



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 12.0111X issue No.:2

Status: Current

Date of Issue: 2017-01-05 Page 1 of 4

Certificate history:  
Issue No. 2 (2017-1-5)  
Issue No. 1 (2015-10-14)  
Issue No. 0 (2012-12-20)

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: Insulated Adaptors  
Optional accessory:

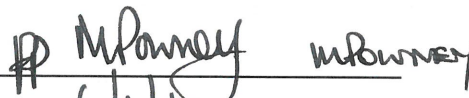
Type of Protection: Flameproof, increased safety and dust protection by enclosure

Marking: Ex db I Mb Ex eb I Mb (-\*°C to +\*°C or +\*°C) IP66 (\*see schedule)  
Ex db IIC Gb Ex eb IIC Gb (-\*°C to +\*°C or +\*°C) IP66 (\*see schedule)  
Ex tb IIIC Db

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

Position: Technical Manager

Signature: (for printed version)

  
6/1/17

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





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Manufacturer: **Hawke International**  
A Division of Hubbell Limited  
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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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> 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/ExTR12.0256/00](#)

[GB/BAS/ExTR15.0268/00](#)

[GB/BAS/ExTR16.0322/00](#)

#### Quality Assessment Report:

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



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

A range of Insulated Adaptors consisting of three separate (two metallic and one polymeric) threaded parts which are screwed together to form an adaptor assembly. The interface between the three parts forms two threaded flame paths and the three parts of the assembly are permanently bonded together. The metallic parts may be produced in steel, stainless steel, brass or aluminium alloy. The polymeric part may be produced in one of two polymeric materials (A or B). The adaptors range in size from M20 to M75 (male and female) with NPT, ET, PG, NPSM – BSPP and BStR equivalent sizes.

Type Designation	Ambient Temperature Range		Equipment Group	
	Polymer A	Polymer B	Group I	Group II
478	-55°C to +90°C	-55°C to +95°C	Yes	Yes
478LT	-60°C to +90°C	-60°C to +95°C	No	Yes

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When the Insulated Adaptors are used for Flameproof, Increased Safety or Dust Protection, the entry of the enclosure and the female threads of the Insulated Adaptor are to be suitably sealed (in accordance with IEC 60079-14) to maintain the Ingress Protection rating of the associated enclosure.
2. When the Insulated Adaptors are used for Increased Safety or Dust Protection in a plain hole, in hole in the enclosure must be no greater than 0.7mm bigger than the male thread and the Insulated Adaptor must be secured with a locknut, the female threads 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. The Insulated Adaptors, when used in flameproof applications, must not be closed with a flameproof stopping plug.
4. The size A, B and C Insulated adaptor is limited to use in Group I application to low impact installations
5. The aluminium variant of type 478 adaptor is to be marked for Group II only.



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

### Variation 2.1

To confirm that the equipment covered by this certificate has been reviewed against the latest standards:- IEC60079-0:2011, IEC60079-1:2014, IEC60079-7:2015 and IEC60079-31:2013.

ExTR: GB/BAS/ExTR16.0322/00

File Reference: 16/0801