

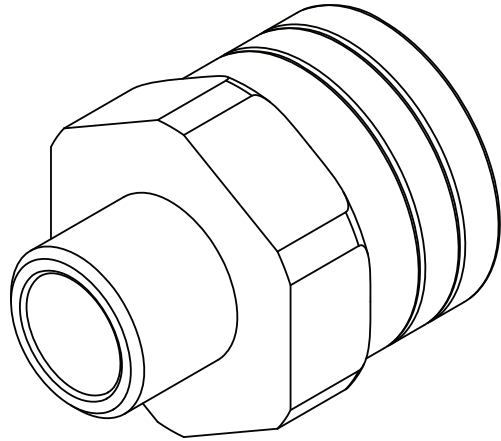
# Assembly Instructions for Insulated Adaptor: 478 (GRP I, II & III) 478LT (GRP II & III)

478 - Operating temperature range -55°C +95°C  
478LT - Operating temperature range -60°C +95°C

### Materials:

Group I Applications: Brass, Nickel Plated Brass, Stainless Steel and Nylon

Group II Applications: Brass, Nickel Plated Brass, Stainless Steel, Aluminium and Nylon



**Fig. 1 - Type 478 / 478LT Insulated Adaptors**

**Note:** Only one Insulated Adaptor shall be used with any enclosure entry.

### STEP 1 (PRIOR TO INSTALLATION)

- Ensure the male thread type and size of the Insulated Adaptor is compatible with the enclosure thread.
- Where ingress protection above IP54 is required in threaded entries, the use of a suitable non-setting thread sealant or sealing washer is recommended.
- Care should be taken to ensure that any electrical continuity is not affected.

### STEP 2:

Fully tighten Insulated Adaptor into the enclosure using a wrench / spanner.

### FOR FLAMEPROOF APPLICATIONS:

- With parallel threads, the minimum number of threads engaged must be 5 with an axial engagement of 8mm.
- With taper threaded Adaptors and Reducers the number of threads engaged may be less than 5, but must be greater than 3.5 effective threads engagement.

### Certification Details

Insulated Adaptor Type: 478 (GRP I, II & III)  
Ex db eb I Mb, Ex db eb IIC Gb, Ex tb IIIC Db  
Baseefa12ATEX0207X (Ex) IM2 / II 2 GD IP66 C C

IECEx BAS12.0111X

BAS21UKEX0060X

IEEx 15.0193X

EARC (Ex) No EA3C RU C-GB.HA91.B.00265/21

c CSA us No: 1731876

Class I Zone 1 AEx db eb IIC Gb, Zone 21 AEx tb IIIC Db

Insulated Adaptor Type: 478LT (GRP II & III)

Ex db eb IIC Gb, Ex tb IIIC Db

Baseefa12ATEX0207X (Ex) II 2 GD IP66 C C

IECEx BAS12.0111X

BAS21UKEX0060X

IEEx 15.0193X

EARC (Ex) No EA3C RU C-GB.HA91.B.00265/21

c CSA us No: 1731876

Class I Zone 1 AEx db eb IIC Gb, Zone 21 AEx tb IIIC Db

### SPECIAL CONDITIONS FOR SAFE USE:

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, the 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 & C 478 Insulated Adaptor is limited in use in Group I Applications to low impact installations.
5. The Aluminium variants of the 478 Insulated Adaptor is to be marked for Group II use only.

### Declaration of Conformity in accordance with European Directive 2014/34/EU and UK Statutory Instrument 2016/1107

**Manufacturer:** Hawke International, Oxford Street West, Ashton-under-Lyne, OL7 0NA, United Kingdom

**Equipment:** 478 (Group I & II) and 478LT (Group II) Insulated Adaptors

**Provisions of the Directive fulfilled by the Equipment:** Group I Category I M2 Ex eb I Mb, Ex db I Mb  
Group II Category 2GD Ex eb IIC Gb, Ex db IIC Gb, Ex tb IIIC Db - IP66

**Harmonized Standards used:** EN 60079-0:2018, EN60079-1:2014, EN60079-7:2015+A1:2018, EN60079-31:2014

**Notified Body for EU-Type Examination:** SGS Fimko 0598 Helsinki Finland

**EU-type Examination Certificate:** Baseefa12ATEX0207X

**Notified Body for production:** 0598

**Approved Body for UK-Type Examination:** SGS Baseefa 1180 Buxton UK

**UK-type Examination Certificate:** BAS21UKEX0060X

**Approved Body for production:** 1180

On behalf of the above named company, I declare that on the date the equipment, accompanied by this declaration, is placed on the market the equipment conforms with all technical and regulatory requirements of the above listed directives.

Andrew Reid  
Technical Manager

Images are for illustration purposes only.

Product supplied may differ slightly from that shown.