

(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/22.0996 X

Equipment: Model / Type: Brass gland for SWA cable 00, 0s, 0, 1, 2, 3, 4, 5, 6, 7, 8

Applicant:

Pratley Manufacturing (Pty) Ltd

PO Box 3055 Kenmare 1745

Manufacturer:

Serial No:

Pratley Manufacturing (Pty) Ltd

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/22.0996 X

And as described in the Explolabs file number XPL/22855/22.0996 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 IEC 60079-0: 2017 Ed 7

Explosive atmospheres Part 0: Equipment — General requirements

SANS 60079-7: 2019 Ed 4 IEC 60079-7:2015 Ed 5

Explosive atmospheres Part 7: Equipment protection by increased safety "e"

SANS 60079-15: 2010 Ed 4

Explosive atmospheres Part 15: Equipment protection by type of protection

IEC 60079-15: 2010 Ed 4 SANS 60079-31: 2014 Ed 2

Explosive atmospheres Part 31: Equipment dust ignition protection by

IEC 60079-31: 2013 Ed 2 SANS 60529: 2013 Ed 1.2 IEC 60529: 2013 Ed 2.2

enclosure "t"

Degrees of protection provided by enclosures (IP Code)





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

T0104

DOCUMENT No: XPL0105

RELEASE DATE: 07/07/2021

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ANNEX TO CERTIFICATE NO S-XPL/22.0996 X

Azriouis Azriouis

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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	
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	None specified
Enhanced	Gc Group II	Suitable for normal operation	Equipment remains functioning in zone 2	

GENERAL

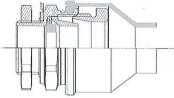
The marking of the Brass gland for SWA cable shall include the following:

Ex eb IIC Gb

Ex ec IIC Gc

Ex nR IIC Gc

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



The range of SWA glands may be manufactured from Nickel plated brass and 304 or 316, stainless steel, and is designed to accommodate armoured cables. The range, consists of eleven different size glands to accommodate a variety of cable diameters.

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

Size	Thread Metric	Cable Selection			Armour (SWA)		Install		**Thread		
		Bed. Min	Bed. Max	OD. Min	OD. Max	Min	Max	Torque [Nm]	Protrusion max (PL)	Length, min (TL)	OD max
00	M16	6.5	8.5	10.0	16.0	0.90	1.25	10	43.0	12.0	31.0
Os	M20	6.5	8.5	10.0	16.0	0.90	1.25	10	41.0	12.0	31.0
0	M20	8.5	12.6	12.6	18.6	0.90	1.25	10	55.0	12.0	30.2
1	M20	12.6	15.7	18.0	22.0	0.90	1.25	12	52.0	12.0	35.0
2	M25	15.7	20.4	22.0	27.2	1.25	1.60	14	54.0	13.0	44.0
3	M32	20.4	26.3	24.3	33.2	1.60	2.00	18	52.0	15.0	50.0
4	M40	26.3	34.7	35.0	43.2	1.60	2.00	24	62.0	18.0	63.5
5	M50	34.7	43.3	43.2	54.0	2.00	2.50	35	89.0	19.0	80.0
6	M63	43.3	55.8	54.0	67.1	2.50	3.00	45	94.0	19.0	96.0
7	M75	55.8	67.5	70.0	78.8	2.50	3.00	55	148.0	25.0	109.0
8	M82	67.5	73.8	75.6	83.8	3.00	3.50	75	150.0	25.0	109.0

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 +85 °C

4. 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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 5. **ROUTINE TEST**

None

6. MARKING

iv)

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

Apploins Apploins

Manufacturer

: Pratley Manufacturing (Pty) Ltd : Brass gland for SWA cable

Equipment Model/Type

: 00, 0s, 0, 1, 2, 3, 4, 5, 6, 7, 8

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/22.0996 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:

SANS 10086 and IEC/SANS 61241-14 requirements as applicable;

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;

Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health

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

Compiled and Tested by:

Reviewed and Approved by:

M Lategan

Technical Specialist

D Maree

Technical Signatory

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 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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