



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa11ATEX0155U**

4 Component: **Ex d Unions Type 481 and 482**

5 This certificate is held by: **Hawke International (A Division of Hubbell Limited)**

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

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

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR 11.0163/00**

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

EN 60079-0: 2009

EN 60079-1: 2007

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 a basis for certification of an equipment or protective system.

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

12 The marking of the component shall include the following :

 **II 2 G Ex d IIC Gb (-60°C to +80°C)**

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0500**

Project File No. **11/0129a**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.


R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa11ATEX0155U

15 Description of Component

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 than one size e.g. M16 to M20.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR 11.0163/00

17 Schedule of Limitation

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 non sheathed, insulated, single or multi-core conductors pass through the fitting unless tested and specified

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Issue	Date	Description
481	A	09/01/11	481 Exd Union Male to Female
482	A	09/01/11	482 Exd Union Female to Female



SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

**Component Intended for use on/in an Equipment
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa11ATEX0155U/1**
- 4 Component: **Ex d Union Type 481 and 482**
- 5 Manufacturer: **Hawke International (A division of Hubbell Limited)**
- 6 Address: **Oxford Street West, Ashton Under Lyne, Lancashire, OL7 0NA**
- 7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa11ATEX0155U to apply to components designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0500**

Project File No. **13/0130**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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Registered in England No. 4305578. Registered address as above.


R S SINCLAIR 
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa11ATEX0155U/1

15 Description of the variation to the Component

Variation 1.1

- a) To allow for an increase in wall thickness between the thread root and bore of entry threads of the fitting
- b) Increase in length of the fitting to clarify flamepath lengths in accordance with the standards
- c) Update of the standards IEC 60079-0 from 2007 to 2011

16 Report Number

Baseefa Certification Report Gb/BAS/Ex TR13.0065/00

17 Schedule of Limitations

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Issue	Date	Description
481	B	31/01/2013	Exd Union Male To Female
482	B	31/01/2013	Exd Union Female To Female

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC

3 Supplementary EC - Type Examination Certificate Number: **Baseefa11ATEX0155U/2**

4 Component: **Ex d Union Type 481 and 482**

5 Manufacturer: **Hawke International (A Division of Hubbell Limited)**

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa11ATEX0150U to apply to components designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 Item 9 of the original Certificate is replaced by "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."

9 The marking of the equipment has changed from the original Certificate and shall include the following:

⊕ II 2 G Ex db IIC Gb (-60°C to +80°C)

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0500**

Project File No. **15/0097**

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RS SINCLAIR
R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0155U/2**

15 **Description of the variation to the Component**

Variation 2.1

To allow the update of the Ex d Union Type 481 and 482 as listed on the certificate to comply with the latest edition of the following standards : EN 60079-0:2012+A11:2013, EN 60079-1:2014,

16 **Report Number**

Baseefa Certification Report GB/BAS/ExTR15.0232/00

17 **Schedule of Limitations**

None additional to those listed previously

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
481	1	C	29/02/16	481 Exd Union Male to Female
482	1	C	29/02/16	482 Exd Union Female to Female