

1 **UK-TYPE EXAMINATION CERTIFICATE**

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

3 UK-Type Examination Certificate Number: **BAS21UKEX0043X**

4 Product: **Type 389 metallic Breather Drain range and Type 385 plastic 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**

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

8 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**

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 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 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.

12 The marking of the product shall include the following:

⊕ II 2G Ex eb IIC Gb

**See schedule for Mining marking**

⊕ II 2D Ex tb IIIC Db

SGS Baseefa Customer Reference No. **0500**

Project File No. **21/0033**

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R S SINCLAIR  
TECHNICAL MANAGER  
On behalf of SGS Baseefa Limited

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## Schedule

14

**Certificate Number BAS21UKEX0043X**

### 15 Description of Product

The equipment covered by this Certificate are as follows:

Type 389 metallic Breather Drain:

Sizes: M20 and M25

Type 385 plastic Breather Drain:

Sizes: M20 and M25

The Type 389 and Type 385 Breather Drains comprise of a body with entry thread that incorporate a series of drain holes, a metallic sinter and an o-ring. It is fitted in a plain or threaded entry hole in the bottom face of a vertically mounted Ex eb or Ex tb enclosure to allow the enclosure to breath and drain via the interconnecting drain holes and the sinter.

The 389 and 385 Breather Drains, complete with o-ring will maintain an IP66 rating.

#### **Type 389:**

The 389/M20 comprises a brass or stainless steel body 13.6mm long with 30mm Across Flats hexagonal head, with male M20 x 1.5 pitch x 10mm long minimum thread.

The 389/M25 comprises a brass or stainless steel body 13.6mm long with 36mm Across Flats hexagonal head, with male M25 x 1.5 pitch x 10mm long minimum thread.

In the bore of the entry thread/body there is a press fit bronze or stainless steel sinter to restrict/limit ingress. The body has several drain holes passing behind the sinter that intersects with the base of the bore creating a drain path. The entry thread has a series of  $\phi 3$ mm through holes around the circumference that are located in a helical form to ensure drainage can occur long the thread length. The nitrile or silicone rubber o-ring located in a groove at the shoulder of the entry thread and hexagon body ensures efficient sealing to an associated enclosure.

Type 389 metallic Breather Drain range is marked as follows:

⊕ II 2G Ex eb IIC Gb

⊕ II 2D Ex tb IIIC Db

⊕ I M2 Ex eb I Mb

Service Temperature:

-60°C to +80°C with nitrile o-ring

-60°C to +160°C with silicone o-ring

#### **Type 385:**

The 385/M20 comprises a plastic body  $\phi 30$ mm x 20mm long with a male M20 x 1.5 pitch x 15mm long thread.

The 385/M25 comprises a plastic body  $\phi 32$ mm x 20mm long with a male M25 x 1.5 pitch x 15mm long thread.

In the bore of the entry thread/body there is a press fit stainless steel sinter to restrict/limit ingress. The body has a  $\phi 3$ mm through-hole running across the diameter of the body that intercepts with the base of the bore, creating a drain path. The entry thread has a series of  $\phi 3$ mm through holes around the circumference that are located in a helical form to ensure drainage can occur long the thread length. The body has a recessed 10mm Across Flats hexagonal blind hole for securing the breather drain into an associated enclosure. The nitrile or silicone rubber o-ring located in a groove at the shoulder of the entry thread and hexagon body ensures efficient sealing to an associated enclosure

Type 385 plastic Breather Drain is marked as follows:

⊕ II 2G Ex eb IIC Gb

⊕ II 2D Ex tb IIIC Db

Service Temperature: -60°C to +80°C

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**17 Specific Conditions of Use**

1. The breather drain shall be mounted in the bottom face of a vertically mounted enclosure to ensure it is able to breathe and drain effectively.
2. Plain holes shall be no larger than 0.7mm above the major diameter of the breathing device thread and the device shall be secured with a locknut and optional locking washer.
3. When the bespoke castellated locknut is used the castellations shall be located against the enclosure wall to ensure drainage can occur effectively.
4. The maximum operation temperature range of the 389 metallic breather drain when fitted with a nitrile o-ring is -60°C to +80°C.
5. The maximum operating temperature range of the 389 metallic breather drain when fitted with a silicone o-ring is -60°C to +160°C.
6. The maximum operating temperature range of the 385 plastic breather drain when fitted with a nitrile or silicone o-ring is -60°C to +80°C.
7. 385 plastic Breather Drain ~ WARNING: Potential electrostatic hazard, clean only with a damp cloth.

**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

**19 Drawings and Documents**

Number	Sheet	Issue	Date	Description
389	1 to 2	G	12/05/21	Exe Breather Drain (metallic)
385	1 of 1	E	08/06/21	Exe Breather Drain (plastic)

Baseefa11ATEX0153X  
IECEX BAS 11.0075X