



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX SIR 07.0005X** issue No.:4

Status: **Current**

Date of Issue: **2011-02-08** Page 1 of 4

Applicant: **CMP Products Limited**
Glasshouse Street
St Peters
Newcastle-upon-Tyne
Tyne and Wear NE6 1BS
United Kingdom

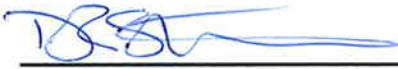
Electrical Apparatus: **T3CDS, T3CDS/PB and TE1F* Type Glands**
Optional accessory:

Type of Protection: **Flameproof, Increased Safety, Type 'n' and Dust**

Marking: **Ex d IIC / Ex e II / Ex nR II**
Ex tD A21 IP66
Ex d I / Ex e I

Approved for issue on behalf of the IECEx Certification Body: **D R Stubbings BA MIET**

Position: **Certification Manager**

Signature: 
(for printed version)

Date: 2011-02-08

Certificate history:
Issue No. 4 (2011-2-8)
Issue No. 3 (2009-11-25)
Issue No. 2 (2008-12-1)
Issue No. 1 (2007-6-13)
Issue No. 0 (2007-2-23)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



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Manufacturer: **CMP Products Limited**
Glasshouse Street
St Peters
Newcastle-upon-Tyne
Tyne and Wear NE6 1BS
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-15 : 2005-03 Edition: 3	Electrical apparatus for explosive gas atmospheres Part 15: Construction, test and Marking of Type of Protection "n" electrical apparatus
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/SIR/ExTR07.0005/00
GB/SIR/ExTR07.0048/00
GB/SIR/ExTR08.0126/00
GB/SIR/ExTR09.0185/00
GB/SIR/ExTR10.0317/00
GB/SIR/ExTR11.0019/00

Quality Assessment Report:

GB/SIR/QAR06.0011/00
GB/SIR/QAR07.0009/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

T3CDS 'Ex de' Type – a range of cable glands each comprising a hollow threaded entry component containing a compensating displacement seal (CDS) system comprising of a compensator, ferrule, displacement seal, and skid washer, which are activated by the tightening of a threaded CDS nut. The cable armour is terminated between a reversible clamping cone and clamping ring when the threaded main gland body is tightened onto the entry component.

An outer seal and outer seal nut are fitted to the other end of the body. The glands are intended for use with appropriately sized SWA, strip armoured or braided cables. The design is such that a constant pressure is maintained on the displacement seal by the activation of the CDS system.

T3CDS/PB 'Ex de' Type - Identical to the T3CDS Type but incorporate a continuity washer and are suitable for use with lead sheathed cables.

TE1F* Type - Identical inner seal/armour clamp front/outer seal to the T3CDS Type but overall length is shortened. The glands are intended for use with appropriately sized SWA, strip armoured, tape armoured or braided cables.

See Annexe for design options

CONDITIONS OF CERTIFICATION: YES as shown below:

- The glands shall not be used on enclosures where the temperature, at the point of mounting, exceeds the following values

Gland Type	T3CDS	T3CDS/PB	TE1F*
Minimum	-60°C	-60°C	-60°C
Maximum	+130°C	+130°C	+130°C
- When used with braided cable, the glands shall be used for fixed installations only. Cables must be effectively clamped to prevent pulling or twisting
- When used in Group I applications, the equipment shall only be mounted where the risk of mechanical impact is low
- When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent twisting and pulling



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 - this Issue introduced the following changes:

1. Revised outer sealing arrangement

Issue 2 - this Issue introduced the following changes:

1. The addition of 20s16/20s and 20/25s sizes.
2. Alternative 'size-up' entry threads.

Issue 3 - this Issue introduced the following changes:

1. The increase in scope of use to include Group I was recognised a new Special Condition For Safe Use is also introduced.
2. The introduction of an alternative outer seal arrangement to allow the fitting of the glands to flexible conduit and an associated Special Condition For Safe Use
3. The addition of the size 16 gland to the T3CDS and T3CDS/PB range

Issue 4 - this Issue introduced the following changes:

1. Following appropriate re-assessment to demonstrate compliance with the requirements of the latest IEC 60079 series of standards, the standards originally listed on page 2, IEC 60079-1:2004 and IEC 60079-7-1:2003, were replaced by those currently listed on page 2.
2. The introduction of a shorter version of the 'T3CDS' glands, having the type designation 'TE1F*' was recognised, the description is modified to include this version.
3. Typographical errors to the drawings and description were amended; a table of the gland ranges and seal sizes was also added in line with other gland range types. An annexe was added to allow additional descriptive information.

Annexe to: IECEx SIR 07.0005X Issue 4
Applicant: CMP Products Limited
Apparatus: T3CDS, T3CDS/PB and TE1F* Range of Cable Glands



T3CDS, T3CDS/PB and TE1F* Range of Cable Glands

The gland and seal sizes are determined by the entry thread and cable range-take sizes:-

Gland size	Entry thread	Entry thread 'B' version	Inner seal sheath range ø (mm)		SWA (mm)		SWA, STA, strip armour, pliable wire armour & wire braid (mm)		Outer seal sheath range ø (mm)	
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16	M16x1.5	---	3.1	8.7	0	1.0	0.9	1.0	6.1	13.2
20S16	M20x1.5	M25x1.5	3.1	8.7	0	1.0	0.9	1.25	6.1	13.2
20S16/20S	M20x1.5	M25x1.5	3.1	8.7	0	1.0	0.9	1.25	9.5	15.9
20S	M20x1.5	M25x1.5	6.1	11.7	0	1.0	0.9	1.25	9.5	15.9
20	M20x1.5	M25x1.5	6.5	14.0	0	1.0	0.9	1.25	12.5	20.9
25S	M25x1.5	M32x1.5	11.1	20.0	0	1.0	1.25	1.6	14.0	22.0
25	M25x1.5	M32x1.5	11.1	20.0	0	1.0	1.25	1.6	18.2	26.2
32	M32x1.5	M40x1.5	17.0	26.3	0	1.0	1.6	2.0	23.7	33.9
40	M40x1.5	M50x1.5	22.0	32.2	0	1.0	1.6	2.0	27.9	40.4
50S	M50x1.5	M63x1.5	29.5	38.2	0	1.0	2.0	2.5	35.2	46.7
50	M50x1.5	M63x1.5	35.6	44.1	0	1.0	2.0	2.5	40.4	53.1
63S	M63x1.5	M75x1.5	40.1	50.0	0	1.0	2.0	2.5	45.6	59.4
63	M63x1.5	M75x1.5	47.2	56.0	0	1.0	2.0	2.5	54.6	65.9
75S	M75x1.5	M90x2.0	52.8	62.0	0	1.0	2.5	3.0	59.0	72.1
75	M75x1.5	M90x2.0	59.1	68.0	0	1.6	2.5	3.0	66.7	78.5
90	M90x2.0	M100x2.0	66.6	80.0	0	1.6	3.15	4.0	76.2	90.4
100	M100x2.0	M115x2.0	76.0	91.0	0	1.6	3.15	4.0	86.1	101.5
115	M115x2.0	M130x2.0	86.0	98.0	0	1.6	3.15	4.0	101.5	110.3
130	M130x2.0	---	97.0	115.0	0	1.6	3.15	4.0	114.2	123.3

Design Options

- Entry Thread options: Metric to BS 3643:1981
ET to BS 31: 1940
PG to DIN 40430:1971
BSPP to BS 2779:1973
BSPT to BS 21:1985
ISO to ISO 7/1:1982
NPT to USAS B2.1-1968
NPT to ANSI/ASME B1.20.1-1983
NPSM to ANSI/ASME B1.20.1-1983
- Material options for metallic parts: Brass (standard T3CDS), mild steel, stainless steel (standard TE1F*) or aluminium with a magnesium content less than 6% by weight.
- The option to have an alternative entry component profile that incorporates an earth lug.

Annexe to: IECEx SIR 07.0005X Issue 4
Applicant: CMP Products Limited
Apparatus: T3CDS, T3CDS/PB and TE1F* Range of Cable Glands



- Single or double sided and with an identically dimensioned plain taper each side for SWA type cables, the gland type designation becoming T3CDSW, T3CDSW/PB, TE1FW and TE1FW/PB.
- Single or double sided with an identically dimensioned grooved taper each side for strip armoured or braided type cables; the gland type designation becoming T3CDSX, T3CDSX/PB, TE1FX and TE1FX/PB.
- The front entry component may be manufactured with a profiled groove to captivate an 'O' ring seal which locates on the mating face with the associated enclosure. This option having the gland type designation prefixed with the letter 'R', e.g. RT3CDS.

Date: 03 February 2011

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