



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 00ATEX1072X

4 Equipment: Range of Metallic Ex Cable Glands and the Type EB Range of Nylon Ex Cable Glands

5 Applicant: Raxton Limited

6 Address: Westgate
Aldridge
West Midlands
WS9 8FS

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 confidential report number R51A6772A.

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 50014:1997 (amendments 1 and 2)
EN 50018:2000
EN 50019:2000
EN 50281-1-1:1998

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 is detailed in section 13.

M. D. Shearman
Certification Manager

Project Number 51A6772
Date 3 September 2001
C. Index 07

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

Sira Certification Service

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 00ATEX1072X

13 DESCRIPTION OF EQUIPMENT

Ranges of Metallic Ex Cable Glands Drawing No. 821

Type EB-AG and S-EB-AG - a range of metallic cable glands for use with un-armoured cables. Each gland comprises a main body, with a male thread for fitting to the associated apparatus, a compression seal with skid washer and compression element. The types EB-AG and S-EB-AG vary due to the body profile - the S-EB-AG having a reduced bore and integral earthing facility.

Type EB-DW and S-EB-DW - a range of metallic cable glands for use with SWA cables. Each gland comprises a main body, with a male thread for fitting to the associated apparatus, a compression seal, armour cone with clamping ring and a compression element. The types EB-DW and S-EB-DW vary due to the body profile - the S-EB-DW having a reduced bore and integral earthing facility.

Type EB-DX and S-EB-DX - a range of metallic cable glands for use with braided cables. Each gland comprises a main body, with a male thread for fitting to the associated apparatus, a compression seal, braid cone with clamping ring and a compression element. The types EB-DX and S-EB-DX vary due to the body profile - the S-EB-DX having a reduced bore and integral earthing facility.

Type EB-EW and S-EB-EW - a range of metallic cable glands for use with SWA cables. Each gland comprises a main body, with a male thread for fitting to the associated apparatus, a front compression seal, an armour cone with clamping ring, a threaded barrel, rear seal with skid washer and a compression element. The types EB-EW and S-EB-EW vary due to the body profile - the S-EB-EW having a reduced bore and integral earthing facility.

Type EB-EX and S-EB-EX - a range of metallic cable glands for use with braided cables. Each gland comprises a main body, with a male thread for fitting to the associated apparatus, a front compression seal, an armour cone with clamping ring, a threaded barrel, rear seal with skid washer and a compression element. The types EB-EX and S-EB-EX vary due to the body profile - the S-EB-EX having a reduced bore and integral earthing facility.

Metallic material options: Brass to BS 2874:1985 or BS 2872:1989
Stainless steel to BS 970: part 4:1970
Mild steel to BS 970: Part 1: 1983
Aluminium bronze to BS 1400:1985

Entry thread options: ISO Metric M16 to M75 to BS 3643:1981
ET Conduit to BS 31:1940
PG to DIN 40430:1971
BSPP to BS 2779:1985
BSPT to BS 21:1985
NPT to ANSI/ASME B1.20.1-1983

The marking of the equipment shall include the following:



IICGD
EEx de IIC

Date 3 September 2001

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SCHEDULE

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**Type EB Range of Nylon Ex Cable Glands
Drawing No. 820**

A range of plastic cable glands; manufactured from 'Grillon 2 R40 GM'. The type EB glands are used use on un-armoured cables. Each gland comprises a threaded body, a fixing ring, a compression seal and a compression element. The glands are supplied with a locknut and washer.

Entry thread options: ISO Metric M16 to M50 to BS 3643:1981
 ET Conduit to BS 31:1940
 PG to DIN 40430:1971
 BSPP to BS 2779:1973
 NPT to ANSI/ASME B1.20.1-1983

The marking of the equipment shall include the following:



II2GD
EEx de IIC

Date 3 September 2001

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 00ATEX1072X

14 DESCRIPTIVE DOCUMENTS

14.1 Drawing No.	Sheet	Rev.	Date	Title
821	1 of 1	-	05 Apr 01	Metallic Cable Glands
820*	1 of 1	-	29 Mar 01	Nylon Cable Glands

* This drawing was amended by Sira on 30 August 2001.

14.2 Report No. R51A6772A

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

15.1 The following conditions are applicable to the range of metallic cable glands:

15.1.1 These devices shall only be used on fixed apparatus where the cable is effectively clamped elsewhere, thus preventing twisting and pulling.

15.1.2 These devices shall not be used with flameproof, Group IIC enclosures that have a volume in excess of 2000 cm³.

15.1.3 The (S) variants shall not be used where entry is restricted and the minimum thread engagement cannot be achieved.

15.2 The following conditions are applicable to the Type EB Range of Nylon Cable Glands:

15.2.1 These devices shall only be used in the following temperature ranges:

Cable gland sizes up to and including PG21/M25

Cable gland sizes larger than PG21/M25

Temperature at the point of mounting
-20°C to +60°C

Temperature at the point of mounting
-10°C to +60°C

15.2.2 These devices shall only be used on fixed apparatus where the cable is effectively clamped elsewhere thus preventing twisting and pulling.

15.2.3 Cable gland sizes larger than PG21/M25 shall not be used for applications where there is a 'high' risk of mechanical damage.

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 Report No. R51A6772A.

17 CONDITIONS OF CERTIFICATION

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

Date 3 September 2001

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