



UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UK TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **CSAE 21UKEX1054U** Issue: **1**

4 Product: **Type 49* Swivel Couplings**

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, UK**

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

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 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 the confidential reports listed in Section 14.2.

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 60079-7:2015/A1:2018 EN 60079-31:2014

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 The sign "U" placed after the certificate number 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. Any limitations are listed in Section 15.

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 this product shall be in accordance with Regulation 41 and include the following:



I M2
II 2GD
Ex db I Mb
Ex eb I Mb
Ex db IIC Gb
Ex eb IIC Gb
Ex tb IIIC Db
IP66

Name: Michelle Halliwell
Title: Director of Operations



SCHEDULE

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13 DESCRIPTION OF PRODUCT

These metallic swivel unions are available as either inline or 90° elbow thread union fittings. They have a male thread on the front entry body and a female thread on the rear sleeve, sealing, in the form of a silicone O-ring, is provided between the two parts. Each union can be fitted with an anti-rotation device, lockstop, this retains the position of the union once it is installed.

Design options

Type 490: Male to Female Inline Swivel Union with Lockstop

Type 491: Male to Female Inline Swivel Union

Type 492: Male to Female Elbow Swivel Union with Lockstop

Type 493: Male to Female Elbow Swivel Union

Thread specifications

Standard thread forms

M16, M20, M25, M32, M40, M50, M63, M75

½"NPT, ¾"NPT, 1"NPT, 1 ¼"NPT, 1 ½"NPT, 2"NPT, 2 ½"NPT, 3"NPT

Alternative thread forms

The front threaded 'entry item' may be provided with alternative thread type and size (as marked on the product) to the standard metric and NPT thread form as detailed below. These are intended for use within existing installations only that incorporate thread types that are no longer permitted by the current edition of EN 60079-1, but comply with the requirements of EN 50018:2000.

- NPSM ANSI/ASME B1.20.1:1983
- BSPT BS 21:1985
- BSPP BS EN ISO 228-1:2003; BS EN ISO 228-2:2003 'full form only'
- PG DIN 40430:1971
- ET BS 31:1940 Table 'A'

Materials

Aluminium, brass, steel or stainless steel (the unions may be plated)

Thread combinations.

The following male and female thread combination for the Type 492 (90° Elbow swivel lockstop) and the Type 493 (90° Elbow swivel) are permitted as indicated by 'X'

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		FEMALE THREAD (metric)							
		M16	M20	M25	M32	M40	M50	M63	M75
MALE THREAD (metric)	M16	X	X						
	M20	X	X	X					
	M25	X	X	X	X				
	M32	X	X	X	X	X			
	M40	X	X	X	X	X	X		
	M50	X	X	X	X	X	X		
	M63	X	X	X	X	X	X	X	
	M75	X	X	X	X	X	X	X	X

		FEMALE THREAD (NPT)							
		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
MALE THREAD (NPT)	1/2"	X	X						
	3/4"	X	X	X					
	1"	X	X	X	X				
	1 1/4"	X	X	X	X	X			
	1 1/2"	X	X	X	X	X	X		
	2"	X	X	X	X	X	X		
	2 1/2"	X	X	X	X	X	X	X	
	3"	X	X	X	X	X	X	X	X

Incorporated amendments:

The product description includes the following applicable amendments. Amendments directly applicable to UKCA certification have been included in this list.

- i. The entry bore of the Type 49* Swivel Couplings was modified.
- ii. Replacement of 'clamping ring' elastomeric component part with a metallic 'clamping olive'.
- iii. Minor modification to the internal leading edge of the bore on the non-threaded end of the rear sleeve of the main body.
- iv. The correction of drawing detail relating to maximum bore dimension of male component part sizes 1/2", 3/4", 1", 1 1/4" 1 1/2" 2" and 2 1/2" NPT.
- v. To permit the use of alternative grades of brass and stainless steel as materials of manufacture.
- vi. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2009, EN 60079 1:2007, EN 60079-7:2007 and EN 60079-31:2009, were replaced by EN 60079-0:2012/A11:2013, EN 60079-1:2014, EN 60079-7:2015 and EN 60079-31:2014, the Schedule of Limitations and the markings were amended to recognise the new standards.
- vii. The product description was also amended to clarify the specification of the alternative types of thread forms that are available.

Variation 1 - This variation introduced the following changes:

- i. To allow an extension to the combinations of male and female thread sizes as covered by the drawings 492 and 493 only.
- ii. Update to the notes section of the drawings 490, 491, 492 and 493.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.



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14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	05 August 2021	R80074416A	The release of the prime certificate.
1	25 March 2024	R80198047A	The introduction of Variation 1.

15 SCHEDULE OF LIMITATIONS

- 15.1 These swivel unions shall not be used where the service temperature is outside the temperature range -60°C to +100°C.
- 15.2 Blanking elements shall not be used with these swivel unions.
- 15.3 The M16 size swivel unions shall only be used for Group I applications where there is a low risk of impact.
- 15.4 These swivel unions shall not to be used for the direct inter-connection of enclosures.
- 15.5 These swivel unions shall not be used with conduit in Group I installations.
- 15.6 Only one swivel union shall be used with any single cable entry on the associated equipment.
- 15.7 When required, the front and rear threads of these unions shall be suitably sealed to maintain the ingress protection rating of the associated equipment to which they are attached e.g. if a union is fitted into (Ex tb) protection by enclosure equipment for use in explosive dust atmospheres and the front thread is not sealed using a washer, then, to maintain the required IP6X rating, the enclosure shall offer a minimum of 5 full threads of contact, in accordance with EN 60079-31.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders.
- 17.2 Aluminium devices shall not be marked with any information indicating that they are suitable for Group I use.





Certificate Annexe

Certificate Number: CSAE 21UKEX1054U
Product: Type 49* Swivel Couplings
Manufacturer: Hawke International (A Division of Hubbell Limited,
A Member of the Hubbell Group of Companies)

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
490	1 of 1	E	26 Jul 21	Inline Swivel Lockstop Coupling
491	1 of 1	E	26 Jul 21	Inline Swivel Coupling
492	1 of 1	E	26 Jul 21	90° Elbow Swivel Lockstop
493	1 of 1	E	26 Jul 21	90° Elbow Swivel
3015	1 of 1	F	11 Sep 17	Material specification
3016	1 of 3	H	11 Sep 17	Thread specification - NPT
3016	2 of 3	G	11 Sep 17	Thread specification - metric
3016	3 of 3	F	11 Sep 17	Thread specification – other thread forms

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
490	1 of 1	F	18 Mar 24	Inline Swivel Lockstop Coupling
491	1 of 1	F	13 Mar 24	Inline Swivel Coupling
492	1 of 1	F	13 Mar 24	90° Elbow Swivel Lockstop
493	1 of 1	F	13 Mar 24	90° Elbow Swivel

