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Schedule

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Certificate Number Baseefa11ATEX0154X

15 Description of Equipment or Protective System

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

Variation 0.1

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

16 Report Number

Baseefa Certification Report GB/BAS/ExTR11.0169/00

17 Special Conditions for Safe 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 IEC 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

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Issue	Date	Description
489	A	07/02/11	489 Exd Group I and Group II Breather Drain



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 94/9/EC

3 Supplementary EC - Type Examination Certificate Number: **Baseefa11ATEX0154X/1**

4 Equipment or Protective System: **489 Flameproof Breather Drain**

5 Manufacturer: **Hawke International (A Division of Hubbell Limited)**

6 Address: **Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa11ATEX0154X** to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0500**

Project File No. **12/0323**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

A handwritten signature in black ink, appearing to read "R S Sinclair".

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Certificate Number Baseefa11ATEX0154X/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

Clarification of sinter details to aid manufacturer

16 Report Number

Baseefa Certification Report GB/BAS/ExTR 12.0096/00

17 Specific Conditions of Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Issue	Date	Description
489	A	07/02/11	489 Exd Group I and Group II Breather Drain



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa11ATEX0154X/2**

4 Equipment or Protective System: **489 Flameproof Breather Drain**

5 Manufacturer: **Hawke International (A Division of Hubbell Limited)**

6 Address: **Oxford Street West, Aston-under-Lyne, Lancaster, OL7 0NA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa11ATEX0154X** to apply to equipment or protective systems 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 Item 9 of the original Certificate is replaced by "Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012

EN 60079-1: 2007

EN 60079-31: 2009

except in respect of those requirements listed at item 18 of the Schedule."

9 The marking of the equipment has changed from the original Certificate and shall include the following:

See schedule

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0500**

Project File No. **12/0902**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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Registered in England No. 4305578. Registered address as above.


PPR S SINCLAIR 
DIRECTOR
On behalf of
Baseefa



13 **Schedule**

14 **Certificate Number Baseefa11ATEX0154X/2**

15 **Description of the variation to the Equipment or Protective System**

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 unit is to be marked with the following amended marking:-

For units fitted with two stainless steel sinters back-to-back:-

⊕ I M2 Ex d I Mb

or

⊕ II 2GD Ex d IIC T6 Gb T_{amb} (-60°C to +60°C)
Ex tb IIIC Db T80°C

For units fitted with the phosphor bronze sinter:-

⊕ I M2 Ex d I Mb

or

⊕ II 2GD Ex d IIB + H₂ T6 Gb T_{amb} (-60°C to +60°C)

16 **Report Number**

Baseefa Certification Report GB/BAS/EXTR13.0032/00

17 **Specific Conditions of Use**

1. The breather is only to be fitted to enclosures with a free volume less than 2.5 litres.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
489	1	C	4/1/13	489 Ex d Group I and Group II Breather Drain (Bronze Sinter)
489	2	C	4/3/13	489 Ex d Group I and Group II Breather Drain (Stainless Steel Sinter)

The above drawings are common to, and are held on, IECEx BAS 11.0076X.

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type **Baseefa11ATEX0154X/3**
Examination Certificate Number:

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 (A Division of Hubbell Limited)**

6 Address: **Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa11ATEX0154X** to apply to products 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 Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, 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.

9 Item 9 of the original Certificate is replaced by “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.”

12 The marking of the equipment has changed from the original Certificate and shall include the following:

⊕ I M2 Ex db I Mb

⊕ II 2 GD Ex db IIC T6 Gb T_{amb} (-60°C to +60°C)
Ex tb IIIC T85°C Db Service temp (-60°C to +60°C)

⊕ II 2 GD Ex db IIB + H2 T6 Gb T_{amb} (-60°C to +60°C) – for units fitted with the phosphor bronze sinter.

SGS Baseefa Customer Reference No. **0500**

Project File No. **16/0801**

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Re-issued 31st January 2017 to replace original

RS Sinclair
R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0154X/3**

15 **Description of the variation to the Product**

Variation 3.1

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.

16 **Report Number**

SGS Baseefa Report Reference Number: - GB/BAS/ExTR16.0322/00

17 **Specific Conditions of Use**

None additional to those listed previously

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is affected as follows.

Clause	Subject	Compliance
1.2.7	LVD type requirements	Standards require manufacturer's declaration, supplied.
1.2.8	Overloading of equipment (protection relays, etc.)	Covered by installation rules and manufacturer's instructions
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
489	1 & 2	D	23/11/2016	General Assembly – Breather drain

This drawing is common to this certificate and held with IECEx BAS 11.0076X.

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: **Baseefa11ATEX0154X/4**

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,**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa11ATEX0154X** to apply to products 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 Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, 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.

SGS Baseefa Customer Reference No. **0500**

Project File No. **17/0282**

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TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa11ATEX0154X/4

15 Description of the variation to the Product

Variation 4.1

Minor drawing modifications.

16 Report Number

GB/BAS/ExTR17.0252/00

17 Specific Conditions of Use

Non additional to those listed previously.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
Changed drawings:				
489	1 of 2	E	16/08/17	489 Exd Group I and Group II breather drain (bronze sinter)
489	2 of 2	E	16/08/17	489 Exd Group I and Group II breather drain (st.steel sinter)

All drawings are held with IECEx BAS 11.0076X and common to Baseefa11ATEX0154X.