



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx DNV 25.0140X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-12-16

Applicant: **METALMECH ENGINEERING**
Plot No. 4246, GIDC, Dared,
Phase - III, Road No. E,
Jamnagar, Gujarat 361 004
India

Equipment: **Drain Plug / Breather**

Optional accessory:

Type of Protection: **Ex e, Ex t**

Marking: **A) MM BE C X * * * Series**
Ex eb IIC Gb
Ex tb IIIC Db (-60°C ≤ Ta ≤ +160°C)
B) MM BE B B * * * Series
Ex eb IIB+H₂ Gb
Ex tb IIIC Db (-60°C ≤ Ta ≤ +160°C)

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DNV Product Assurance AS
Veritasveien 1
1363 Høvik
Norway





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Manufacturer: **METALMECH ENGINEERING**
Plot No. 4246, GIDC, Dared,
Phase - III, Road No. E,
Jamnagar, Gujarat 361 004
India

Manufacturing
locations: **METALMECH ENGINEERING**
Plot No. 4246, GIDC, Dared,
Phase - III, Road No. E,
Jamnagar, Gujarat 361 004
India

METALMECH ENGINEERING
Plot No. 3679-3680-3681, Road No.6,
GIDC, Phase-III, Dared, Jamnagar,
Gujarat 361004
India

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

NO/DNV/ExTR25.0124/00

Quality Assessment Report:

NO/PRE/QAR20.0014/05



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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.

Annex:

[Annex to certificate IECEx DNV 25.0140X Issue 0_1.pdf](#)

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Type Identification of MM BE ***** Series Drain Plug / Breather:

