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MOLANS CERTIONAR		Explosion Preve	0	(Pty) Ltd		Tel: +	Rd / PO Box 46 Olifantsfonte 166 27 (11) 316 460 27 (11) 316 567 @explolabs.co.z	in 35 01 70	
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<b>ETHOLAS</b>	IN		108: "REGULATORY	REQUIREMENTS	S FOR EXP	PLOSION PROTECTED APPA	RATUS"	MICHAR	
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S	Ex – Type	e Examinatio	n Certificate				13500.		
STHOLDS	Certificate		S-XPL/21.000	9 X					
<b>P</b>	Equipment Model / Ty		Cable Gland C**						
<b>EPHOLAS</b>	Applicant:	F • .	-	C CMP Products Limited					
			Glasshouse \$	Street					
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9°			numbers cove	area by a valia i	report or		incation mark.		
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	CMP Products Limited								
8	Identified by Inspection Authority number S-XPL/21.0009 X								
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						is hereby <u>certified "Exp</u>			
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Explosive atmospheres Part 0: Equipment — General requirements									
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3	SANS 60079-15: 2022 Ed 5 Explosive atmospheres Part 15: Equipment protection by type of protection								
	IEC 60079-15: 2017 Ed 5 "n"								
Ð	SANS 60079-31: 2014 Ed 2 Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"						/ NUMBER		
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JUN	Risk of igniti	ion provided:			I				
<b>8</b>	Protection	Equipment Protection	Perfo	rmance of			T class or Ma	ax [	
<b>ETHOLADS</b>	afforded	Level (EPL)		otection		Conditions of operation	Surface Temp (°C)		
æ		Group	Suitabl	e for normal			,		
	Lliah	Gb	operation	and frequently	mont	Equipment remains	Not Appliach		
<b>EPIOLAS</b>	High	Group II		bances or equipr e normally taken		functioning in zones 1 and 2	Not Applicab	שוי ער שוי	
<b>P</b>				ccount				OIVARS	
<b>STOLIS</b>		Da	Two independent			Equipment remains	Not Are 11		
	Very high	Group III		en two faults occ itly of each other		functioning in zones 20, 21 and 22	Not Applicab	ie 🧧	
100000000		Gc		-		Equipment remains			
STUDINS	Enhanced	Group II	Suitable for	normal operatior	<u>ו</u>	functioning in zone 2	Not Applicab	le 🦉	
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# Openants Openants

Ex eb IIC Gb Ex nR IIC Gc (not applicable to CXe and CWe) Ex ta IIIC Da Ta =-60C to +130C(standard seal) / -20C to +200C (high temperature seal)

The C<sup>\*\*</sup> 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:

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

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

## Alternate entry component thread forms:

Alternate entry component t	
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.

Servior

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.

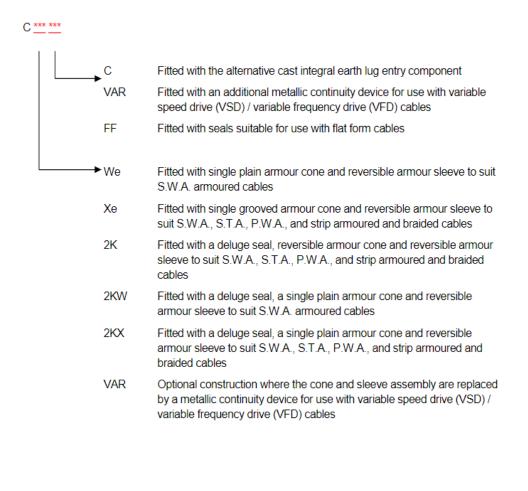
Alternative material of manufacture of the ferrule or skid washer to be the same as the gland material.

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:



Gland size	e gland and se Entry thread	Entry Entry Thread 'B' version	Cable i Sheat (mn	nner h Ø	SWA (mm)	S str pl a	range take WA, STA, ip armour, iable wire rmour* & <i>v</i> ire braid (mm)	Out sheat	er seal th range mm)
			Max.	Min.	Max.	Min.	Max.	Min.	Max.
16	M16 x 1.5	-	8.7	0.8	1.25	0	0.8	6.1	13.2
20s/16	M20 x 1.5	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 Throad	Entry thread 'B'	Cable Outer sheath Ø (mm)		
Gianu Size	Entry Thread	Version	Min.	Max.	
20s	M20 x 1.5	M25 x 1.5	4.4 x 7.8	6.8 x 11.7	
20	M20 x 1.5	M25 x 1.5	4.4 x 10.9	87 x 16 .0	

#### Notes:

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•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, Sira13ATEX4076X 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

Based on the following documentation: IECEx CML 18.0180X. Issue 0.

## INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

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

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.

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	ANNEX TO CERTIFICATE NO S-XPL/21.0009 X PAGE 5 OF 5 iii. When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to
	prevent pulling or twisting.
4.	CONDITIONS OF CERTIFICATION All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.
5.	MARKING The following (or similar) information have to be clearly and permanently marked on all units:
	Supplier       : CMP Products Limited         Manufacturer       : CMP Products Limited         Equipment       : Cable Gland
STOLAS	Model/Type       : C**         Serial No.       :         Ex Rating       : Ex eb IIC Gb
NOW	Ex nR IIC Gc (not applicable to CXe and CWe) Ex ta IIIC Da Ta =-60C to +130C(standard seal) / -20C to +200C (high temperature seal)
	IA Certificate No : S-XPL/21.0009 X tification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided apparatus is used as relevant in accordance with:
i) ii) iii)	SANS 10086 and IEC/SANS 61241-14 requirements as applicable; Any conditions mentioned in the above report; Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
v) v) vi) vii)	Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety. A revision certificate replaces all previous version of the certificate. * - Only covers equipment Imported between the "Issued" and "Expire" dates. If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the
<b>V</b>	client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd

#### **Responsible Testing Officer:**

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#### D Maree Technical Specialist EXPLOLABS EXPLOSION PREVENTION SERVICES

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