



[1] **EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 24 ATEX 0040X**

Issue: **0**

[4] Product: **Insulated Adaptors**

Type: **478 and 478LT**

[5] Manufacturer: **Hawke International**
A Division of Hubbell Limited, A Member of the Hubbell Group of Companies

[6] Address: **Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA, United Kingdom**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 24 CR 052**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015/A1:2018

EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

[12] The marking of the product shall include the following:



II 2G Ex db IIC Gb; II 2G Ex eb IIC Gb; II 2D Ex tb IIIC Db
I M2 Ex db I Mb; I M2 Ex eb I Mb

Our ref.: 24.CRT.218

Date: 23.07.2024



FIDITAS Ltd.

Certification department

Approved:

Marino Kelava, M.E.Eng.



[13]

SCHEDULE

[14]

EU - TYPE EXAMINATION CERTIFICATE No.:

FIDI 24 ATEX 0040X

[15]

Description of product

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 BSPT equivalent sizes.

Type Designation	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

IP protection: IP66

Aluminium is not permitted for Group I, mining.

Marking:

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

Certificate number, IM2/II2GD year of manufacture OL70NA UK

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

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

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

[16]

Confidential Report No.

FIDI 24 CR 052

[16.1]

Routine testing

None

[17]

Specific Conditions of Use

- 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 EN 60079-14) to maintain the Ingress Protection rating of the associated enclosure.



- When the Insulated Adaptors 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 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 EN 60079-14) to maintain the Ingress Protection rating of the associated enclosure.
- The Insulated Adaptors, when used in flameproof applications, must not be closed with a flameproof stopping plug.
- The size A, B and C Insulated adaptor is limited to use in Group I application to low impact installations.
- The aluminium variant of type 478 adaptor is not permitted for Group I, mining application.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Certification drawing – type 478	478	F	18.07.2024
Certification drawing – type 478LT	478LT	E	18.07.2024
Assembly Instructions for Insulated Adaptor	AI 426	L	07.2024.