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 11.0075X

Issue No: 5

Status: **Current**

Page 1 of 5

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

Certificate history:
Issue No. 5 (2017-08-31)
Issue No. 4 (2017-01-05)
Issue No. 3 (2015-06-23)
Issue No. 2 (2013-03-08)
Issue No. 1 (2012-04-13)
Issue No. 0 (2011-08-19)

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: **Type 389 metallic Breather Drain range and Type 385 plastic Breather Drain**
Optional accessory:

Type of Protection: **Ex e I, Ex e IIC Increased safety, Ex tb III C protection by enclosure**

Marking:

Type 389 metallic Breather Drain range:

Ex eb I Mb, Ex eb IIC Gb, Ex tb IIIC Db

Service Temperature: -60°C to +80°C with nitrile o-ring, -60°C to +160°C with silicone o-ring

Type 385 plastic Brearther Drain:

Ex eb IIC Gb, Ex tb IIIC Db Service Temperature: -60°C to +80°C

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.

Certificate issued by:

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

IECEx Certificate of Conformity

Certificate No:	IECEx BAS 11.0075X	Issue No: 5
Date of Issue:	**2017-08-31**	Page 2 of 5
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 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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/ExTR11.0168/00 GB/BAS/ExTR12.0095/00 GB/BAS/ExTR13.0032/00
GB/BAS/ExTR15.0145/00 GB/BAS/ExTR16.0322/00 GB/BAS/ExTR17.0175/00

Quality Assessment Report:

GB/BAS/QAR06.0061/06

IECEx Certificate of Conformity

Certificate No: IECEx BAS 11.0075X Issue No: 5

Date of Issue: **2017-08-31** Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems 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 ø3mm 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 385:

The 385/M20 comprises a plastic body ø30mm x20mm long with a male M20 x 1.5 pitch x 15mm long thread.

The 385/M25 comprises a plastic body ø32mm x20mm 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 ø3mm 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 ø3mm 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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.

IECEx Certificate of Conformity

SPECIFIC CONDITIONS OF USE continued

3. When the bespoke castellated locknut is used the castellation's 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.

IECEx Certificate of Conformity

Certificate No: IECEx BAS 11.0075X Issue No: 5

Date of Issue: **2017-08-31** Page 5 of 5

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

Variation 5.1

Minor drawing modifications to the 389 metallic breather drain.

Variation 5.2

Add the 385 plastic Breather Drain, in M20 and M25 sizes.

Variation 5.3

Specific Conditions of Use updated and new conditions added:

Existing condition 1 unchanged.

Existing condition 2 updated to state 389 and now become condition 4.

Existing condition 3 updated to state 389 and now become condition 5.

Existing condition 4 unchanged but has now become condition 2.

New condition 3 added regarding the orientation of the castellated locknut.

New condition 6 added regarding 385 service temperature range.

New condition 6 added regarding 385 electrostatic ignition risk.

ExTR: **GB/BAS/ExTR17.0175/00**	File Reference: **17/0282**