



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 11.0037X issue No.:2

Status: **Current**

Certificate history:
Issue No. 2 (2017-2-17)
Issue No. 1 (2012-1-31)
Issue No. 0 (2011-3-15)

Date of Issue: 2017-02-17 Page 1 of 4

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: 476 Range of Adaptors and Reducers
Optional accessory:

Type of Protection: Flameproof, Increased Safety and Dust

Marking: Ex db I Mb Ex eb I Mb
Ex db IIC Gb
Ex eb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:
(for printed version)



27/2/17

Date:

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





IECEX Certificate of Conformity

Certificate No.: IECEx BAS 11.0037X

Date of Issue: 2017-02-17

Issue No.: 2

Page 2 of 4

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"
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/ExTR11.0063/00](#)

[GB/BAS/ExTR11.0170/00](#)

[GB/BAS/ExTR17.0022/00](#)

Quality Assessment Report:

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



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0037X

Date of Issue: 2017-02-17

Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type 476 range of thread adapters and reducers is manufactured in brass, steel or stainless steel and comprises a hexagonal body with male and female coaxial threads. The combination of the thread forms and sizes are specified in the schedule drawings and the adapters and reducers are marked 476A or 476R (for adapter or reducer) together with the male and female thread form and size, e.g. 476A/M25/1"NPT.

The adaptors and reducers with male parallel threads may be fitted with an O ring mounted in a groove in the face of the hexagon on the male thread side. The service temperatures for the adapters and reducers are:

- No O ring -60°C to +200°C
- Nitrile O ring -60°C to + 80°C
- Silicone O ring -60°C to +160°C

In this form they are marked : Ex d I Mb Ex e I Mb Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db IP66

Variation 0.1

The adaptors and reducers may also be manufactured from aluminium for Group II gases and Group III dust applications only. In this form they are marked: Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db IP66

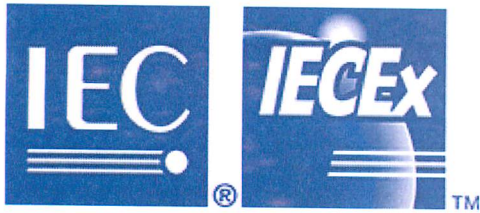
SPECIFIC CONDITIONS OF USE: YES as shown below:

1) When the adaptors and reducers are used for increased safety or dust protection with no O Ring fitted the interface between the enclosure and the male thread and the female thread of the adaptor or reducer are to be suitably sealed (in accordance with IEC 60079-14) to maintain the ingress protection rating of the associated enclosure.

2) When the adaptors or reducers are used for increased safety or dust protection in threaded hole and the O Ring is fitted the entry thread in the enclosure must be at right angles to the enclosure wall, the female thread of the adaptor or reducer are to be suitably sealed, in accordance with IEC 60079-14, to maintain the ingress protection rating of the associated enclosure.

3) When the adaptors or reducers are used for increased safety or dust protection in a plain hole, the hole in the enclosure must be no greater than 0.7 mm greater than the male thread and the adaptor or reducer must be secured with a locknut the female thread of the adaptor or reducer are to be suitably sealed, in accordance with IEC 60079-14, to maintain the ingress protection rating of the associated enclosure.

4) The adaptors or reducers when used in flameproof applications must not be closed with a flameproof stopping plug.



IECEX Certificate of Conformity

Certificate No.: IECEx BAS 11.0037X

Date of Issue: 2017-02-17

Issue No.: 2

Page 4 of 4

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

Variation 2.1

To assess and review the equipment against the requirements of the following standards IEC 60079-0:2011, IEC 60079-1:2004, IEC 60079-7:2015 and IEC 60079-31:2013 (together with the ATEX EN equivalent)

ExTR: GB/BAS/ExTR17.0022/00

File Reference: 16/0795