1 # UK-TYPE EXAMINATION CERTIFICATE

2 **Component Intended for use on/in a Product or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3	UK-Type Examination Certificate Number:	**BAS21UKEX0066U**
4	Product:	**Ex d Unions Type 481 and 482**
5	Manufacturer:	**Hawke International**
6	Address:	**A Division of Hubbell Limited, A Member of the Hubbell Group of Companies, Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **21(C)0033**

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

EN 60079-0: 2012: +A11: 2013 EN 60079-1: 2014

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

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as the basis for certification of an equipment or protective system.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

Ex II 2G Ex db IIC Gb

SGS Baseefa Customer Reference No. **0500** Project File No. **21/0033**

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UKAS PRODUCT CERTIFICATION
0191

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 # Schedule

14 ## Certificate Number BAS21UKEX0066U

15 Description of Product

The Type 481 and Type 482 threaded unions have thread sizes ranging from M16 to M75 and are intended for the inline connection into a flameproof enclosure or fitting having male or female threads.

The unions are manufactured from brass, steel or stainless steel and comprise three parts, two coaxial threaded parts either male to female (Type 481) or both female (Type 482), and an intermediate collar. The external plain section of the female threaded portion forms a cylindrical joint with the internal diameter of the collar. The second male or female threaded section screws into the rear of the collar and forces the female thread against the inner wall of the collar creating a plane joint which together with the cylindrical joint creates a spigot joint. The second threaded component is secured against removal or vibration by a locking set screw situated in the wall of the collar.

The threads may be NPT, or metric, or other equivalent parallel thread forms as detailed on the drawings.

The difference in thread sizes in any single union is no more that one size e.g. M16 to M20.

Service Temperature Range: -60°C to +80°C

16 Report Number

21(C)0033

17 Schedule of Limitations

1. This component must not be used with a certified piece of equipment unless the certificate for the equipment specifically includes for its use.

2. The overall cross-sectional area of the conductors must not exceed 40% of the cross-sectional area of the bore of the fitting when three or more none sheathed, insulated, single or multi-core conductors pass through the fitting unless tested and specified.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.4.1	External effects
1.4.2	Aggressive substances

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
481	1 of 1	D	12/05/21	Ex d Union male to female
482	1 of 1	D	12/05/21	Ex d Union female to female

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IECEx BAS 11.0077U

Number	Sheet	Issue	Date	Description