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ALS FEFICIALS		PLO	Intion Services (Pty) Ltd	Tel: +2	Rd / PO Box 467 Olifantsfontein 1665 27 (11) 316 4601				
PIOL	Reg	Explosion Prevention No: 1999/027771/0	()	Fax: +2 E-mail: <u>admin-mgr@</u>	27 (11) 316 5670 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
GERIOLAIS GERIOI			OVERNMENT APPROVED TEST	-					
NIO	IN		108: "REGULATORY REQUIREMENTS FOR E		ATUS"				
			IA CERTIFICATE						
FERIOLASS	We have a memory and a memory of the second s			Date Issued: *Expiry date:	19 Mar 2024 26 Jan 2027 Page 1 of 6 Issue: 2				
FERIOLASS FERIOLASS	Ex – Type Certificate N Equipment:		MS-XPL/21.0011 X Cable Gland						
VIS	Model / Typ Applicant:	e:	Triton T3** and TE** CMP Products Limited						
10L			Glasshouse Street						
	P		St Peters						
NIO			Newcastle Upon Tyne NE6 1BS						
			United Kingdom		22 •				
SUM	Manufactur	er:	CMP Products Limited						
PERIOLARS	Serial No:		All serial numbers imported betwe numbers covered by a valid report						
7	ł		Supplied by						
NOI			CMP Products Limited						
			Identified by Inspection Authorit MS-XPL/21.0011 X	y number					
SUMS	And as doso	ribod in the Ev	plolabs file number XPL/21804/21.00	11 is baraby cartified "Eval	osion Protected				
apple	(Refer to cla	use 1, for Ex I	Rating)", having been examined and						
8	•	s of South Africa	an Standards.						
PIOL	SANS 60079	9-0: 2019 Ed 6	Explosive atmospheres Part 0: Eq	uipment — General require	ments				
P		9-1: 2017 Ed 7	Explosive atmospheres Part 1:	Equipment protection b	y flameproof				
OIM	IEC 60079-1		enclosures "d" Explosive atmospheres Part 7: Equipment protection by increased safety						
	5	9-7: 2023 Ed 4. ': 2017 Ed 5.1	Explosive atmospheres Part 7: Equipment protection by increased safety "e"						
SIN	SANS 60079	9-15: 2022 Ed 🗄		quipment protection by type	e of protection				
OLL	1	5: 2017 Ed 5	"n" Evelocito etrecenheres Dert 24.	Fouriement duct ionition					
4		9-31: 2014 Ed 2 31: 2013 Ed 2	2 Explosive atmospheres Part 31: enclosure "t"	Equipment dust ignition	protection by				
APIOIDE		n provided:			8				
PERIOLARS PER		Equipment Protection Level (EPL) Group	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)				
- Star		Mb	Suitable for normal	Equipment de-energized	Not Applicable				
	riigii	Group I	operation and severe operating conditions	when explosive atmosphere present	Not Applicable				
LADS CARPOLARS		Gb Group II	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains functioning in zones 1 and 2	Not Applicable				
ETHOLAS	Enhanced	Gc Group II	Suitable for normal operation	Equipment remains functioning in zone 2	Not Applicable				
PIOLARS		Da Group III	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains functioning in zones 20, 21 and 22	Not Applicable				
- De	2								

ALC: N

The Triton T3CDS series is a range of displacement type cable glands, each comprises of a hollow threaded entry component containing an elastomeric compensating displacement seal (CDS) system with associated ferrule, a skid washer, flameproof sealing ring with compensator, a reversible clamping sleeve and armour cone are provided for termination of various armour types. The flameproof sealing assembly is actuated by an inner seal nut. The entry component is fitted with an O-ring seal to provide increased ingress and deluge protection. Clamping of the armoured or braided cable is affected by a combination of the 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. The glands are intended for use with appropriately sized SWA, P.W.A., strip armoured, tape armoured or braided cables. The design is such that a constant pressure is maintained on the displacement seal by the use of the compensation ferrule.

SUNDILLE SUNDILLE

T3CDS series suffixed 'R' or alternatively named TE1FU series – Identical to the above but incorporating an external shorter gland body to provide a reduced overall length.

T3CDS/PB - Identical to the T3CDS Type but incorporating a continuity washer and are suitable for use with lead sheathed cables.

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. 25RT3CDS

Materials of manufacture:

ndard material supplied is:	The standard	
iuaru matenai supplieu is.	The stanuard	

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

Alternate	materials	are:
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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 Not for use with Group I mining Aluminium will contain less than 6% magnesium							

Alternative entry component thread forms:

BRIOMS BRIOMS BRIOMS BRIOMS BRIOMS

Alternative entry bomponent thread forms.							
ISO 965-1, ISO 965-3 medium fit (6g) for external threads							
BS31:1940 (1979), Table A							
DIN 40430:1971							
BS2779:1986 class A full form for external threads							
BS21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A							
ISO 7/1:1994, gauging to ISO 7/2 clause 6.3 for external threads							
ANSI/ASME B1.20.1-2013 gauging to clause 3.2 for external threads							
ANSI/ASME B1.20.1-2013 gauging to clause 3.2 for external threads							

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

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RELEASE DATE: 29/05/2018

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The option to have an alternative entry component profile that incorporates an earth lug.

Single or double-sided cone with an identically dimensioned plain taper each side for SWA type cables.

Single or double-sided cone with an identically dimensioned grooved taper each side for SWA P.W.A., strip armoured, tape armoured or braided type cables.

Cable glands may be fitted with armour cones with alternative diameters to allow the clamping of smaller or larger armour wires and braided cables.

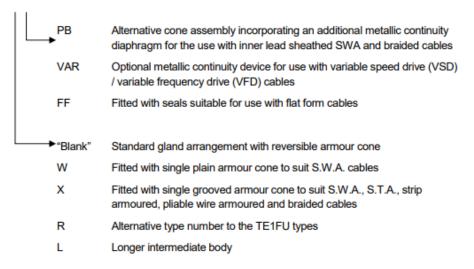
The use of seals suitable for flat form cables.

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

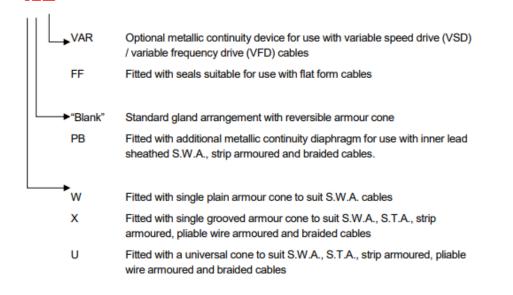
The option to fit a blanking disc between the outer seal and the main body to maintain a minimum IP66 rating. The disc is to be marked 'Ex e only' to indicate that the gland is not suitable for Ex d applications when the disc is fitted.

Type designation:





TE 1 F * ** ***



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Gland Size	Entry	sizes are dete	Inner	^r Seal	SWA	, STA,	SV	VA	Oute	r seal
	Thread	Thread "B" version		n range mm)	arm pliabl arm &wire	rip our, e wire our braid m)	(m	im)	sheath Ø (r	n range nm)
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16	M16 x1.5		3.1	8.7	0	0.8	0.8	1.25	6.1	13.2
20S16	M20 x1.5	M25 x1.5	3.1	8.7	0	0.8	0.8	1.25	6.1	13.2
20S16/20S	M20 x1.5	M25 x1.5	3.1	8.7	0	0.8	0.8	1.25	9.5	15.9
20S	M20 x1.5	M25 x1.5	6.1	11.7	0	0.8	0.8	1.25	9.5	15.9
20	M20 x1.5	M25 x1.5	6.5	14.0	0	0.8	0.8	1.25	12.5	20.9
25S	M25 x1.5	M32 x1.5	11.1	20.0	0	1.1	1.25	1.6	14.0	22.0
25	M25 x1.5	M32 x1.5	11.1	20.0	0	1.1	1.25	1.6	18.2	26.2
32	M32 x1.5	M40 x1.5	17.0	26.3	0	1.2	1.6	2.0	23.7	33.9
40	M40 x1.5	M50 x1.5	22.0	32.2	0	1.2	1.6	2.0	27.9	40.4
50S	M50 x1.5	M63 x1.5	29.5	38.2	0	1.5	2.0	2.5	35.2	46.7
50	M50 x1.5	M63 x1.5	35.6	44.1	0	1.5	2.0	2.5	40.4	53.1
63S	M63 x1.5	M75 x1.5	40.1	50.0	0	1.5	2.0	2.5	45.6	59.4
63	M63 x1.5	M75 x1.5	47.2	56.0	0	1.5	2.0	2.5	54.6	65.9
75S	M75 x1.5	M90 x2.0	52.8	62.0	0	1.5	2.5	3.0	59.0	72.1
75	M75 x1.5	M90 x2.0	59.1	68.0	0	1.6	2.5	3.0	66.7	78.5
90	M90 x2.0	M100 x 2.0	66.6	80.0	0	1.6	3.15	4.0	76.2	90.4
100	M100 x 2.0	M115 x 2.0	76.0	91.0	0	1.6	3.15	4.0	86.1	101. 5
115	M115 x 2.0	M130 x 2.0	86.0	98.0	0	1.6	3.15	4.0	101. 5	110. 3
130	M130 x		97.0	115.	0	1.6	3.15	4.0	110.	123.
	2.0			0					2	3

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T3 series suffixed 'FF' or TE series suffixed 'FF' in these sizes only.

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Gland size	Entry thread	Entry thread 'B'	Cable inner seal sheath range (mm)		Cable ou 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

T3CDSL series which includes the longer intermediate body are determined by the entry thread and cable range-take sizes:

Gland size	Entry thread	Entry thread 'B' version	Inner seal sheath range Ø (mm)		strip a pliabl armou	, STA, rmour, e wire r &wire (mm)	SWA	(mm)	sheath	r seal n range mm)
			Min.	Max	Min	Max	Min	Max	Min	Max
63	M63x1.5		47.2	56.0	0	1.5	2.0	2.5	54.6	65.9

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Notes:

•Sira 13ATEX1073X, Sira 13ATEX4079X and IECEx SIR 13.0028X is superseded by this certificate. •The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 13ATEX1073X, Sira 13ATEX4079X and IECEx SIR 13.0028X.

•Where Sira 13ATEX1073X, Sira13ATEX4079X and/or IECEx SIR 13.0028X 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 18.0183X. 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.
- iii. When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent pulling or twisting.
- iv. The T3** and TE** Type cable glands shall not be used to terminate on braided cables in Group I applications.

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.

2.

3.

8	BPLOIARS BPLOURS BPLOU	us Arnours Arnours Arnours Arnours Arnours Arnours Arnours Arnours	
NOL	ANN	EX TO CERTIFICATE NO MS-XPL/21.0011 X PAGE 6 OF 6	10 IAN
ø	6. MARKING		2.0
2		similar) information have to be clearly and permanently marked on all units:	
ğ	Supplier	: CMP Products Limited	5
8	Manufacturer	: CMP Products Limited	Pin S
8	Equipment	: Cable Gland	
S	Model/Type	: Triton T3** and TE**	A PIC
Ž	Serial No.	·	
P	Ex Rating	: Ex db I Mb	6
3	<u>La ricaning</u>	Ex eb I Mb	1.4
ğ		Ex db IIC Gb	6
8		Ex eb IIC Gb	2
2	l l	Ex nR IIC Gc	
		Ex ta IIIC Da	6
J.		Ta= -60°C to +130°C (standard seal) / -20°C to +200°C (high temperature seal)	
P	IA Certificate No	: MS-XPL/21.0011 X	
3			The base
3		with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided	
8	that the apparatus is used as relevant i) SANS 10086 and IEC/SA	t in accordance with: INS 61241-14 requirements as applicable;	6
9 1	ii) Any conditions mentioned	in the above report;	
3	iii) Any relevant requirements and	s and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act;	6
2		itions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health	200
P	and Safety.	ces all previous version of the certificate.	
1	,	ces an previous version of the certificate.	2

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:

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

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