



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **BAS 01ATEX2271X** Issue: **9**

4 Equipment: **Type CR-***, CR-D** & CR-O*** Cable Glands**

5 Applicant: **Peppers Cable Glands Limited**

6 Address: Peppers Cable Glands Ltd
Stanhope Road
Camberley
Surrey GU15 3BT
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 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 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009


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 specific conditions of use specified 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:

CR-* Type and CR-D** Type**
 II 2G
Ex d IIC Gb
Ex e IIC Gb

 II 1D
Ex ta IIIC Da

CR-0* Type**
 II 2G
Ex e IIC Gb

 II 1D
Ex ta IIIC Da

Project Number 70058330

N Jones
Certification Manager

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13 DESCRIPTION OF EQUIPMENT

The type CR-***, CR-D** and CR-O*** ranges of cable glands may be supplied in gland size 16 to 100 with entry thread sizes M20 to M100 or with the equivalent size NPT, NPSM, BSPP, BSPT, PG or ET entry thread forms. They are intended for use with effectively filled and circular armoured, unarmoured, braided, tape or screened sheathed cables and compromise the following components: -

- | | | | |
|----|-----------------------------------|----|-----------------------------------|
| a. | An entry component | f. | A tapered clamp ring |
| b. | An elastomeric inner sealing ring | g. | A middle nut |
| c. | A metal inner skid washer | h. | An elastomeric outer sealing ring |
| d. | A compression nut | i. | A nylon outer skid washer |
| e. | An armour clamping cone | j. | A back nut |

Additional assembly options are described by the following designation coding:-

Gland Type: **CR-*****

Available Part No's.:	C	R	*	*	*
			1	B	R
			2	S	
			3		
			4		

Options:	1	Neoprene Seals
	2	Neoprene Seals with Lead Sheath Cable Continuity Washer
	3	Silicone Seals
	4	Silicone Seals with Lead Sheath Cable Continuity Washer
	B	Brass material
	S	316 Stainless Steel material
	R	Reducer Bore option

Gland Type: **CR-D****

Available Part No's.:	C	R	D	*	*
				1	B
				2	S
				3	
				4	

Options:	1	Neoprene Seal
	2	Neoprene Seal with Lead Sheath Cable Continuity Washer
	3	Silicone Seal
	4	Silicone Seal with Lead Sheath Cable Continuity Washer
	B	Brass material
	S	316 Stainless Steel material

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Gland Type: **CR-O*****

Available Part No's.:	C	R	O	*	*	*
				1	B	R
				3	S	

Options:	1	Neoprene Seal
	3	Silicone Seal
	B	Brass material
	S	316 Stainless Steel material
	R	Reducer Bore option

Type CR-D** Cable Glands

The Type CR-D** Cable Glands are used with armoured, unarmoured, braided or screened sheathed cables. They are formed by removing the outer cap, outer seal and outer skid washer from the Type CR-*** cable glands and fitting an alternative middle cap component, in addition these glands are fitted with an O-ring entry body seal. The Type CR-D** Cable Glands are available with ISO metric entry threads of M20 to M100 (alternative thread forms are available in equivalent sizes) in cable gland sizes 16 through to 100, they can be made from either brass (B) or stainless steel (S).

Type CR-O*** Cable Glands

The Type CR-O*** Cable Glands are used with armoured, non-lead sheathed cables. They are formed by removing the inner sealing ring and its associated skid washer from the Type CR-*** cable glands, in addition these glands are fitted with an O-ring entry body seal. The Type CR-O*** Cable Glands are available with ISO metric entry threads of M20 to M100 (alternative thread forms are available in equivalent sizes) in cable gland sizes 16 through to 100, they can be made from either brass (B), stainless steel (S) and fitted with an optional reduced bore outer seal (R).

Sira Variation 1 - This variation introduced the following changes:

- To permit the use of CR1* (neoprene) range of cable glands within an operating temperature range of 85°C; this change necessitates the amendment of special condition for safe use clause 15.2.
- To allow the use of the CR** range of cable glands on a revised inner sheath cable range.
- To permit the use of the CR** range of cable glands for installations with an ingress protection rating of IPX8.
- To allow the serial/batch number to be removed from the product marking and relocated on the packaging.
- The introduction of additional minor dimensional and text changes to drawings.
- To permit the use of the CR** range of cable glands with unarmoured, braided or screened cables and the application of a new special condition for safe use clause 15.4.
- To allow the removal of seal temperature marking on the seals.

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Sira Variation 2 - This variation introduced the following changes:

- i. The introduction of the following new types:
 - Type CR2* Cable Glands** – incorporating neoprene seals and continuity washer.
 - Type CRD1* Cable Glands** – incorporating neoprene seals
 - Type CRD3* Cable Glands** – incorporating silicone seals
 - Type CRO1* Cable Glands** – incorporating neoprene seals
 - Type CRO3* Cable Glands** – incorporating silicone seals
- ii. To permit the CR1*, CR2*, CR3*, CRD1* and CRD3* Ranges of Cable Glands to be marked IP68; this indicates that they have been tested at a depth up to 25 m for a duration of 30 minutes when fitted into either threaded entries or 'EEx e' enclosures that have plain hole entries with 0.5 mm clearances. The CR-0** Cable Glands will be marked IP66.
- iii. To allow the use of NBR O-ring interface seals with the CR** Range of Cable Glands that are fitted with neoprene sealing rings.
- iv. To recognise the introduction of minor drawing changes.
- v. The Special Conditions For Safe Use clause numbers 15.2 and 15.4 are amended to recognise the new types introduced with this variation.

Sira Variation 3 - This variation introduced the following changes:

- i. Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents originally listed in section 9, EN 50014:1997 (amendments 1 and 2), EN 50018:2000, EN 50019:2000 and EN 50281-1-1:1998, were replaced by those currently listed, the markings in section 12 were updated accordingly and the conditions were modified to recognise the requirements of the latest standards.
- ii. Special Condition for Safe Use 15.5 was introduced.

Sira Variation 4 - This variation introduced the following change:

- i. A clarification to the Type CR**** Cable Glands.

Sira Variation 5 - This variation introduced the following changes:

- i. The recognition of minor drawing modifications; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.
- ii. The list of certified drawings was rationalised.

Sira Variation 6 - This variation introduced the following change:

- i. The introduction of the size 110 to the Type CR**** Cable Glands as approved.

Sira Variation 7 - This variation introduced the following change:

- i. Following appropriate reassessment to demonstrate compliance with the requirements of the latest editions of the EN 60079 series of standards, the documents previously listed in section 9, EN 60079-0:2006, EN 61241-0:2006 and EN 61241-1:2004 were replaced by those currently listed, the markings were updated accordingly, the Special Conditions for Safe Use were also amended. Size 110 has not been included in this upgrade, and is removed from the current certification.



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- ii. Type of protection Ex t is upgraded from EPL Db to EPL Da. Following appropriate reassessment to demonstrate compliance with the additional requirements for Ex ta, the markings were updated accordingly.
- iii. The introduction of an alternative silicone and neoprene seal material was endorsed.
- iv. The service temperature range of the glands fitted with a neoprene seal was extended to -35°C to +90°C.
- v. The CR-*** and CR-D** cable glands, when installed in accordance with the manufacturer's instructions and with an appropriate enclosure on which they are fixed, are capable of providing an ingress protection of IP66 and IP68 (50 metres 7 days).
- vi. The description for the certificates have been amended to clarify that the CR**** Cable Gland Ranges are clarified as: CR-***, CR-D** and CR-O***.
- vii. The removal of the special condition for safe use relating to enclosure volume, the remaining conditions are renumbered accordingly.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	04 April 2002	BAS 00 (C)1048	The release of the prime certificate.
1	02 May 2003	Sira R51A10029A	The introduction of Sira Variation 1.
2	21 April 2005	Sira R51A10999A	The introduction of Sira Variation 2.
3	04 June 2009	Sira R51A20139A	This Issue covers the following changes: <ul style="list-style-type: none">• All previously issued certification was rationalised into a single certificate, Issue 3, Issues 0 to 2 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.• The introduction of Sira Variation 3.
4	26 June 2009	N/A	Re-issued to correct the Conditions For Safe Use.
5	27 July 2009	R51A20631A	The introduction of Sira Variation 4.
6	12 November 2009	R20864A	The introduction of Sira Variation 5.
7	12 January 2012	R26454A/00	The introduction of Sira Variation 6.
8	20 December 2012	R3865A/00	The introduction of Sira Variation 7.

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Issue	Date	Report number	Comment
9	26 April 2016	R70058330A	This Issue covers the following changes: <ul style="list-style-type: none">• EC-Type Examination Certificate in accordance with 94/9/EC updated to EU-Type Examination Certificate in accordance with Directive 2014/34/EU.• (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.)

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

- 15.1 Glands fitted with neoprene sealing rings (black) shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -35°C to +90°C.
- 15.2 Glands fitted with silicone sealing rings (white or red) shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -60°C to +180°C.
- 15.3 When the gland is used with increased safety and/or dust protected equipment, the entry thread shall be suitably sealed to maintain the ingress protection rating of the associated enclosure.
- 15.4 If the CR-***, CR-D** and CR-O*** types of cable glands only grip the cable sheath of the cable and do not clamp the cable armour or if they are used to terminate unarmoured, braided or screened cables, then they shall only be used for fixed installations, hence, the cables shall be effectively clamped to prevent pulling or twisting.
- 15.5 The CR-*** and CR-D** cable glands, when installed in accordance with the manufacturer's instructions and with an appropriate enclosure on which they are fixed, are capable of providing an ingress protection of IP66 and IP68 (50 metres 7 days).
- 15.6 The CR-O*** range of cable glands, when installed in accordance with the manufacturer's instructions and with an appropriate enclosure on which they are fixed, are capable of providing an ingress protection of IP66.
- 15.7 Where glands without sealing rings are installed in protection by enclosure (Ex t) equipment for use in explosive dust atmospheres, they may only be fitted into enclosures offering a minimum of 5 full threads, in accordance with EN 60079-31:2009 clause 5.1.1.

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.

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17 **CONDITIONS OF MANUFACTURE**

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

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Certificate Annexe



Certificate Number: BAS 01ATEX2271X

Equipment: Type CR-***, CR-D** & CR-O*** Cable Glands

Applicant: Peppers Cable Glands Limited

Issue 0

Drawing No.	Sheet	Rev.	Date	Description
PCG/ATX/CR	1 of 1	1	05 Dec 01	General Arrangement
PCG/MATS/SB	1 of 1	1	20 Sep 01	Material Specifications
PCG/ETDMV	1 of 1	1	20 Sep 01	Thread Specifications
PCG/ATX/1V	1 of 1	1	20 Mar 02	Entry Component
PCG/ATX/82V	1 of 1	1	19 Sep 01	Inner Seal
PCG/ATX/91V	1 of 1	1	09 Mar 01	Inner Skid Washer
PCG/ATX/8V	1 of 1	1	04 Oct 01	Compression Nut
PCG/ATX/3V	1 of 1	1	07 Nov 01	Armour Clamp Cone
PCG/ATX/10V	1 of 1	1	07 Nov 01	Armour Clamp Ring
PCG/ATX/5V	1 of 1	1	20 Mar 02	Middle Nut
PCG/ATX/2M	1 of 1	1	19 Sep 01	Outer Seal
PCG/ATX/11M	1 of 1	1	07 Nov 01	Outer Skid Washer
PCG/ATX/6M	1 of 1	1	07 Nov 01	Back Nut

Issue 1

Drawing No.	Sheet	Rev.	Date	Description
PCG/ATX/CR	1 of 1	2	10 Feb 2003	General arrangement
PCG/ATX/5V	1 of 1	2	16 Jan 2003	Middle cap component
PCG/ATX/82V	1 of 1	2	9 Apr 2003	Inner seal component
PCG/ATX/2M	1 of 1	2	9 Apr 2003	Outer seal component

Issue 2

Drawing no:	Sheets	Rev.	Date	Description
PCG/ATX/CR	1 of 1	3	09 Dec 04	General arrangement
PCG/ATX/5V	1 of 1	3	22 Mar 04	Middle cap component
PCG/ATX/1V	1 of 1	2	23 Jan 04	Entry body
PCG/ATX/8V	1 of 1	2	04 Feb 04	Compression nut
PCG/LW3	1 of 1	2	23 Jan 04	Continuity washer
PCG/ATX/CRD	1 of 1	1	09 Dec 04	General arrangement
PCG/ATX/CR0	1 of 1	1	09 Dec 04	General arrangement
PCG/OR	1 of 1	1	17 Sep 01	O-ring seals
PCG/ATX/4V	1 of 1	1	06 Jul 04	ATEX component cap part 4V

Issue 3

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Description
PCG/ATX/CRD	1 of 1	2	27 Apr 09	General Arrangement
PCG/ATX/CRO	1 of 1	2	27 Apr 09	General Arrangement
PCG/ATX/CR	1 of 1	4	27 Apr 09	General Arrangement
PCG/ETDMV	1 of 1	4	02 Jun 09	Standard Thread Chart
PCG/ATX/1V	1 of 1	4	30 Sep 08	Entry Body Part 1V

Issues 4 and 5 No new drawings were introduced.

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Certificate Annexe



Certificate Number: BAS 01ATEX2271X
Equipment: Type CR-***, CR-D** & CR-O*** Cable Glands
Applicant: Peppers Cable Glands Limited

Issue 6

Drawing No.	Sheets	Rev.	Date	Description
PCG/ATX/CR	1 of 1	6	05 Nov 09*	General Arrangement
PCG/ATX/CRD	1 of 1	4	05 Nov 09*	General Arrangement
PCG/ATX/CRO	1 of 1	2	27 Apr 09*	General Arrangement
PCG/MATS/SB	1 of 1	2	12 Oct 09*	Material Specifications
PCG/ETDMV	1 of 1	5	11 Sep 09*	Thread Specifications
PCG/ATX/1V	1 of 1	5	15 Sep 09*	Entry Component
PCG/ATX/82V	1 of 1	4	15 Sep 09*	Inner Seal
PCG/ATX/82N	1 of 1	3	15 Sep 09	Seal
PCG/ATX/91V	1 of 1	4	08 Oct 09*	Inner Skid Washer
PCG/ATX/91A	1 of 1	1	02 Oct 09*	ATEX Component Skid Washer – Parts 91AS, 91AB, 91ABT
PCG/ATX/8V	1 of 1	2	04 Feb 04	Compression Nut
PCG/ATX/3V	1 of 1	3	15 Sep 09*	Armour Clamp Cone
PCG/ATX/10V	1 of 1	2	15 Sep 09*	Armour Clamp Ring
PCG/ATX/5V	1 of 1	3	22 Mar 04	Middle Nut
PCG/ATX/2M	1 of 1	2	09 Apr 03	Outer Seal
PCG/ATX/11M	1 of 1	1	07 Nov 01	Outer Skid Washer
PCG/ATX/6M	1 of 1	2	11 Sep 09*	Back Nut
PCG/LW3	1 of 1	4	15 Sep 09*	Continuity washer
PCG/OR	1 to 2	5	15 Sep 09*	O-ring seals
PCG/ATX/4V	1 of 1	2	02 Oct 09*	ATEX component cap part 4V

* This is the Sira stamp date.

Issue 7

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Description
PCG/ATX/CR	1 of 1	7	21 Dec 11	General Arrangement
PCG/ATX/1VOS	1 of 1	1	21 Dec 11	Entry Component
PCG/ATX/82NOS	1 of 1	1	21 Dec 11	Seal
PCG/ATX/91AOS	1 of 1	1	21 Dec 11	ATEX Component Skid Washer – Parts 91AS, 91AB, 91ABT
PCG/ATX/8V	1 of 1	3	21 Dec 11	Compression Nut
PCG/ATX/3V	1 of 1	4	21 Dec 11	Armour Clamp Cone
PCG/ATX/10V	1 of 1	4	21 Dec 11	Armour Clamp Ring
PCG/ATX/5V	1 of 1	4	21 Dec 11	Middle Nut
PCG/ATX/2MOS	1 of 1	1	21 Dec 11	Outer Seal
PCG/ATX/11M	1 of 1	3	21 Dec 11	Outer Skid Washer
PCG/ATX/6MOS	1 of 1	1	21 Dec 11	Back Nut
PCG/OR	1 of 1	5	21 Dec 11	O-ring seals

Issue 8

Drawing	Sheets	Rev.	Date (Sira stamp)	Titles
PCG/ATX/CR	1 to 2	8	04 Oct 12	ATEX Range gland – CR-*** for armoured/ unarmoured/ braided/ screened cable
PCG/ATX/CRD	1 to 2	5	04 Oct 12	ATEX Range gland – CRD*** for armoured/ unarmoured/ braided/ screened cable
PCG/ATX/CRO	1 to 2	3	04 Oct 12	ATEX Range gland – CRO*** for armoured cable
PCG/ATX/1V	1 of 1	8	04 Oct 12	ATEX component entry body part 1V

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Certificate Annexe



Certificate Number: BAS 01ATEX2271X

Equipment: Type CR-***, CR-D** & CR-O*** Cable Glands

Applicant: Peppers Cable Glands Limited

Drawing	Sheets	Rev.	Date (Sira stamp)	Titles
PCG/ATX/1VT	1 of 1	2	04 Oct 12	ATEX component entry body part 1VT
PCG/ATX/3V	1 of 1	5	04 Oct 12	ATEX component cone part 3V
PCG/ATX/4V	1 of 1	4	04 Oct 12	ATEX component cap part 4V
PCG/ATX/5V	1 of 1	6	04 Oct 12	ATEX component middle cap part 5V
PCG/ATX/8V	1 of 1	5	04 Oct 12	ATEX component compression bush part 8V
PCG/ATX/2M	1 of 1	5	04 Oct 12	ATEX Component Seal – parts 2MI, 2MIS, 2MO, 2MOS, 2MOZS
PCG/ATX/6M	1 of 1	4	04 Oct 12	ATEX component outer cap part 6M
PCG/ATX/11M	1 of 1	3	04 Oct 12	ATEX component skid washer parts 11MI, 11MO
PCG/ATX/82N	1 of 1	5	04 Oct 12	ATEX component seals 82N & 82NS
PCG/ATX/82V	1 of 1	5	04 Oct 12	ATEX component seal parts 82V, 82VS
PCG/ATX/91A	1 of 1	3	04 Oct 12	ATEX Component Skid Washer – Parts 91AS, 91AB, 91ABT
PCG/ATX/91V	1 of 1	4	04 Oct 12	Skid washer- parts 91V, 91VB, 91VBT
PCG/ETOR	1 of 1	7	04 Oct 12	Entry Thread O-Ring Seal Part OR
PCG/LW2	1 of 1	7	04 Oct 12	Continuity Washer LW2
PCG/LW3	1 of 1	6	04 Oct 12	Continuity Washer LW3
PCG/ETDMV	1 of 1	6	04 Oct 12	Standard Thread Chart
PCG/MATS/SB	1 of 1	3	04 Oct 12	Standard materials ATEX certified glands using "M", "V" and "N" components
PCG/ETRO	1 of 1	1	04 Oct 12	Entry Thread Components Run Out Specification
PCG/ORGD	1 of 1	2	04 Oct 12	Component entry body O-ring groove detail
PCG/PRE-PLT	1 of 1	1	04 Oct 12	Entry Thread Components Pre-Plate Thread Manufacturing Tolerances
PCG/ATX/PEXMP	1 of 1	1	04 Oct 12	Marking Plan

Issue 9 No new drawings were introduced.

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