EXPLOLABS
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GOVERNMENT APPROVED TEST LABORATORY

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

IA CERTIFICATE

Date Issued: **17 Jul 2018**
*Expiry date: **05 Jul 2028**

Issue: 3

Ex – Type Examination Certificate

Certificate Number:	**MS-XPL/18.0355 X**
Equipment:	**Flameproof Cable Glands**
Model / Type:	**Refer to certification schedule**
Applicant:	**Pratley Manufacturing and Engineering (Pty) Ltd** **14 Jackson Street** **Krugersdorp**
Manufacturer:	**Pratley Manufacturing and Engineering (Pty) Ltd**
Serial No:	All serial numbers of equipment covered by a valid report or acceptable product certification mark.

The unit(s) as described in Explolabs File Number **XPL/19447/18.0355** is hereby certified "Explosion Protected" **Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb and Ex ta IIIC Da IP68 (2m continuous),** having been tested, examined and inspected in accordance with the relevant requirements of South African Standards:

SANS 60079-0: 2012 Ed 5 **IEC 60079-0: 2011 Ed 6**	Explosive atmospheres Part 0: Equipment — General requirements
SANS 60079-1: 2015 Ed 5 **IEC 60079-1: 2014 Ed 7**	Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"
SANS 60079-7: 2007 Ed 3 **IEC 60079-7: 2006 Ed 4**	Explosive atmospheres Part 7: Equipment protection by increased safety "e"
SANS 60079-31: 2009 Ed 1 **IEC 60079-31: 2008 Ed 1**	Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"
SANS 808:2013 Ed 1.3	Cable glands for use on flameproof enclosures (Ex d)

Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL) Group	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
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	Not Applicable
High	Mb Group I	Suitable for normal operation and severe operating conditions	Equipment de-energized when explosive atmosphere present	
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	

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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

This report supersedes all previous documents bearing the reference no XPL/19447/18.0355 Issue 2.

1. DESCRIPTION OF EQUIPMENT

The cable glands were manufactured by Pratley Maunfacturing (Pty) Ltd and are certified for both surface and mining use.

The Model Codes are as follows:

- Gland for Armoured Cable Size: 0S, 0L, 1S, 1L, 2S, 2L, 3S, 3L, 4S, 4L, 5S, 5L, 6S and 6L
- Glands for Unarmoured Cable Size: 0S, 0L, 1, 2S, 2L, 3S, 3L, 4S, 4L, 5S, 5L, 6S and 6L
- Hoseback Compression Glands Size: 0S, 0L, 1, 2S, 2L, 3S, 3L, 4S, 4L, 5S, 5L, 6S and 6L

The glands consists of brass or 316/304 stainless steel components; a sealing washer, synthetic rubber sealing rings and (for armoured cable glands) a synthetic rubber shroud. The gland is intended to connect armoured or unarmoured cable to a certified Ex 'd' or 'e' enclosure to form an Ex 'd' or 'e' assembly.

2. SPECIAL CONDITIONS FOR SAFE USE *(denoted by X after certificate number)*

- An IP rating of IP68 must be upheld after installation.
- The temperature at the point of mounting shall be in the range -40ºC to +60ºC.

3. 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.

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	: Pratley Manufacturing and Engineering (Pty) Ltd
Manufacturer	: Pratley Manufacturing and Engineering (Pty) Ltd
Equipment	: Flameproof Cable Glands
Model/Type	: Refer to certification schedule
Serial No.	: ---
Ex Rating	: Ex d I/IIC Mb/Gb, Ex e I/IIC Mb/Gb and Ex ta IIIC Da IP68 (2m continuous)
IA Certificate No	: MS-XPL/18.0355 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

Responsible Testing Officer:

D. Maree
Senior Testing Officer

Reviewed by:

K. Malibe
Testing Officer

EXPLOLABS EXPLOSION PREVENTION SERVICES

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