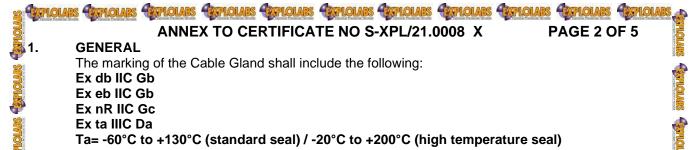
Rec	Explosion Preve	07	Tel: +2 Fax: +2 E-mail: <u>admin-mgr@</u>	Rd / PO Box 467 Olifantsfontein 1665 27 (11) 316 4601 27 (11) 316 5670 explolabs.co.za
IN		OVERNMENT APPROVED TEST I		RATUS"
		IA CERTIFICATE	Data laguadu	20 Jan 2024
			Date Issued: *Expiry date:	26 Jan 2021 26 Jan 2024 Page 1 of 5
Fx – Tvn	e Examinatio	n Certificate		Issue: 0
Certificate		S-XPL/21.0008 X		
Equipment		Cable Gland		
Model / Ty Applicant:	pe:	Types A** CMP Products Limited		
		Glasshouse Street		
		St Peters		
		Newcastle Upon Tyne		
		NE6 1BS		
Manufactu	rer:	United Kingdom CMP Products Limited		
Serial No:		All serial numbers imported betwee	en issued- and expire date	e and all serial
		numbers covered by a valid report of	or acceptable product certif	ication mark.
		Supplied by		
		CMP Products Limited	l	
		Identified by Inspection Authority S-XPL/21.0008 X		
		<pre>kplolabs file number XPL/21804/21.00(<u>Rating)</u>, having been examined and i</pre>		
	ts of South Afric			
SANS 60079-	0: 2019 Ed 6			
IEC 60079-0:	2017 Ed 7	Explosive atmospheres Part 0: Equipment —	- General requirements	
SANS 60079-	1: 2015 Ed 5	Explosive atmospheres Part 1: Equipment pr	rataction by flamonroof analogura	e "d"
IEC 60079-1:	2014 Ed 7	Explosive atmospheres Part 1. Equipment pi		s u
SANS 60079-7: 2019 Ed 4		Explosive atmospheres Part 7: Equipment pr	rotaction by increased actaty "a"	
IEC 60079-7:	2015 Ed 5	Explosive atmospheres Part 7. Equipment pi	Increased safety e	
SANS 60079-	15: 2010 Ed 4		and a diama have been a formation that the second	**
IEC 60079-15	: 2010 Ed 4	Explosive atmospheres Part 15: Equipment	protection by type of protection "n	
SANS 60079-	31: 2014 Ed 2		denot foundation of the first of	
IEC 60079-31		Explosive atmospheres Part 31: Equipment of	aust ignition protection by enclosu	ire "t"
Risk of ignit	ion provided:		1	
	Equipment Protection	Performance of		T class or Max
Protection	Level (EPL)	protection	Conditions of operation	Surface Temp (°C)
Protection afforded	Group	Suitable for normal operation and frequently	Equipment remains	
afforded	Gh	occurring disturbances or equipment where	functioning in zones 1 and 2	150ºC
	Gb Group II		-	
afforded High	Group II	faults are normally taken into account	Equipment remains	
afforded			Equipment remains functioning in zone 2	150°C
afforded High	Group II Gc	faults are normally taken into account		150ºC 150ºC



A2F Range

The A2F Range of Cable Glands are metallic and are intended to terminate circular braided or unarmoured cables into a threaded entry point within enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component and a seal actuation nut. The front entry component, fitted with an elastomeric displacement sealing ring, and nylon 6 stepped skid washer, is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath.

A2E Range

The A2E Range of Cable Glands are identical to the A2F Range, except the entry thread engagement lengths are minimised.

A2FRC Range

he A2FRC Range of Cable Glands are intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component, a seal actuation nut and either an outer captivated or running coupling. The front entry component, fitted with an elastomeric displacement sealing ring, is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath. The outer running coupling is retained in the seal actuation nut using the carbon steel 'C' clip, or a similar arrangement to allow free running thread connection to conduit.

A2F-FC Range

The A2F-FC Range of Cable Glands are intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They also provide an anchor for a flexible metallic conduit which can protect the cable from damage. They consist of a male-threaded front entry component, a seal actuation nut and a conduit anchor element that screws into the inside of the conduit. The front entry component, fitted with an elastomeric displacement sealing ring, is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath. The conduit anchor is secured between the seal actuation nut and seal to form a skid washer

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A2F-HC Range

The A2F-HC Range of Cable Glands are intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with the relevant codes of practice. They also provide an anchor for a flexible hose which can protect the cable from damage. They consist of a male-threaded front entry component, a seal actuation nut with a hose anchor to which a hose can be attached using a jubilee clip or similar. The front entry component, fitted with an elastomeric displacement sealing ring and skid washer, is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath.

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A2F-FF Range

The A2F-FF Range of Cable Glands are intended to terminate flat braided or unarmoured cables into a threaded entry point within enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component and a seal actuation nut. The front entry component fitted with an elastomeric displacement sealing ling, and nylon 6 stepped skid washer, is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath.

A2E-FF Range

The A2E-FF Range of Cable Glands are identical to the A2F-FF Range, except the entry thread engagement lengths are minimised.

A2FRC-FF

The A2FRC-FF Range of Cable Glands are identical to the A2FRC Range, except the seal is intended for use with flat cable.

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. 25RA2F.

Materials of manufacture:

The Cable Glands Type A^{**} are manufactured in brass, aluminium, mild steel and stainless steel. All brass manufactured parts can be optionally nickel plated. All mild steel manufactured parts can be optionally zinc plated.

Examples of alternative entry component thread forms:

ET (Conduit) PG BSPP BSPT ISO NPT NPSM

Metric entry threads of all model series to be manufactured with a pitch between 0.7mm and 2.0mm, with 1.5mm as standard.

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

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Alternative 'C' clip plate finish (where applicable):

•Stainless steel

•Phosphor bronze

Beryllium copper

The option to fit a flat blanking disc between the seal and the skid washer to maintain a minimum IP66 ingress protection. The disc to be marked 'Ex eb only' to indicate that the gland is not suitable for use in flameproof applications when it is fitted.

Type designation:

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

Gland Size	Entry Thread	Cable sheath $oldsymbol{arDelta}$	
		Min.	Max.
16	M16 x1.5	3.2	8.7
20s16	M20 x1.5	3.2	8.7
20s	M20 x1.5	6.1	11.7
20	M20 x1.5	6.5	14.0
25	M25 x1.5	11.1	20.0
32	M32 x1.5	17.0	26.3
40	M40 x1.5	23.5	32.2
50s	M50 x1.5	31.0	38.2
50	M50 x1.5	35.6	44.1
63s	M63 x1.5	41.5	50.0
63	M63 x1.5	47.2	56.0
75s	M75 x1.5	54.0	62.0
75	M75 x1.5	61.1	68.0
90	M90 x2.0	66.6	80.0
100	M100 x 2.0	76.0	91.0
115	M115 x 2.0	86.0	98.0
130	M130 x 2.0	97.0	115.0

A2E-FF,A2F-FF and A2FRC-FF in these sizes only

Gland	Entry	Cable sheath range ${\cal O}$ (mm)	
size	thread	Min.	Max.
20s	M20 x1.5	4.0 x 6.2	6.8 x 11.7
20	M20 x1.5	5.7 x 8.0	8.7 x 13.5

Based on the following documentation: IECEx CML 18.0179X. Issue 1.

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 cable glands shall only be used where the temperature, at the point of entry, is in the following ranges:

Outer sheath seal material	Temperature range	Color I.D	
EPDM 70 (5079B115)	-60°C to +130°C	Black	
FKM (9079B0662)	-20°C to +200°C	Red (muddybrown)	

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No.	ANNEX TO CERTIFICATE NO S-XPL/21.0008 X PAGE 5 OF 5 iii. For flameproof applications, cable gland typesCA2F, CA2F-RC, CA2F-FC, CA2F-HC and CA2F-FF are to be installed in associated Ex db equipment having a minimum wall
	thickness as follows: •10.5mm minimum for cable gland having entry thread sizes M16x1.5 to M75x1.5 •12.5mm minimum for cable gland having entry thread sizes M90x2.0 to M115x2.0
4.	SCHEDULE OF LIMITATIONS (denoted by "U" after certificate number) None.
5.	CONDITIONS OF CERTIFICATION All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.
STOLE, ST	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 Model/Type : Types A** Serial No. : Ex Rating : Ex db IIC Gb Ex nR IIC Gc Ex nR IIC Gc Ex ta IIIC Da IIIC Gc
A CONTRACTOR	Ta= -60°C to +130°C (standard seal) / -20°C to +200°C (high temperature seal)
	ication 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 paratus is used as relevant in accordance with: 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 Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety Act; 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 client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd
www.	Responsible Testing Officer:
PPIOLAS APPIOLAS APPIOLAS APPIOLAS APPIOLAS	M Lategan Testing Officer EXPLOLABS EXPLOSION PREVENTION SERVICES This report/certificate shall not be reproduced except in full without the written approval of the company Explolabs (Pty) Ltd shall not be liable for any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us. This disclaimer is immutable and automatically incorporated in any contract undertaken by us; notwithstanding anything to the contrary, save for the express written waiver of our managing director. By marking the equipment in accordance with the documentation/standard, the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd
ANS (STRIOLARS	
	DOCUMENT No: XPL0213 RELEASE DATE: 29/05/2018 REV : 7