



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 07ATEX1122X** Issue: **0**

4 Equipment: **TMCX and TMC Ranges of Cable Glands**

5 Applicant: **CMP Products Limited**

6 Address: Glasshouse Street  
St Peters  
Newcastle-upon-Tyne  
NE6 1BE

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2006  
EN IEC 61241-0:2004

EN 60079-1:2004  
EN IEC 61241-1:2004

EN 60079-7:2003

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

**TMCX Cable Glands**



II 2 GD  
Ex d IIC or  
Ex e II or  
Ex d IIC / Ex e II  
Ex tD A21 IP66

**TMC Cable Glands**



II 2 GD  
Ex e II  
Ex tD A21 IP66

Project Number 59M16726  
C. Index 07

C Ellaby  
Certification Officer

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## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

Sira 07ATEX1122X  
Issue 0

#### 13 DESCRIPTION OF EQUIPMENT

The TMCX range of barrier type cable glands is designed for use with flexible MC-HL type cables. Each gland comprises a male-threaded front entry component, a compound tube, a rear component, a spring ring and an outer compression nut / seal arrangement.

The compound tube is fitted such that a spigot/combination joint is formed. The compound tube contains a setting compound that affects a flameproof seal around the cable cores passing through it and is mechanically retained. The cable is additionally retained by a spring ring compressed between the two components onto the corrugated metal armour sheath.

Additional sealing is achieved by the outer nut compressing a neoprene seal onto the cable sheath.

Cable and gland combinations/specifications are tabulated on CMP drawing GA167.

#### Design options

- Alternative materials of manufacture:
  - Aluminium alloy to BS1474:1987 Grade 6082 or BS1490 Grade LM25 TF
  - Brass to BS2874:1986 Grade CuZn39Pb (CW614N)
  - Mild steel to BS970 Pt1:1991 Grade 220M07Pb
  - Stainless steel to BS970 Pt1:1991 Grades 316S11, 316S13, 316S31 or 316S33
- Alternative entry component thread forms:
  - Metric ISO 965-1, ISO965-3 medium fit (6g) for external threads
  - ET(Conduit) BS 31:1940 (1979), Table A
  - PG DIN 40430:1971
  - BSPP BS 2779:1973 class A full form for external threads
  - BSPTBS 21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
  - ISOISO 7/1:1982, gauging to ISO 7/2 clause 6.3 for external threads
  - NPTANSI/ASME B1.20.1-1983 gauging to clause 8.1 for external threads
  - NPSM ANSI/ASME B1.20.1-1983 gauging to clause 9 for external threads

The **TMC range of compression type cable glands** is identical to the TMCX types but with the compound tube omitted and the front end component modified. Cable and gland combinations/specifications are tabulated on CMP drawing GA166.

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	23 October 2007	R59M16726A R59M17338A	The release of the prime certificate.

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Issue 0**

- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
- 15.1 Entry component threads may need additional sealing to maintain the ingress protection rating as applicable to the associated equipment in which it will be attached.
- 15.2 The cable glands shall only be used where the temperature, at the point of entry, is in the following ranges:  
TMCX Types: -60°C to +100°C.  
TMC Types: -60°C to 130 °C
- 15.3 TMCX & TMC cable glands > size 40 shall only be used on fixed installations and where the cable is effectively clamped.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)  
The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF CERTIFICATION**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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