



EU Type Examination Certificate CML 18ATEX1323X Issue 0

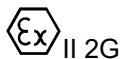
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Cable Gland Types C****
- 3 Manufacturer **CMP Products Ltd**
- 4 Address **Unit 36 Nelson Way,
Nelson Park East,
Cramlington, NE23 1WH,
United Kingdom**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V. , Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 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.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2018

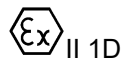
EN 60079-7:2015+A1:2018

EN 60079-31:2014

- 10 The equipment shall be marked with the following:



Ex eb IIC Gb



Ex ta IIIC Da

Ta= -60°C to +130°C (standard seal)

-20°C to +200°C (high temperature seal)



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11 Description

The C** series Type ranges of cable glands consist of a male-threaded front entry component, which is intended to screw into an entry point of its associated enclosure in accordance with relevant codes of practice. Clamping of the armour or braid is affected by a combination of the front entry component, main body and the different optional armour cone and armour sleeve combinations being fastened together. An outer seal nut, containing an elastomeric sealing ring and a Nylon 6 ferrule, threads onto the main body and effects environmental sealing onto the cable outer sheath

Design options

The front entry component may be manufactured with a profiled groove to captivate an O-ring seal which locates on the mating face with the associated enclosure. This option having the gland type designation prefixed with the letter R, e.g. 25RC2K

The C2K can be supplied with a cone dedicated to SWA cable and known as the C2KW, or with a cone dedicated to braid or tape armours and known as the C2KX.

Materials of manufacture:

The standard material supplied is:

Brass	BS EN 12164:2011/ BS EN 12168:2011 Grade CuZn39Pb3 (CW614N) All brass manufactured component parts can be optionally nickel plated to a maximum of 0.008mm
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Alternate materials are:

Stainless steel	BS EN 10088-3:2014 Grades 316S11, 316S13, 316S31, 316S33, 316L
Mild steel	BS EN 10277-2:2008 Grades 220M07, 230M07 (EN1A) / 220M07Pb, 230M07Pb (EN1APb)
Aluminium	BS EN 573-3:2013 / BS EN 755-1-3:2008 Grade 6082 T6, 6262 T6 / BS EN 1676:2010 Grade LM25 TF Aluminium will contain less than 6% magnesium

Alternative entry component thread forms:

Metric	ISO 965-1, ISO 965-3 medium fit (6g) for external threads
ET (Conduit)	BS31:1940 (1979), Table A
PG	DIN 40430:1971
BSPP	BS2779:1986 class A full form for external threads
BSPT	BS21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
ISO	ISO 7/1:1994, gauging to ISO 7/2 clause 6.3 for external threads
NPT	ANSI/ASME B1.20.1-2013 gauging to clause 3.2 for external threads
NPSM	ANSI/ASME B1.20.1-2013 gauging to clause 6.4 for external threads

The option to manufacture glands with entry threads that are one size up from the nominal quoted gland size.

The use of alternative armour clamping components. The various arrangements vary the cable gland suitability for differing armour or braided type cables.



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The use of a component having an alternative profile allowing an integral earthing facility. The type designation identifying the cable gland being fitted with this option.

The use of an earthing device component specified by the cable gland type designation for use with variable speed drive (VSD)/variable frequency drive (VFD) cables.

Alternative material of manufacture of the ferrule or skid washer to be the same as the gland material.

Alternative outer seal arrangement to allow the glands to be attached to flexible conduit.

The gland and seal sizes are determined by the entry thread and cable range take sizes:

The option to fit a flat blanking disc between the outer seal and the main body to maintain a minimum IP66 rating. The disc is to be marked 'Ex e only'.

Type designation code:

C	*** **
C	Fitted with the alternative cast integral earth lug entry component
VAR	Fitted with an additional metallic continuity device for use with variable speed drive (VSD) / variable frequency drive (VFD) cables
FF	Fitted with seals suitable for use with flat form cables
We	Fitted with single plain armour cone and reversible armour sleeve to suit S.W.A. armoured cables
Xe	Fitted with single grooved armour cone and reversible armour sleeve to suit S.W.A., S.T.A., P.W.A., and strip armoured and braided cables
2K	Fitted with a deluge seal, reversible armour cone and reversible armour sleeve to suit S.W.A., S.T.A., P.W.A., and strip armoured and braided cables
2KW	Fitted with a deluge seal, a single plain armour cone and reversible armour sleeve to suit S.W.A. armoured cables
2KX	Fitted with a deluge seal, a single plain armour cone and reversible armour sleeve to suit S.W.A., S.T.A., P.W.A., and strip armoured and braided cables
VAR	Optional construction where the cone and sleeve assembly are replaced by a metallic continuity device for use with variable speed drive (VSD) / variable frequency drive (VFD) cables



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The gland and seal sizes are determined by the entry thread and cable range take sizes:

Gland size	Entry thread	Entry thread 'B' version	Cable inner sheath Ø (mm)	SWA (mm)		SWA, STA, strip armour, pliable wire armour* & wire braid (mm)		Outer seal sheath range (mm)	
				Max.	Min.	Max.	Min.	Max.	Min.
16	M16 x 1.5	-	8.7	0.8	1.25	0	0.8	6.1	13.2
20s/16	M20x1.5	M25 x 1.5	8.7	0.8	1.25	0	0.8	6.1	13.2
20s	M20 x 1.5	M25 x 1.5	11.7	0.8	1.25	0	0.8	9.5	15.9
20	M20 x 1.5	M25 x 1.5	14.0	0.8	1.25	0	0.8	12.5	20.9
25s	M25 x 1.5	M32 x 1.5	20.0	1.25	1.6	0	1.1	14.0	22.0
25	M25 x 1.5	M32 x 1.5	20.0	1.25	1.6	0	1.1	18.2	26.2
32	M32 x 1.5	M40 x 1.5	26.3	1.6	2.0	0	1.2	23.7	33.9
40	M40 x 1.5	M50 x 1.5	32.2	1.6	2.0	0	1.2	27.9	40.4
50s	M50 x 1.5	M63 x 1.5	38.2	2.0	2.5	0	1.5	35.2	46.7
50	M50 x 1.5	M63 x 1.5	44.1	2.0	2.5	0	1.0	40.4	53.1
63s	M63 x 1.5	M75 x 1.5	50.0	2.0	2.5	0	1.0	45.6	59.4
63	M63 x 1.5	M75 x 1.5	56.0	2.0	2.5	0	1.0	54.6	65.9
75s	M75 x 1.5	M90 x 2.0	62.0	2.0	2.5	0	1.0	59.0	72.1
75	M75 x 1.5	M90 x 2.0	68.0	2.5	3.0	0	1.0	66.7	78.5
90	M90 x 2.0	M100 x 2.0	80.0	3.0	3.5	0	1.6	76.2	90.4
100	M100 x 2.0	M115 x 2.0	91.0	3.15	4.0	0	1.6	86.1	101.5
115	M115 x 2.0	M130 x 2.0	98.0	3.15	4.0	0	1.6	101.5	110.3
130	M130 x 2.0	N / A	115.0	3.15	4.0	0	1.6	110.2	123.3

* - 'Xe' and '2K versions only

C*-FF in these sizes only.

Gland Size	Entry Thread	Entry thread 'B' version	Cable Outer Sheath Ø (mm)	
			Min.	Max.
20s	M20x1.5	M25x1.5	4.4 x 7.8	6.8 x 11.7
20	M20x1.5	M25x1.5	4.4 x 10.9	8.7 x 16.0

Notes:

- Sira 13ATEX1070X, Sira 13ATEX4076X and IECEx SIR 13.0025X is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 13ATEX1070X, Sira 13ATEX4076X and IECEx SIR 13.0025X.
- Where Sira 13ATEX1070X, Sira 13ATEX4076X and/or IECEx SIR 13.0025X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	26 Mar 2019	R12060G/00	Issue of Prime Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

None.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. When the cable glands are supplied with an entry thread that is one size up from the nominal gland size, designated with the letter 'B' after the gland size, e.g. 32B****, they shall not be used with any adaptor device.
- ii. The glands when used for terminating braided cables are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.
- iii. When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent pulling or twisting.

Certificate Annex

Certificate Number CML 18ATEX1323X
Equipment Cable Gland Types C**
Manufacturer CMP Products Ltd



The following documents describe the equipment or component defined in this certificate:

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Drawing No	Sheets	Rev	Approved date	Title
GA350	1 of 1	01	26 Mar 2019	CXe and CWe General arrangement and marking
GA351	1 of 1	01	26 Mar 2019	C2K General arrangement and marking
SCH0322	1 of 1	00	26 Mar 2019	Outer seal details
SCH0323	1 of 1	00	26 Mar 2019	Armour clamp details
SCH0324	1 of 1	00	26 Mar 2019	C2K Armour clamp details