



Explosion Prevention Services

(Pty) Ltd

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GOVERNMENT APPROVED TEST LABORATORY

IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

Date Issued: 09 Sep 2022
*Expiry date: 09 Sep 2032
Page 1 of 3
Issue No.: 0

Ex - Type Examination Certificate

Certificate Number: S-XPL/22.0997 X
Equipment: Enviro Compression Gland Green
Model / Type: 00, 0s, 0, 1, 2, 3, 4, 5, 6, 7
Applicant: Pratley Manufacturing (Pty) Ltd
PO Box 3055
Kenmare
1745

Manufacturer: Pratley Manufacturing (Pty) Ltd
Serial No: All serial numbers of equipment covered by a valid report or acceptable product certification mark.

Supplied by
Pratley Manufacturing (Pty) Ltd
Identified by Inspection Authority number
S-XPL/22.0997 X

And as described in the Explolabs file number XPL/22855/22.0997 Issue 0 is hereby certified "Explosion Protected (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of South African Standards.

- SANS 60079-0: 2019 Ed 6 Explosive atmospheres Part 0: Equipment — General requirements
IEC 60079-0: 2017 Ed 7
SANS 60079-7: 2019 Ed 4 Explosive atmospheres Part 7: Equipment protection by increased safety "e"
IEC 60079-7:2015 Ed 5
SANS 60079-15: 2010 Ed 4 Explosive atmospheres Part 15: Equipment protection by type of protection "n"
IEC 60079-15: 2010 Ed 4
SANS 60079-31: 2014 Ed 2 Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-31: 2013 Ed 2
SANS 60529: 2013 Ed 1.2 Degrees of protection provided by enclosures (IP Code)
IEC 60529: 2013 Ed 2.2

Risk of ignition provided:



T0104

The South African National Accreditation System (SANAS) is a member of the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). This Arrangement allows for the mutual recognition of technical test and calibration data by the member accreditation bodies worldwide. For more information on the Arrangement please consult www.ilac.org

Table with 3 columns: DOCUMENT No: XPL0105, RELEASE DATE: 07/07/2021, REV: 7. Below the table is a disclaimer: This document is an Explolabs Controlled Document - Responsibility falls on Explolabs personnel to ensure correct version is applied as noted in the electronic system. This certificate shall not be reproduced except in full without the written approval of the company.



Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Group			
Very high	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	None specified
High	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	
Enhanced	Gc Group II	Suitable for normal operation	Equipment remains functioning in zone 2	

1. GENERAL

The marking of the Enviro Compression Gland Green shall include the following:

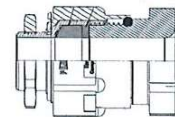
Ex eb IIC Gb

Ex ec IIC Gc

Ex nR IIC Gc

Ex ta IIIC Da (IP66/68 2m continuous)

The range of green enviro compression glands may be manufactured from Nickel plated brass and 304 or 316, stainless steel, and is designed to accommodate braided cable. The range consists of ten different size glands to accommodate a variety of uarmoured cable.



See table below for details on the thread dimensions and cable size of the complete range of glands

Size	Cable Size "D"		Thread				Install Torque	A/C	A/F	Max Protrusion Length "L"
	Min	Max	Thread Type "C"		Thread Length "A"					
			Metric	NPT	Metric	NPT				
00	3.0	8.5	M16	-	15.0	-	15	32	29.2	46
0s	3.0	8.5	M20	½" NPT	15.0	19.8	15	32	29.2	46
0	8.0	12.6	M20	½" NPT	15.0	19.8	19	32	29.2	51
1	11.5	15.7	M20	¾" NPT	15.0	20.1	25	37	32	51
2	15.7	20.4	M25	1" NPT	15.0	25	34	47.5	41.2	59
3	20.4	26.3	M32	-	15.0	-	50	57.5	50	66
4	26.3	34.7	M40	-	18.0	-	55	67.5	59	66
5	34.7	43.3	M50	-	19.0	-	105	87	77.5	102
6	43.3	55.9	M63	-	19.0	-	120	98.8	86	112
7	55.9	67.5	M75	-	25.0	-	145	108	97	132

2. 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.

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

- An IP rating of IP68 must be upheld after installation by ensuring that a nipple gasket is fitted.
- The location of installation shall be in the range of -20 °C to +95 °C
- Static Hazard, wipe with a damp cloth.

4. CONDITIONS OF CERTIFICATION

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

5. ROUTINE TEST

None.

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6. MARKING

The following (or similar) information have to be clearly and permanently marked on all units:

Manufacturer : Pratley Manufacturing (Pty) Ltd
 Equipment : Enviro Compression Gland Green
 Model/Type : 00, 0s, 0, 1, 2, 3, 4, 5, 6, 7
 Serial No. : ---
 Ex Rating : Ex eb IIC Gb
 Ex nR IIC Gc
 Ex ta IIIC Da (IP66/68 2m continuous)
 IA Certificate No : S-XPL/22.0997 X

This certification 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 that the apparatus is used as relevant in accordance with:

- i) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
- ii) Any conditions mentioned in the above report;
- iii) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- v) A revision certificate replaces all previous version of the certificate.
- vi) * - Only covers equipment Imported between the "Issued" and "Expire" dates.
- vii) 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

Compiled and Tested by:



D Maree
Technical Signatory
EXPLOLABS EXPLOSION PREVENTION SERVICES

Reviewed and Approved by:



M Lategan
Technical Specialist

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 manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of 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

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