



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 07ATEX1240X** Issue: **2**

4 Equipment: **Model 83, 86, 87, 88 & 89 Ranges of Stopping plugs**

5 Applicant: **International Metal Engineering PTE Limited**

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 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 IEC 60079-0:2018                      EN 60079-1:2014                      EN 60079-7:2015+A1  
EN 60079-31:2014

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

11 This EU-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:

**Stainless steel & Brass**



II 2 G D/ I M2  
Ex db I Mb or  
Ex db IIC T6 Gb or  
Ex eb I Mb or  
Ex eb IIC T6 Gb  
Ex tb IIIC T100°C Db IP6X  
Ta = -50°C to +85°C

**Aluminium**



II 2GD  
Ex db IIC T6 Gb or  
Ex eb IIC T6 Gb  
Ex tb IIIC T85°C Db IP6X  
Ta = -50°C to +85°C

Signed: J A May

Title: Director of Operations



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**SCHEDULE**

**EU-TYPE EXAMINATION CERTIFICATE**

**Sira 07ATEX1240X  
Issue 2**

**13 DESCRIPTION OF EQUIPMENT**

The Stopping Plugs are used to fill unused, threaded cable entries in associated apparatus without compromising the type of protection of the associated equipment. They comprise a metallic, cylindrical threaded body that has a male thread at one end, and at the other end there is a feature for securing the device, either a hexagonal head or one of the alternative forms tabulated below. Some metric threaded designs may also be fitted with a nitrile 'O' ring, interface seal for better ingress protection, see table below. NPT threaded Stopping Plugs and Types 83-, 88- and 89- Stopping Plugs require the application of non-setting (solvent free) thread sealant.

**General Design Options for:**

Head type	Model Code	Thread size	Fitted with Nitrile O-ring
No head but body machined with an external square head drive	83-X-011-M or C	M16 X 1.5	N
	83-X-012-M or C	M20 X 1.5	N
	83-X-013-M or C	M25 X 1.5	N
	83-X-019-M or C	1/2" NPT	N
	83-X-020-M or C	3/4" NPT	N
	83-X-021-M or C	1" NPT	N
Metallic hexagonal head	86-X-011-M or C	M16 X 1.5	Y
	86-X-012-M or C	M20 X 1.5	Y
	86-X-013-M or C	M25 X 1.5	Y
	86-X-019-M or C	1/2" NPT	N
	86-X-020-M or C	3/4" NPT	N
	86-X-021-M or C	1" NPT	N
Metallic round head, with an external hexagonal socket recess	87-X-011-M or C	M16 X 1.5	Y
	87-X-012-M or C	M20 X 1.5	Y
	87-X-013-M or C	M25 X 1.5	Y
	87-X-019-M or C	1/2" NPT	N
	87-X-020-M or C	3/4" NPT	N
	87-X-021-M or C	1" NPT	N
Thread run out with an internal hexagonal socket recess	88-X-011-M or C	M16 X 1.5	N
	88-X-012-M or C	M20 X 1.5	N
	88-X-013-M or C	M25 X 1.5	N
	88-X-019-M or C	1/2" NPT	N
	88-X-020-M or C	3/4" NPT	N
	88-X-021-M or C	1" NPT	N
Thread run out with an external hexagonal socket recess	89-X-011-M or C	M16 X 1.5	N
	89-X-012-M or C	M20 X 1.5	N
	89-X-013-M or C	M25 X 1.5	N
	89-X-019-M or C	1/2" NPT	N
	89-X-020-M or C	3/4" NPT	N
	89-X-021-M or C	1" NPT	N



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Issue 2**

**Material of manufacture:**

The part model code "X" is replaced with the following number to indicate the material of manufacture:

- T Stainless steel grade 316
- A Aluminium grade 6082-T6 (Not certified for Group I use)
- R Brass grade CuZn40

**Threadforms**

The stopping plugs are machined with one of the following thread forms complying with the requirements of EN 60079-1, Tables 3 or 4 and clause C.2.2 (as applicable).

- ISO Metric to IEC 9065 PARTS 1 & 3 (6g fit)
- NPT to ANSI/ASME B1.20.1

**Surface coating**

- The aluminium products are supplied anodized.
- The brass products are supplied nickel plated.

**Variation 1** - This variation introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the following standards upgrades have been considered: EN 60079-0:2006 is replaced by EN IEC 60079-0:2018, respectively; EN 60079-1:2004 is replaced by EN 60079-1:2014, respectively; EN 60079-7:2003+Corr. 1 is replaced by EN 60079-7:2015+A1; EN 61241-0:2006 & EN 61241-1:2004+Corr. 1&2 is replaced by EN 60079-31:2014, respectively. The marking is amended accordingly.
- ii. Notified body number change from 0518 to 2813 on label drawings.
- iii. IP68 changed to IP6X on all drawings to match the certificate.
- iv. Administrative changes to manufacturers documents that do not relate to the ATEX/IECEx certification.

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated CSA Group Reports and Certificate History**

Issue	Date	Report number	Comment
0	03 September 2008	R51A17183B	The release of the prime certificate.



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Issue 2**

Issue	Date	Report number	Comment
1	15 October 2019	3576	<ul style="list-style-type: none"> <li>Transfer of certificate Sira 07ATEX1240X from Sira Certification Service to CSA Group Netherlands B.V.</li> <li>EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i></li> </ul>
2	22 March 2022	R80086188A	The introduction of Variation 1.

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

- 15.1 The ranges of Stopping Plugs shall not to be used in conjunction with any other cable entry device.
- 15.2 The stopping plugs are suitable for a temperature at the point of mounting between -50°C to + 85°C.
- 15.3 The interfaces between the male thread of the products and an associated enclosure female cable entry device cannot be defined. Therefore, it is the user's responsibility to ensure that the appropriate ingress protection level is maintained at these interfaces.
- 15.4 The following stopping plugs are to be installed to the following tightening torque values based upon their thread size:

<b>Size</b>	M16	M20
<b>Torque Nm</b>	55	55

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 MANUFACTURE**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The surface coatings are to be no thicker than 0.008 mm maximum.
- 17.4 Products manufactured in aluminium alloy are not to be marked suitable for Group I applications.



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