

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 Range of unarmoured cable glands shall include the following:

Ex eb IIC Gb

Ex nR IIC Gc

Ex ta IIIC Da (IP66/68 350m for 1min *)

VARIATION 1

Pratley requires the use of the nylon cup gasket

*

The IP rating applies to all ranges of glands except No 2 and No. 3 which is only rated for a depth of 200m continuous.

The range of compression glands may be manufactured from Nickel plated brass, 304 or 316, stainless steel and 6063/6082 Aluminium, and is designed to accommodate unarmoured cables. The range, consists of thirteen 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	Cable Range		Nipple thread
	Min	Max	Metric
00s	3.0	5.0	M16
00	4.5	9.2	M16
0xs	3.0	5.0	M20
0S	4.5	9.2	M20
0	8.0	11.1	M20
1	10.0	14.7	M20
2	14.0	19.9	M25
3	19.0	26.7	M32
4	26.0	35.0	M40
5	34.0	44.0	M50
6	43.4	55.8	M63
7	55.8	67.5	M75
8	67.5	73.8	M82

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 -35 °C to +120 °C
4. **SCHEDULE OF LIMITATIONS** (denoted by "U" after certificate number)
 None.
5. **CONDITIONS OF CERTIFICATION**
 All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.
6. **MARKING**
 The following (or similar) information have to be clearly and permanently marked on all units:
 Manufacturer : Prately Manufacturing (Pty) Ltd
 Equipment : Range of unarmoured cable glands
 Model/Type : 00s, 0xs, 00, 0s, 0, 1, 2, 3, 4, 5, 6, 7, 8
 Serial No. : ---
 Ex Rating : Ex eb IIC Gb (IP66/68 350m 1min)
 Ex nR IIC Gc
 Ex ta IIIC Da (IP66/68 350m 1min)
 IA Certificate No : S-XPL/20.0602 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

Tested by:



K Malibe
Technical Signatory
EXPLOLABS EXPLOSION PREVENTION SERVICES

Reviewed by:



M Lategan
Technical Specialist

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