



Explosion Prevention Services

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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

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Issue No.: 0

#### Ex – Type Examination Certificate

Certificate Number: S-XPL/22.0996 X  
 Equipment: Brass gland for SWA cable  
 Model / Type: 00, 0s, 0, 1, 2, 3, 4, 5, 6, 7, 8  
 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/22.0996 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 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



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](http://www.ilac.org)

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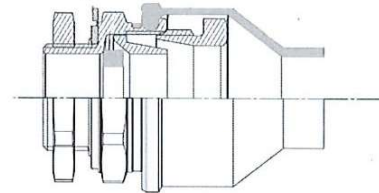
Risk of ignition provided:

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	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 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

Table 1

Size	Thread	Cable Selection				Armour (SWA)		Install Torque [Nm]	Protrusion max (PL)	**Thread Length, min (TL)	OD max
	Metric	Bed. Min	Bed. Max	OD. Min	OD. Max	Min	Max				
00	M16	6.5	8.5	10.0	16.0	0.90	1.25	10	43.0	12.0	31.0
0s	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

\*\*:- This is the minimum length, may also be longer per customer requirements.

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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