



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx BAS 11.0076X

Issue No: 4

Certificate history:

Issue No. 4 (2017-08-31)

Issue No. 3 (2017-01-05)

Issue No. 2 (2013-03-08)

Issue No. 1 (2012-04-13)

Issue No. 0 (2011-09-26)

Status: **Current**

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Date of Issue: **2017-08-31**

Applicant: **Hawke International**
A Division of Hubbell Limited
A Member of the Hubbell Group of Companies
Oxford Street West, Ashton-under-Lyne
Lancashire, OL7 0NA
United Kingdom

Equipment: **489 Flameproof Breather Drain**

Optional accessory:

Type of Protection: **Flameproof and Dust**

Marking:

Ex db I Mb
Ex db IIC T6 Gb Tamb (-60°C to +60°C)
Ex tb III C T85°C Db Service temp (-60°C to +60°C)

Ex db IIB + H2 T6 Gb Tamb (-60°C to +60°C) – for units fitted with the phosphor bronze sinter

Approved for issue on behalf of the IECEx
Certification Body:

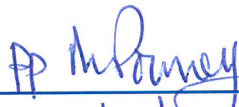
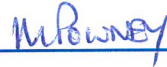
R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)

Date:



31/8/17

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom





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Manufacturer: **Hawke International**
A Division of Hubbell Limited
A Member of the Hubbell Group of Companies
Oxford Street West
Ashton-under-Lyne
Lancashire
OL7 0NA
United Kingdom

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical 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:

GB/BAS/ExTR11.0169/00	GB/BAS/ExTR12.0096/00	GB/BAS/ExTR13.0032/00
GB/BAS/ExTR16.0322/00	GB/BAS/ExTR17.0252/00	

Quality Assessment Report:

[GB/BAS/QAR06.0061/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 4.1

Minor drawing modifications.

ExTR: **GB/BAS/ExTR17.0252/00**

File Reference: **17/0282**