

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: **Baseefa11ATEX0154X – Issue 5**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **489 Flameproof Breather Drain**

5 Manufacturer: **Hawke International**

6 Address: **A Division of Hubbell Limited, A Member of the Hubbell Group of Companies,
Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA, UK**

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa11ATEX0154X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, 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.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0: 2018 EN 60079-1: 2014 EN 60079-31: 2014

except in respect of those requirements listed at item 18 of 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 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 product shall include the following: **See schedule when phosphor bronze sinter fitted**

⊕ II 2G Ex db IIC T6 Gb ⊕ I M2 Ex db I Mb ⊕ II 2D Ex tb IIIC T85°C Db Also see schedule

SGS Fimko Oy Customer Reference No. **0500**

Project File No. **22/0214**

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Mikko Välimäki
Authorised Signatory for SGS Fimko Oy

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Schedule

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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

GB/BAS/ExTR22.0112/00

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 |

| Clause | Subject |
|--------|-----------------------|
| 1.4.2 | Aggressive substances |

19 Drawings and Documents

Updated drawings submitted for this issue of certificate:


| Number | Sheet | Issue | Date | Description |
|--------|--------|-------|----------|-------------------------------|
| 489 | 1 to 2 | F | 13/05/21 | 489 flameproof breather drain |

Current drawings which remain unaffected by this issue:

| Number | Sheet | Issue | Date | Description |
|--------|-------|-------|------|-------------|
| NONE | | | | |

Drawings are common to Baseefa11ATEX0154X, BAS21UKEX0065X and IECEx BAS 11.0076X, and held on the latter.

20 Certificate History

| Certificate No. | Date | Comments |
|----------------------|-------------------|--|
| Baseefa11ATEX0154X | 21 September 2011 | The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2009 and EN 60079-1: 2007. The marking was as follows:  I M2 II 2G Exd I Mb Ex d IIB + H2 Gb T6 Tamb (-60°C to +60°C) This is documented in Report No. GB/BAS/ExTR11.0169/00. |
| Baseefa11ATEX0154X/1 | 12 April 2012 | Clarification of sinter details to aid manufacturer. This is documented in Report No. GB/BAS/ExTR12.0069/00. |
| Baseefa11ATEX0154X/2 | 4 March 2013 | Variation 2.1: The introduction of the option of two 'stainless steel' sinters elements, fitted back-to-back, suitable for both IIC and IIIC applications. Variation 2.2: The equipment covered by this certificate has been reviewed against the additional design and test requirements of EN 60079-0: 2012, EN 60079-1: 2007 and EN 60079-31: 2009 and compliance is confirmed. The marking was amended to account for dust and units fitted with two stainless steel sinters back-to-back, and units fitted with a phosphor bronze sinter. This is documented in Report No. GB/BAS/ExTR13.0032/00. |
| Baseefa11ATEX0154X/3 | 5 January 2017 | To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2012+A11:2013, EN 60079-1:2014 and EN 60079-31:2014 in respect of differences from the standards to which this certificate was issued; none of these differences affect this equipment, other than the code marking requirements which have been addressed. This is documented in Report No. GB/BAS/ExTR16.0322/00. |
| Baseefa11ATEX0154X/4 | 31 August 2017 | Minor drawing modifications. This is documented in Report No. GB/BAS/ExTR17.0252/00. |

| Certificate No. | Date | Comments |
|--|---------------|---|
| Baseefa11ATEX0154X Issue 5 | 8 August 2022 | <p>Variation 5.1: This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN IEC 60079-0: 2018.</p> <p>Variation 5.2: Marking modification to include associated UKEX information.</p> <p>The Ex marking code remains unchanged.</p> <p>This is documented in GB/BAS/ExTR22.0112/00.</p> |
| For drawings applicable to each issue, see original of that issue. | | |