



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 FIDI 24.0009X**

Page 1 of 3

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: **2024-07-23**

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 type 478 and 478LT**

Optional accessory:

Type of Protection: **Flameproof enclosure 'd', Increased safety 'e' and Dust protection by enclosure 't'**

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:

Marino Kelava



Position:

Certification Signatory

Signature:
(for printed version)

Date:
(for printed version)

2024-07-23

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:

Fiditas Ltd
Slavka Tomerlina 44
Zagreb-Sesvete HR-10361
Croatia



Fiditas
explosion safety solutions



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Page 2 of 3

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Manufacturer: **Hawke International**
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Oxford Street West
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Manufacturing locations: **Hawke International**
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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 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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 Report:

HR/FIDI/ExTR24.0011/00

Quality Assessment Report:

GB/BAS/QAR06.0061/10

22



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Page 3 of 3

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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 three polymeric materials (A, B or C). 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	Polymer C	Group I	Group II
478	-55°C to +90°C	-55°C to +95°C	-55°C to +95°C	Yes	Yes
478LT	-60°C to +90°C	-60°C to +95°C	-60°C to +95°C	No	Yes

Marking:

HAWKE 478/Thread Sizes/type of protection (Tservice) IP66

Thread size can be: A, B, C, C2, D, E or F

Type of protection can be: Ex db IIC Gb; Ex eb IIC Gb; Ex tb IIIC Db; Ex db I Mb; Ex eb I Mb

Tservice can be: -55°C to +90°C or -55°C to +95°C or -60°C to +90°C or -60°C to +90°C

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 not permitted for Group I, mining application.