

IECEx Certificate of Conformity

	ertification S	LECTROTECHNICAL cheme for Explosive A ails of the IECEx Scheme visit www.ied	Atmospheres
Certificate No.:	IECEx BAS 11.007	7U issue No.:2	Certificate history:
Status:		13306 1102	Issue No. 2 (2016-3-18) Issue No. 1 (2013-3-11)
otatus.	Current		Issue No. 0 (2011-11-4)
Date of Issue:	2016-03-18	Page 1 of 4	
Applicant:	Hawke Internation A Division of Hubbe A Member of the Hu Oxford Street West Ashton-under-Lyne Lancashire OL7 0NA United Kingdom		
Electrical Apparatus: Optional accessory:	Ex d Unions Type 4	481 and 482	
Type of Protection:	Ex d Flameproof p	rotection	
Marking:	Ex db IIC Gb (-60°C to + 80°C)		
Approved for issue on be Certification Body:	ehalf of the IECEx	R S Sinclair	
Position:		Technical Manager	
Signature: (for printed version)		pp Monney	MADWINEY
Date:		22/3/10	
	ransferable and remain	produced in full. is the property of the issuing body. may be verified by visiting the Official	IECEx Website.
Rockh	Baseefa Limited ead Business Park Staden Lane Buxton Derbyshire SK17 9RZ nited Kingdom	SG	S Baseefa

Cortificato No.			
Certificate No.:	IECEX BAS 11.0077U		
Date of Issue:	2016-03-18	Issue No.: 2	
<i>l</i> lanufacturer:	Hawke International A Division of Hubbell Limited A Member of the Hubbell Gro Oxford Street West Ashton-under-Lyne Lancashire OL7 0NA United Kingdom	Page 2 of 4 up of Companies	
dditional Manufacturing	location		
This certificate is issued found to comply with the covered by this certificate	IEC Standard list below and that the man e, was assessed and found to comply with	tative of production, was assessed and tested and nufacturer's quality system, relating to the Ex products h the IECEx Quality system requirements. This Scheme Rules, IECEx 02 and Operational Document	
	and any acceptable variations to it specifi comply with the following standards:	ied in the schedule of this certificate and the identified	
IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements			
Edition: 6.0 I EC 60079-1 : 2014-06 Edition: 7.0	S Explosive atmospheres - Part 1: Equ	uipment protection by flameproof enclosures "d"	
This Certificate does	not indicate compliance with electrical sa expressly included in the Stan	fety and performance requirements other than those dards listed above.	
TEST & ASSESSMENT A sample(s) of the equip		nination and test requirements as recorded in	
<u>Test Report:</u> GB/BAS/ExTR11.0163/0	0 GB/BAS/ExTR13.0065/00	0 GB/BAS/ExTR15.0232/00	
Quality Assessment Rep	ort:		
GB/BAS/QAR06.0061/05	5		



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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.

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.

 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.

CONDITIONS OF CERTIFICATION: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 2.1

To allow the update of the Male to Female and Female to Female Unions Type 481 and 482 as listed on the certificate IECEx BAS 11.0077U to comply with the latest edition of the following standards : IEC 60079-0:2011 Edition 6, IEC 60079-1:2014 Edition 7.

This includes an update to the markings as listed below:

Ex db IIC Gb (-60°C to + 80°C)

ExTR: GB/BAS/ExTR15.0232/00

File Reference: 15/0097