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NOT STATOL		PLO Explosion Preve	LADS	(Pty)	l td		Те	el: +27 (11) 3	tsfontein 1665 316 4601		
TOLIC	Rea	No: 1999/027771/0		(1 (y)			E-mail: <u>admin-n</u>	x: +27 (11) 3 ngr@explola	<u>bs.co.za</u>		
STOLAS	IN	GOVERNMENT APPROVED TEST LABORATORY IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"									
ð	IA CERTIFICATE Date Issued: 26 Jan 2021										
MOINT							*Expiry date:	26 Ja Pag	an 2024 e 1 of 5 ssue: 0		
NAS	Ex – Type	e Examinatio	n Certificate		-			-			
STHOLAS	Certificate Equipment		Cable Glar	MS-XPL/21.0010 X Cable Gland							
8	Model / Tyj Applicant:	pe:	E** CMP Produ								
STIOLAS	, applicant.		Glasshous						Samonar		
7			St Peters	St Peters Newcastle Upon Tyne NE6 1BS							
MOI			NE6 1BS	opon	i yne						
()	Manufactu	rer:	United Kingdom CMP Products Limited All serial numbers imported between issued- and expire date and all serial								
STHOLAS	Serial No:										
			numbers co		-	-	acceptable product c	ertification	mark.		
NON				CMP P	Supplied b Products I	imited					
P	Identified by Inspection Authority number										
IOIN	And as described in the Explolabs file number XPL/21804/21.0010 is hereby certified "Explosion Protected										
		ause 1, for Ex s of South Afric		ng beer	n examine	d and in	spected in accordance	ce with the	relevant		
SIM S	SANS 60079-0										
	IEC 60079-0: 2	2017 Ed 7	Explosive atm	ospheres	Part 0: Equi	pment — (General requirements				
IOLANS	SANS 60079-1 IEC 60079-1: 2		Explosive atmospheres Part 0: Equipment — General requirements Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"								
	SANS 60079-7 IEC 60079-7: 2		Explosive atmospheres Part 7: Equipment protection by increased safety "e"								
S - S - S - S	SANS 60079-1 IEC 60079-15:		Explosive atmospheres Part 15: Equipment protection by type of protection "n"								
	SANS 60079-31: 2014 Ed 2 EC 60079-31: 2013 Ed 2										
8	Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t" IEC 60079-31: 2013 Ed 2 Risk of ignition provided: Equipment										
SMOUNT	Protection afforded	Protection Level (EPL) Group	Pe	erforman protecti			Conditions of operation	n Su Ten	s or Max Irface np (°C)		
SMOINE	High	Mb Group I	•	rating cor	nditions		Equipment de-energized when explosive atmosphe present		50°C		
	High	Gb Group II	Suitable for norr occurring distur faults are no	bances o	r equipment	where	Equipment remains functioning in zones 1 and	12	50°C 50°C		
STOL ST	Enhanced	Gc Group II	Suitable	for norm	al operation		Equipment remains functioning in zone 2	1	50°C		
STORY ST	Very high	Da Group III	Two independen even when two f		ur independe		Equipment remains functioning in zones 20, 2 and 22	21 1			
				Г			13 RELEASE DATE: 20/0	15/2010			

The E^{**} series Type ranges of cable glands consist of a male-threaded front entry component containing an elastomeric sealing ring and a Nylon 6 skid washer which effect flameproof sealing onto the cable inner sheath and is intended to screw into an entry point of its associated enclosure in accordance with relevant codes of practice. The flameproof seal is actuated by an adjoining coupling component. The coupling component is attached to a main body. Their mating thread may be fitted with an optional 'O' ring seal to provide increased ingress protection. Clamping of the armoured or braided cable is affected by a combination of the coupling 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 option for metric threaded cable entry spigots of all cable gland model series to be manufactured with a thread pitch between 0.7mm and 2.0mm.
- 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. 25RE1FW.
- Materials of manufacture: Brass to EN12168:1998 Grade CuZn39Pb (CW614N) Mild steel to BS EN 10088-3:2005 Grade 220M07Pb Stainless steel to BS EN 10088-3:2005 Grade 316S11, 316S13, 316S31 or 316S33 Aluminium alloy not inferior to grade 6082 to EN755,1-3:1996 or LM25 to BS EN 1676:2010 (Not Group I)
 - Alternative entry component thread forms: Metric ISO 965-1, ISO965-3 medium fit (6g) for external threads ET(Conduit) BS 31:1940 (1979), Table A PG DIN 40430:1971 BSPP BS 2779:1973 class A full form for external threads BSPT BS 21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A ISO ISO 7/1:1982, gauging to ISO 7/2 clause 6.3 for external threads NPT ANSI/ASME B1.20.1-1983 gauging to clause 8.1 for external threads NPSM ANSI/ASME B1.20.1-1983 gauging to clause 9 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 specified by the cable gland type designation.
- The various arrangements vary the cable gland suitability for differing armour or braided type cables.
- 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 metallic continuity diaphragm component specified by the cable gland type designation for use when terminating lead sheathed cables.

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-	use with variab	earthing device ole speed drive								nation
•	Alternative ma	terial of manuf	acture o	of the fei	rule to b	e the s	ame as	the glar	nd mater	ial.
•	The use of sea	als suitable for	flat form	n cables						
•	The use of an	O ring seal be	tween th	ne body	and the	entry it	em to pr	ovide a	deluge	seal.
•	Alternative out	-			-					
•	The option to minimum IP66 suitable for Ex	rating. The d d applications	isc is to when t	be mai he disc i	'ked 'Ex s fitted.	e only	to india	cate tha	t the gla	
The gla Gland Size	nd and seal siz	es are determ		the entr	y thread			je take s		r seal
		"B" version	sheath	n range mm)	strip ar pliable armour braid	mour, wire &wire	-	im)	sheath	
16	M16 x 1 5		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16 20S/16	M16 x 1.5 M20 x 1.5	- M25 x 1.5	3.1 3.1	8.6 8.6	0	0.8	0.8 0.8	1.25 1.25	6.1 6.1	13.2 13.2
20S16/20S	M20 x 1.5	M25 x 1.5	3.1	8.6	0	0.8	0.8	1.25	9.5	15.9
20S	M20 x 1.5	M25 x 1.5	6.1	11.6	0	0.8	0.8	1.25	9.5	15.9
20S/20	M20 x 1.5	M25 x 1.5	6.1	11.6	0	0.8	0.8	1.25	12.5	20.9
20 20/25S	M20 x 1.5	M25 x 1.5 M25 x 1.5	6.5	13.9	0	0.8	0.8	1.25	12.5	20.9 22.0
20/255	M20 x 1.5 M20 x 1.5	M25 x 1.5	6.5 6.5	13.9 13.9	0	<u>1.1</u> 1.1	1.25 1.25	1.6 1.6	14.0 18.2	22.0
25S	M25 x 1.5	M32 x 1.5	11.1	19.9	0	1.1	1.25	1.6	14.0	22.0
25	M25 x 1.5	M32 x 1.5	11.1	19.9	0	1.1	1.25	1.6	18.2	26.2
25/32	M25 x 1.5	M32 x 1.5	11.1	19.9	0	1.2	1.6	2.0	23.7	33.9
32	M32 x 1.5	M40 x 1.5	17.0	26.2	0	1.2	1.6	2.0	23.7	33.9
32/40	M32 x 1.5	M40 x 1.5	17.0	26.2	0	1.2	1.6	2.0	27.9	40.4
40 40/50S	M40 x 1.5 M40 x 1.5	M50 x 1.5 M50 x 1.5	22.0 22.0	32.1 32.1	0	1.2 1.5	1.6 2.0	2.0 2.5	27.9 35.2	40.4 46.7
50S	M40 x 1.5	M63 x 1.5	22.0	38.1	0	1.5	2.0	2.5	35.2	46.7
50S/50	M50 x 1.5	M63 x 1.5	29.5	38.1	0	1.5	2.0	2.5	40.4	53.1
50	M50 x 1.5	M63 x 1.5	35.6	44.0	0	1.5	2.0	2.5	40.4	53.1
50/63S	M50 x 1.5	M63 x 1.5	35.6	44.0	0	1.5	2.0	2.5	45.6	59.4
63S	M63 x 1.5	M75 x 1.5	40.1	49.9	0	1.5	2.0	2.5	45.6	59.4
63S/63 63	M63 x 1.5 M63 x 1.5	M75 x 1.5 M75 x 1.5	40.1 47.2	49.9 55.9	0	1.5 1.5	2.0 2.0	2.5 2.5	54.6 54.6	65.6 65.9
63/75S	M63 x 1.5	M75 x 1.5	47.2	55.9	0	1.5	2.0	2.5	54.0 59.0	72.1
75S	M75 x 1.5	M90 x 2.0	52.8	61.9	0	1.5	2.0	2.5	59.0	72.1
75S/75	M75 x 1.5	M90 x 2.0	52.8	61.9	0	1.5	2.5	3.0	66.7	78.5
75	M75 x 1.5	M90 x 2.0	59.1	67.9	0	1.5	2.5	3.0	66.7	78.5
75/90	M75 x 1.5	M90 x 2.0	59.1	67.9	0	1.6	3.0	3.5	76.2	90.4
90 90/100	M90 x 2.0 M90 x 2.0	M100 x 2.0 M100 x 2.0	66.6 66.6	79.9 79.9	0	<u>1.6</u> 1.6	3.0 3.15	3.5 4.0	76.2 86.1	90.4 101.5
100	M100 x 2.0	M115 x 2.0	76.0	90.9	0	1.6	3.15	4.0	86.1	101.5
100/115	M100 x 2.0	M115 x 2.0	76.0	90.9	0	1.6	3.15	4.0	101.5	110.3
115	M115 x 2.0	M130 x 2.0	86.0	97.9	0	1.6	3.15	4.0	101.5	110.3
115/130	M115 x 2.0	M130 x 2.0	86.0	97.9	0	1.6	3.15	4.0 4.0	110.2	123.3
130	M130 x 2.0	N/A	97.0	114.9	0	1.6	3.15	4.0	110.2	123.3
	n these sizes or									
Gland		Entry	Cable						seal	
size	thread	thread 'B'		th range				ge (mm		
		version	Mi		Max.		Min	Max		
20s	M20 x1.5	M25 x1.5	4.0 x		5.8 x 11.7		x 7.8	6.8 x 1		
20	M20 x1.5	M25 x1.5	5.7 x	8.0 8	8.7 x 13.5	5 4.4	x 10.9	8.7 x 1	6.0	

E*-FF in these sizes only:

Gland size	Entry thread	Entry thread 'B'	Cable in sheath ran	ner seal ge (mm)	Cable or sheath ran	uter seal ge (mm)	
		version	Min.	Max.	Min	Max	
20s	M20 x1.5	M25 x1.5	4.0 x 6.2	6.8 x 11.7	4.4 x 7.8	6.8 x 11.7	
20	M20 x1.5	M25 x1.5	5.7 x 8.0	8.7 x 13.5	4.4 x 10.9	8.7 x 16.0	

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Plolars Beplolars Beplolars Beplolars Beplolars Beplolars B PAGE 4 OF 5 ANNEX TO CERTIFICATE NO MS-XPL/21.0010 X Type designation code: F F D = Fitted with Deluge seal Fitted with the alternative cast integral earth lug C = entry component. VAR = Fitted with an additional metallic continuity device for use with variable speed drive (VSD) / variable frequency drive (VFD) cables. FF =

W =

X =

U =

VAR =

2 =

Fitted with seals suitable for flat form cables Fitted with single plain armour cone & reversible armour sleeve to suit SWA cables.

Fitted with single grooved armour cone & reversible armour sleeve to suit SWA, STA, strip armoured, pliable wire armoured and braided cables.

Fitted with reversible armour cone & reversible armour sleeve to suit SWA, STA, strip armoured, pliable wire armoured and braided cables.

N.S.

Optional construction where the cone and sleeve assembly is replaced by a metallic continuity device for use with variable speed drive (VSD) / variable frequency drive (VFD) cables.

Standard circular armoured and braided cables.

Fitted with additional metallic continuity diaphragm for the use with inner lead sheathed SWA, strip armoured and braided cables.

Based on the following documentation: IECEx CML 18.0181X. 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. The E**-Type cable glands shall not be used to terminate on braided cables in group I applications.
- 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 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.
- iv. When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent twisting and pulling.

SCHEDULE OF LIMITATIONS (denoted by "U" after certificate number) None.

CONDITIONS OF CERTIFICATION

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

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ANNEX TO CERTIFICATE NO MS-XPL/21.0010 X PAGE 5 OF 5							
<u>a</u> 6.	MARKING						
2		similar) information have to be clearly and permanently marked on all units:					
M	Supplier	: CMP Products Limited					
	Manufacturer	: CMP Products Limited					
*	Equipment	: Cable Gland					
	Model/Type	: E**					
9	Serial No.	_: 5					
.	Ex Rating	: Ex db I Mb					
8		Ex eb I Mb					
OIN		Ex db IIC Gb					
<u>s</u>		Ex eb IIC Gb					
V		Ex nR IIC Gc					
		Ex ta IIIC Da					
9	IA Cortificate No	Ta= -60°C to +130°C (standard seal) / -20°C to +200°C (high temperature seal)					
.	IA Certificate No	: MS-XPL/21.0010 X					
This certi	ification indicates complianc	e with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided 撑					
	pparatus is used as relevar	nt in accordance with:					
i i)	Any conditions mentioned	NS 61241-14 requirements as applicable; din the above report:					
🖤 iii)		ts and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act;					

iv)

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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. 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.

Responsible Testing Officer:

M Lategan **Testing Officer** EXPLOLABS EXPLOSION PREVENTION SERVICES

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