



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX3279X** Issue: **4**

4 Equipment: **Breather Drain Type CV**

5 Applicant: **EX Innovations Limited**

6 Address: Jepson Court **Trading as Raxton**  
Tancred Close Kingsway South  
Queensway Westgate  
Royal Leamington Spa Aldridge  
Warwickshire CV31 3RZ UK West Midlands WS9 8FS UK

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 60079-7:2007 IEC 60079-31:2008

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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:

 I M2\* or  II 2 GD  
Ex e I Mb\* Ex e IIC Gb  
Ex t IIIC Db

\* Note: not applicable to Nylon variants of CV Breather/Drain

Ta = -50°C to 150°C

(Dependant on construction material and O-ring fitted, refer to Special Conditions of Safe Use)

Project Number 70004736

A C Smith  
Certification Manager

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## SCHEDULE

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#### 13 DESCRIPTION OF EQUIPMENT

The CV Breather Drain Plugs each comprise a hollow brass body that is threaded at one end to enable it to be fitted to the bottom of the associated 'Ex e' enclosure. The body contains a press-fitted sintered disc that allows moisture to pass out of the enclosure via two drain holes. These holes exit into the hexagonal socket which shrouds the drain holes and also provides a means of tightening the device.

The components are available with entry thread sizes between M16 and M32.

**Design Options:** An alternative body profile with three drain holes, in sizes M25 and M32 only.

**Alternative materials of manufacture:** Mild steel to BS 970:1983  
Stainless steel to BS 970:1983  
Glass filled nylon MDF2 900 (Not for Group I use)

**Plating Options:** Nickel, Zink, Electroless.  
Nickel maximum thickness 0.008mm.

**Alternative threadforms in equivalent sizes:** Metric to ISO 965 PT 1 & 3  
PG to DIN 40430:1971  
BSPP to BS 2279:1985  
ET to BS 31:1979  
NPS to ANSI/ ASME B1.20.1 -1983  
Any other threadform conforming to Table 3 f  
EN/IEC 60079-1 and clauses C.2.2 & C.2.3.1 as applicable

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

- i. The original product description was amended to correct typographical errors and omissions.
- ii. The list of supporting standards was clarified.
- iii. The addition of the Glass Filled Nylon MDF2 900 material option to the Type CV Breather/Drain, the description and marking being amended accordingly.
- iv. The marking for use in explosive dust atmospheres was corrected.
- v. The introduction of a Special Condition of Safe Use that clarifies the permitted temperature ranges.

**Variation 2** - This variation introduced the following change:

- i. The recognition that the company name and address has changed from Raxton Ltd, Westgate, Aldridge, West Midlands WS9 8FS to EX Innovations Ltd., Trading as Raxton at Jepson Court, Tancred Close, Queensway, Royal Leamington Spa, Warwickshire CV31 3RZ.
- ii. The introduction of a Condition of Certification.



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#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	03 November 2010	R22194A/00	The release of the prime certificate.
1	01 May 2012	R26410A/00	The introduction of Variation 1
2	09 November 2012	N/A	Issued to correct a typographical error in the marking
3	15 January 2013	R29745A/00	The introduction of Variation 2.
4	28 May 2014	R70004736A	The certificate was changed from a Component 'U' certificate into an Equipment certificate at this variation.

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

- 15.1 The limiting temperature ranges of these devices depends upon the their material of manufacture and the type of 'O' ring used in their construction as defined by the manufacturer, the user shall therefore install these devices in accordance with temperature values stated in the table below:

'O'-ring Material	Limiting temperature	
	Brass, mild steel or stainless steel	Nylon MDF2 900
None	-50°C to +150°C	-20°C to +65°C
Nitrile	-20°C to +80°C	-20°C to +65°C
EPDM (fitted as standard)	-30°C to +125°C	-20°C to +65°C
Neoprene	-20°C to +100°C	-20°C to +65°C
Viton	-5°C to +150°C	-5°C to +65°C
Silicone	-30°C to +150°C	-20°C to +65°C
Fluorosilicone	-50°C to +150°C	-20°C to +65°C

#### 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.
- 17.3 The CV Breather Drain Plugs that are constructed of Glass Filled Nylon MDF2 900 shall not be marked with any information that indicates that they are suitable for Group I use.
- 17.4 The manufacturer shall take all reasonable steps to ensure that the user can comply with the special conditions for safe use and shall advise the user in respect of the materials that are used in the construction of the devices.

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### Sira Certification Service

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- 17.5 Only Glass Filled Nylon type MDF2 900 shall be used in the manufacture of the non-metallic CV breather drains.
- 17.6 These products shall be marked in accordance with the information as specified in this certificate and related reports.

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# Certificate Annexe

Certificate Number: Sira 10ATEX3279X  
Component: Breather Drain Type CV  
Applicant: EX Innovations Limited Trading as Raxton



## Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
832 A	1 of 1	-	11 Oct 10	CV Breather Drain Plugs

## Issue 1

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
811	1 of 1	1	30 March 12	Ex e Glass Filled Nylon Breather Plug
832	1 of 1	1	04 Apr 12	Ex e Glass Filled Nylon Breather Plug
832A	1 of 1	1	04 Apr 12	Ex e Glass Filled Nylon Breather Plug

Issue 2 No new drawings were introduced.

## Issue 3

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
MD - 01	1 of 1	1	14 Jan 13	Raxton Marking Label Drawing

## Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
CV Marking	1 of 1	1	23 May 14	Raxton Marking for CV Products

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