDM Series Explosion- Proof Cable Glands		1.0	2023-01-20
Material quality report of 304	MTD-01	Rev.A	2023-06-05
Material quality report of 316	MTD-02	Rev.A	2023-06-05
Material quality report of 316L	MTD-08	Rev.A	2023-06-05
Material quality report of PTFE	MTD-07	Rev.A	2023-06-05
Material quality report of H55	MTD-04	Rev.A	2023-06-05
Material quality report of H62	MTD-05	Rev.A	2023-06-05
Material quality report of A/B filling fud	MTD-03	Rev.A	2023-06-05
Material quality report of NBR	MTD-06	Rev.A	2023-06-05

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HX-BDM-1 Explosion-Proof Cable Glands	HX-BDM-1-A	Rev.0-1	2013-11-08
HX-BDM-1 Entry thread body	8HX.100.409.1-9	Rev.0-1	2013-11-08
HX-BDM-3 Explosion-Proof Cable Glands	HX-BDM-3-A	Rev.0-1	2013-11-08
HX-BDM-3 Clamping nut	8HX.300.100.1-9	Rev.0-1	2013-11-08
HX-BDM-3 Entry thread body	8HX.300.400.1-9	0-1	2019-03-08
HX-BDM-3 Gland body 2	8HX.300.300.1-9	0-1	2019-03-08
HX-BDM-3 Middle body	8HX.300.200.1-9	0-1	2019-03-08
HX-BDM-3 Claw	8HX.300.500.1-9	0-1	2019-03-08
HX-BDM-3 Seal	8HX.300.600.1-9	0-1	2019-03-08
HX-BDM-3 Cover ring	8HX.300.700.1-9	0-1	2019-03-08
HX-BDM-3 Tape sleeve	8HX.300.800.1-9	0-1	2019-03-08
HX-BDM-3 Flameproof bushing	8HX.300.900.1-9	0-1	2019-03-08
HX-BDM-3 Washer	8HX.300.110.1-9	0-1	2019-03-08
HX-BDM-3 Lock Nut	8HX.300.120.1-9	0-1	2019-03-08
HX-BDM-4 Explosion-Proof Cable Glands	HX-BDM-4-A	0-1	2019-03-08
HX-BDM-4 Seal-ring	8HX.400.130.1-9	0-1	2019-03-08
HX-BDM-5 Explosion-Proof Cable Glands	HX-BDM-5-A	0-1	2019-03-08
HX-BDM-5 Entry Thread body	8HX.500.401.1-9	0-1	2019-03-08
HX-BDM-5 Flameproof bushing	8HX.500.901.1-9	0-1	2019-03-08
HX-BDM-5 Tape sleeve	8HX.500.801.1-9	0-1	2019-03-08
HX-BDM-5 Cover ring	8HX.500.701.1-9	0-1	2019-03-08
HX-BDM-5 Middle body	8HX.500.700.1-9	0-1	2019-03-08
HX-BDM-5 Seal-ring	8HX.500.131.1-9	0-1	2019-03-08
HX-BDM-5 Clamping nut	8HX.500.101.1-9	0-1	2019-03-08

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HX-BDM-6 Explosion-Proof Cable Glands	HX-BDM-6-A	0-1	2019-03-08
HX-BDM-6 Entry Thread body	8HX.600.402.1-9	0-1	2019-03-08
HX-BDM-6 Seal-ring	8HX.600.132.1-9	0-1	2019-03-08
HX-BDM-6 Tape sleeve	8HX.600.802.1-9	0-1	2019-03-08
HX-BDM-10 Explosion-Proof Cable Glands	HX-BDM-10-A	0-1	2019-03-08
HX-BDM-10 Entry Thread body	8HX.010.403.1-9	0-1	2019-03-08
HX-BDM-10 Seal-ring	8HX.010.133.1-9	0-1	2019-03-08
HX-BDM-10 Clamping nut	8HX.010.102.1-9	0-1	2019-03-08
HX-BDM-12 Explosion-Proof Cable Glands	HX-BDM-12-A	0-1	2019-03-08
HX-BDM-12 Entry Thread body	8HX.012.404.1-9		
HX-BDM-12 Lock Nut	8HX.012.121.1-9	0-1	2019-03-08
HX-BDM-12 Washer	8HX.012.111.1-9	0-1	2019-03-08
HX-BDM-12 Seal-ring	8HX.012.128.1-9	0-1	2019-03-08
HX-BDM-12 Clamping ring	8HX.012.140.1-8	0-1	2019-03-08
HX-BDM-12 Clamp Nut	8HX.012.103.1-8	0-1	2019-03-08
HX-BDM-13 Explosion-Proof Cable Glands	HX-BDM-13-A	0-1	2019-03-08
HX-BDM-13 Middle body	8HX.121.600.1-8	0-1	2019-03-08
HX-BDM-18 Explosion-Proof Cable Glands	HX-BDM-18-A	0-1	2019-03-08
HX-BDM-18 Entry Thread body	8HX.018.405.1-10	0-1	2019-03-08
HX-BDM-18 Flameproof bushing	8HX.018.902.1-9	0-1	2019-03-08
HX-BDM-21 Explosion-Proof Cable Glands	HX-BDM-21-A	0-1	2019-03-08
HX-BDM-21 Entry Thread body	8HX.021.407.1-9	0-1	2019-03-08

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HX-BDM-21 Clamping Nut	8HX.321.803.1-9		
HX-BDM-21 Flameproof bushing	8HX.021.903.1-9	0-1	2019-03-08
HX-BDM-21 Middle body	8HX.021.203.1-9	0-1	2019-03-08
HX-BDM-22 Explosion-Proof Cable Glands	HX-BDM-22-A	0-1	2019-03-08
HX-BDM-22 Entry Thread body	8HX.022.408.1-9	0-1	2019-03-08
HX-BDM-22 Seal-ring	8HX.022.135.1-9	0-1	2019-03-08

The documents above-mentioned are strictly confidential and they are of only use of authorities. A copy of the documents are saved by A.C.&E. Iberia S.L.

[20] Certificate History

Number of certificate	Rev.	Comments	Date
ACE24ATEX008X Rev00	00	First issue	11/07/2024

Date: 11/07/2024



Advanced Consulting and Engineering

Iberia SL

Notified Body No NB3024

Matteo Marconi, CEO

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