

**APPROVED INSPECTION AUTHORITY**



IN TERMS OF REGULATIONS 21.17.2 OF THE MINERALS ACT  
(INCORPORATED IN THE MINE HEALTH AND SAFETY ACT No. 29 OF 1996  
AND REGULATION 8(2) OF THE ELECTRICAL MACHINERY REGULATIONS  
OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, No. 85 OF 1993

Pratley Manufacturing & Engineering (Pty) Ltd  
P O Box 3055  
**KRUGERSDORP**  
1745

**Expiry Date: June 2020**

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Date: June 2010

**IA CERTIFICATE: SABS S/10-366U  
INCREASED SAFETY (Ex e) COMPRESSION CONVERSION KITS**

- 1 **GENERAL.** The conversion kits were manufactured by Pratley Manufacturing & Engineering (Pty) Ltd, for use with their appropriate cable glands or junction boxes. They are for both surface and mining use, with Unarmoured Cables. They were intended to be used in the following areas:

Ex e II

Zones: 1, 2, 20, 21 and 22

The conversion kits consist of one or two rubber bushes with a slotted internal hole on one side and a round internal hole on the other side. These bushes are compressed between either two nickel plated brass washers, or between skid washer and gland body, with the aid of the compression nut being part of the cable gland or junction box.

The following conversion kits were tested:

**TABLE I**

DESCRIPTION	GLAND / JUNCTION BOX	SIZE
Pratley No. 0sxs Compression Conversion Kit for size No. 0s & 00	Pratley Brass Compression Gland for Ex e Apparatus	No. 0s & 00
Pratley No. 0xs Compression Conversion Kit for size No. 0	Pratley Brass Compression Gland	No. 0
Pratley No. 0sxs Compression Conversion Kit for size No. 0s	Pratley Ex e/d Enviro Compression Gland	No. 0s
Pratley No. 0xs Compression Conversion Kit for size No. 0 Ex e/n Ezee-fit Box	Pratley Ezee-Fit Cable Boxes Ex e/n	No. 0
Pratley No. 1RxS Compression Conversion Kit for size No. 1 Ezee-fit Box	Pratley Ezee-Fit Cable Boxes Ex e/n	No. 1
Pratley No. 0xs Compression Conversion Kit for size No. 0 Aluminium Alloy Box	Pratley Aluminium Alloy Cable Boxes	No. 0

The Compression Conversion Kit is intended to connect an 3mm – 6mm diameter unarmoured cable to certified Ex e/n enclosure to form an Ex e/n assembly.

These Compression Conversion Kit are intended for use with cables complying with SANS 1507 or similar.

2. **MARKING:** The following (minimum) marking should be displayed the terminal box:

Manufacturer: Pratley  
Type: 13070, 13071, 13072, 62000, 62003 and 67074  
Ex e II, Ex tD, IP 68  
Size: See TABLE I (above)

**COMPLIANCE:** The units as described above and examined in TEST REPORT No. SABS 2335/10-366 is hereby certified "Explosion Protected" and is suitable for use in hazardous locations as stated below, as determined during tests and inspections conducted in accordance with the relevant requirements of SANS Standards: SANS 60079: "Electrical apparatus for explosive gas atmospheres", Part-0:2009 "General Requirements" and Part-7:2007 "Equipment protection by increased safety "e" and "Electrical apparatus for use in the presence of combustible dust", Part-0:2005 "General requirements" and Part-1:2005 "Protection by enclosures 'tD' "

**SABS COMMERCIAL (Pty) Ltd – Reg. No. 2000/013581/07**  
Directors: Mr CB Sibisi, Dr B Mehlomakulu, Dr GR Visser, Ms TA Cooper, Dr T Demana, Dr MJ Ellman,  
Mr WK Masvikwa, Ms B Mosako, Mr ME Mkwanzazi, Ms WIJ Poulton  
Ms W de Witt (Company Secretary)  
Website: [www.sabs.co.za](http://www.sabs.co.za) E-mail: [info@sabs.co.za](mailto:info@sabs.co.za)

**Gauteng Head Office**  
1 Dr Lategan Road, Groenkloof  
Private Bag X191  
Pretoria, 0001  
Tel: +27 (0) 12 428 7911  
Fax: +27 (0) 12 344 1666

**Western Cape:**  
Liesbeek Park Way, Rosebank  
PO Box 615, Rondebosch,  
Cape Town, 7701  
Tel: +27 (0) 21 681 6700  
Fax: +27 (0) 21 681 6701

**Eastern Cape:**  
30 Kipling Road (cnr. Diaz and Kipling Roads).  
PO Box 3013, North End,  
Port Elizabeth, 6056  
Tel: +27 (0) 41 391 8400  
Fax: +27 (0) 41 391 8427

**Kwazulu-Natal:**  
15 Garth Road, Waterfall Park  
PO Box 30087,  
Mayville, 4058  
Tel: +27 (0) 31 203 2900  
Fax: +27 (0) 31 203 2907

Locations : Zone 1,2 : Gas on surface  
: Zone 20, 21 and 22 : Dust on surface  
Hazard Frequency : Intermittent as could occur under normal operating conditions in a hazardous area  
Environment : Group II  
Temperature Class : -----  
Ingress Protection rating : IP 68

***The use of apparatus in hazardous locations is subject to the following provisions, which shall be adhered to:***

- i) SANS 10086 requirements;
- ii) Any relevant requirements of the MHS or OHS act;
- iii) Codes of Practice enforced in terms of Regulations 21.17.2 of the Mineral Act, by the Chief Inspector of Mines;
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines, Principal Inspector (Group I equipment) or Chief Inspector of Factories (Group II equipment);
- v) Any conditions mentioned in the above Test Report.



Evaluated by: **P Heigers**

**SIGNATORY**



Report reviewed by: **Duke Richard Nene**

**MANAGER**

**EXPLOSION PREVENTION TECHNOLOGY**