

UK-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

- UK-Type Examination Certificate Number: **BAS21UKEX0065X**
- Product: **489 Flameproof Breather Drain**
- Manufacturer: **Hawke International**
- Address: **A Division of Hubbell Limited, A Member of the Hubbell Group of Companies,
Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.
- The examination and test results are recorded in confidential Report No. **21(C)0033**
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012: +A11: 2013 EN 60079-1: 2014 EN 60079-31: 2014
except in respect of those requirements listed at item 18 of the Schedule.
- If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of the product shall include the following:

⊕ II 2G Ex db IIC T6 Gb

⊕ I M2 Ex db I Mb

⊕ II 2D Ex tb IIIC T85°C Db

See schedule when phosphor bronze sinter fitted

SGS Baseefa Customer Reference No. **0500**

Project File No. **21/0033**

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R S Sinclair

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number BAS21UKEX0065X**

15 **Description of Product**

The Type 489 Breather Drain is designed to be fitted into the bottom face a flameproof enclosure to allow the enclosure to breathe and drain.

There are 2 sizes: M20 x 1.5mm pitch and M25 x 1.5mm pitch or non metric equivalents as defined in the certification documentation.

The breather drain comprises a brass, steel or stainless steel body with a hexagonal head and a threaded portion 15mm long minimum which forms a threaded flameproof joint with enclosure. In the bore of the body there is a press fit bronze sinter. The hexagonal head of the breather drain has drain holes passing behind the sinter. For these parallel thread versions a nitrile rubber or silicone rubber o-ring set in a groove in the shoulder of the thread ensures efficient sealing onto an associated enclosure.

The breather drain, when fitted in the bottom face of the equipment, is capable of meeting the requirements of IP66

Service Temperature: -60°C to +60°C

For units fitted with phosphor bronze sinter, the marking is as follows:

⊕ II 2G Ex db IIB + H2 T6 Gb

Variation 0.1

The metric male threads may be replaced by 1/2" NPT and 3/4" NPT respectively.

Variation 0.2

The bronze sinter may be replaced by two 'stainless steel' sinter elements fitted back to back, suitable for IIC and IIIC applications.

16 **Report Number**

21(C)0033

17 **Specific Conditions of Use**

1. The breather drain is 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 maximum free volume of the enclosure into which the breather may be fitted is 2.5litres unless tested in accordance with Clause 10 of EN 60079-1 in the larger enclosure.
3. Only one breather drain shall be fitted into any single flameproof enclosure.
4. The breather drain thread is to be secured in the enclosure with Loctite 638 sealant or a direct equivalent.

18 **Essential Health and Safety Requirements**

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

Clause	Subject
1.2.7	LVD type requirements
1.4.1	External effects
1.4.2	Aggressive substances

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19 Drawings and Documents

Number	Sheet	Issue	Date	Description
489	1 to 2	F	13/05/21	489 flameproof breather Drain
Baseefa11ATEX0154X IECEX BAS 11.0076X				