



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 10ATEX1349X** Issue: **0**

4 Equipment: **92 and 93 series Nipple Union Assembly**

5 Applicant: **International Metal Engineering Pte Ltd**

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

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2009

EN 60079-1:2007

EN 60079-31:2009

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2GD

Ex d IIC T6 Gb

Ex tb IIIC T85°C Db IP68*

(Ta = -40°C to +70°C)

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

Project Number 20362

D R Stubbings
Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

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13 DESCRIPTION OF EQUIPMENT

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 Annexe.

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Sira Certification Service

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14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	14 January 2011	R20362A/00	The release of prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 To meet the requirements of IEC 60079-31 and IEC 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.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Certificate Annexe

Certificate Number: Sira 10ATEX1349X

Equipment: 92 and 93 series union nipple assembly

Applicant: International Metal Engineering Pte Ltd



Issue 0

Drawing	Sheets	Rev	Date (Sira stamp)	Title
92xx-x-xx-x-Lxxx (See table 1.0)	1 of 1	0	03 Dec 10	Flameproof nipple union assembly
93xx-x-xx-x-Lxxx (See table 1.0)	1 of 1	0	03 Dec 10	Flameproof nipple union assembly
5050-00x-xx-xx (See table 2.0)	1 of 1	0	03 Dec 10	Flameproof nipple for 92 series
54x5-00x (See table 2.0)	1 of 1	0	21 Jan 11	54x5 series assembly
5410-00x-xx (See table 2.0)	1 of 1	0	03 Dec 10	Bottom union
90x-xx-x-Lxxx (See table 1.0)	1 of 1	0	21 Jan 11	90 series plain capsule sensor
5300-001	1 of 1	0	03 Dec 10	Male union connector
5400-00x-xx (See table 2.0)	1 of 1	0	03 Dec 10	Flame lock union
8030-A	1 of 1	1	03 Dec 10	Spring for union
5300-002	1 of 1	0	03 Dec 10	O-ring for union
8080-007	1 of 1	1	03 Dec 10	Stainless steel rivets
1080-205	1 of 1	0	03 Dec 10	Rectangular label for 93 series flameproof nipple assembly
1080-204	1 of 1	0	03 Dec 10	Rectangular label for 92 series flameproof nipple assembly
8080-012	1 of 1	1	03 Dec 10	Compound

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