



UNITED KINGDOM CONFORMITY ASSESSMENT

UK TYPE EXAMINATION CERTIFICATE

Equipment Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

Certificate Number: **CSAE 22UKEX1185X** Issue: **0**

Product: **92 and 93 Series Nipple Union Assembly**

Manufacturer: **International Metal Engineering Pte Ltd**

Address: **Blk 13 Toa Payoh Lorong 8
#06-05 Braddell Tech Park
Singapore 319261**

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

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.

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

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014

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.

If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use identified in the schedule to this certificate.

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.

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



II 2GD

Ex db IIC T6 Gb

Ex tb IIIC T85°C Db

Ta = -40°C to +70°C

IP68*

* Dust protection and IP68 only applicable when probe end meets the special condition of safe use.

Name: Michelle Halliwell
Title: Director of Operations



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Certificate No. **CSAE 22UKEX1185X**
CSA Group Testing UK Ltd., Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK

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SCHEDULE

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13 DESCRIPTION OF PRODUCT

The 92 and 93 Series nipple union assembly is a stainless steel assembly comprising a nipple union and probe. The probe is retained within the nipple by a spring. The assembly has a 1/2" NPT thread at the probe end and a 1/2" NPT or M20 thread at the leads end. The 92 and 93 series can be fitted to any ATEX approved enclosure offering at least the same level of protection as detailed in section 12. The probe end of the nipple union is threaded to accommodate an optional protection of the probe such as a thermowell.

The assemblies have the following part numbers:

Part number	Sensor description	
92	Flameproof union with sensor	
93	Flameproof union with sensor	
	Code	SS316 Sheath, plain Capsule
	TJ	Type J thermocouple, class 1, DIN/IEC 584-2-1992
	TK	Type K thermocouple, class 1, DIN/IEC 584-2-1992
	TT	Type T thermocouple, class 1, DIN/IEC 584-2-1992
	TE	Type E thermocouple, class 1, DIN/IEC 584-2-1992
	TR	Type R thermocouple, class 1, DIN/IEC 584-2-1992
	TS	Type S thermocouple, class 1, DIN/IEC 584-2-1992
	PA	Pt-100 RTD Class A, DIN/IEC 751-1985
	PB	Pt-100 RTD Class B, DIN/IEC 751-1985
	PF	Pt-100 RTD Class A, DIN/IEC 751-1985, 4 wire
	XX	Alternative Temperature Sensor
	Code	No of elements
	S	Single element
	D	Dual element
	Code	Nipple Union Assembly length ("N" Length)
	04	4 Inch
	05	5 Inch
	06	6 Inch
	07	7 Inch
	Code	Thread For Flame Lock
	001	1/2" NPT
	002	M20 x 1.5
	Code	Sensor diameter
	EG	6.4 mm
	MT	6.0 mm
	Code	Sensor "A" length
	L000	Specify "A" length in mm

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexes.



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14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	21 September 2022	R80126775A	The release of the prime certificate.

15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

- 15.1 To meet the requirements of EN 60079-31 and EN 60529 for degree of protection IP68, the user shall ensure the probe end of the nipple union shall be threaded into a protection tube such as a thermowell to maintain the degree of protection IP68.
- 15.2 When the temperature of the process medium affects the temperature of the external part of the equipment the latter shall be verified that it does not exceed the rated ambient temperature of the equipment.

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



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