



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEX BAS 11.0037X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2020-02-06)
Date of Issue:	2022-08-12		Issue 2 (2017-02-17)
			Issue 1 (2012-01-31)
			Issue 0 (2011-03-15)
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 III C Db		

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)

Date:
(for printed version)

12/8/2022

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 www.iecex.com or use of this QR Code.



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**

Page 2 of 4

Date of issue: 2022-08-12

Issue No: 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

Manufacturing locations: **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

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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

[GB/BAS/ExTR11.0063/00](#)
[GB/BAS/ExTR19.0284/00](#)

[GB/BAS/ExTR11.0170/00](#)
[GB/BAS/ExTR22.0112/00](#)

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

Quality Assessment Report:

[GB/BAS/QAR06.0061/09](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 11.0037X**

Page 3 of 4

Date of issue: 2022-08-12

Issue No: 4

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 db I Mb Ex eb I Mb Ex db IIC Gb Ex eb IIC Gb Ex tb III C 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 db IIC Gb Ex eb IIC Gb Ex tb III C 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.
- 5) Anti-seize spray shall be applied to the adaptors and reducers manufactured from aluminium.



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 11.0037X**

Page 4 of 4

Date of issue: 2022-08-12

Issue No: 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 4.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of IEC 60079-0: 2017 and IEC 60079-7: 2015: +Amd 1: 2017 in respect to the differences from IEC 60079-0: 2011 and IEC 60079-7: 2015. None of the differences in the standards affect this equipment. The Ex marking code remains unchanged.

Variation 4.2

Marking modification to include associated UKEX information.

ExTR: **GB/BAS/ExTR22.0112/00**

File Reference: **22/0214**