

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 25 ATEX 27167 X** **Issue 0**

[4] Product: **Drain Plug / Breather**
Type: MM BE * * * * * Series

[5] Manufacturer: **METALMECH ENGINEERING**

[6] Address: **Plot No. 4246, GIDC, Dared, Phase - III, Road No. E, Jamnagar, Gujarat 361 004, India**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, 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 products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018 and EN 60079-31:2014**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. 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 product shall include the following:


II 2 G **Ex eb IIC Gb**
II 2 D **Ex eb IIB+H2 Gb**
Ex tb IIIC Db



Date of issue:
2025-12-18



Asle Kaastad
For DNV Product Assurance AS
The Certificate has been digitally signed.

[13]

Schedule

[14]

EU-Type Examination Certificate No:

DNV 25 ATEX 27167 X

Issue 0

[15]

Description of Product

The MM BE * * * * * Series Drain Plug / Breather for breathing and draining function are qualified for Ex 'e' and Ex 't' protection concepts.

The sintered element made of either stainless steel or bronze is press fitted in to the main body. The main body and castellated locking nut are made from either: natural brass, naval grade brass, lead free brass or stainless steel SS304 / SS 316L grade material.

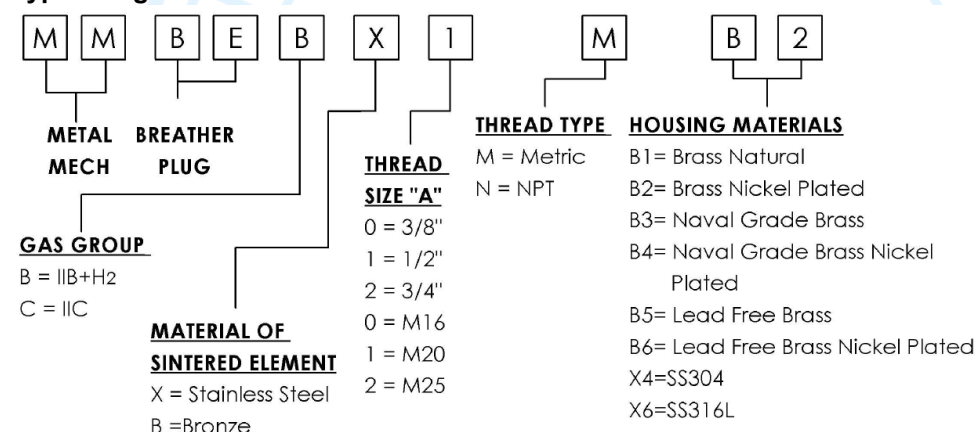
The drain plug / breather has the following basic thread size options: M16X1.5, M20X1.5, M25X1.5, 3/8" NPT, 1/2" NPT and 3/4" NPT.

It can be used with non-threaded entries. Drain plugs / breathers are fitted with PTFE washer and a castellated locking nut to ensure efficient sealing to an associated enclosure and meets the requirements of IP66 to the IEC 60529 standard.

It can be used with bronze sintered element gas group IIB+H₂ and with stainless steel sintered element for gas group IIC.

At the point of mounting, drain plug / breathers are suitable for a temperature range of -60°C to +160°C.

Type designation



Electrical Data

Not Applicable

Degrees of protection (IP Code)

IP 66

Ambient temperature:

-60°C ≤ Ta ≤ +160°C

Routine tests

Not Applicable

[16]

Report No.: 2025-8007

Project No.: PRJN-814834

[17] Specific Condition(s) of Use

1. The drain plugs / breathers are to be mounted in the bottom face of the enclosure to ensure it is able to breathe and drain effectively when IP66 ingress protection is required.
2. The drain plugs / breathers shall be tightened to a torque value specified in the instruction manual
3. The drain plug / breathers are suitable for use when the surface temperature of the equipment on which it is installed is within a temperature range of -60°C to +160°C.
4. Drain Plug can only be used with a plain hole and the hole in the enclosure must not be greater than 0.5mm above the major diameter of the male thread of the drain plugs / breathers and drain plugs / breathers must be secured with castle nut.
5. Dust layers shall be prevented from building up on the outside surface of the drain plugs / breathers, and the drain plugs / breathers shall be routinely cleaned.
6. User shall refer to the type identification in certificate / instructional manual for the details of thread form and size.

[18] Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

[19] Drawings and documents

Number	Title	Rev.	Date
MM-BE-PLG-00	Drain Plug/ Breather	00	30/04/2025

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2025-12-18	2025-8007

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

END OF CERTIFICATE