



# 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](http://www.iecex.com)

Certificate No.: IECEx SIR 06.0041X issue No.:5  
Status: **Current**  
Date of Issue: 2011-02-08 Page 1 of 4

Certificate history:  
Issue No. 5 (2011-2-8)  
Issue No. 4 (2009-11-25)  
Issue No. 3 (2008-12-1)  
Issue No. 2 (2007-7-19)  
Issue No. 1 (2007-6-25)

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

Electrical Apparatus: **SS2K, SS2KPB & SS2KTA Type Ranges of Cable Glands**  
*Optional accessory:*

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

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

*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

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  
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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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-15 : 2005-03</b> Edition: 3	Electrical apparatus for explosive gas atmospheres Part 15: Construction, test and Marking of Type of Protection "n" electrical apparatus
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> 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/ExTR06.0061/00](#)  
[GB/SIR/ExTR07.0010/00](#)  
[GB/SIR/ExTR07.0042/00](#)  
[GB/SIR/ExTR08.0126/00](#)  
[GB/SIR/ExTR09.0185/00](#)  
[GB/SIR/ExTR10.0317/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0011/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The SS2K & SS2KPB ranges of cable glands are intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component, a main body component and an outer seal actuation nut. The front entry component, fitted with an elastomeric sealing ring and a Nylon 6 skid washer, is intended to screw into an entry point of its associated enclosure. The main body component, fitted with a locking ring, threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable inner sheath. The outer seal actuation nut, fitted with an elastomeric sealing ring and a Nylon 6 skid washer, threads into the main body component thereby effecting environmental sealing onto the cable outer sheath. Two versions of the outer nut are available to allow alternative sizes of outer sheath to be gripped.

Cable clamping is achieved with the outer seal arrangement.

The type SS2KPB front entry component being additionally fitted with a metallic continuity diaphragm and skid washer for use with lead sheathed cable.

The SS2KTA range of cable glands is intended to terminate tape armour cable into enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. The devices are identical to the SS2K range of glands but with the addition of a metallic continuity diaphragm and skid washer. The SS2KTA glands are marked Ex e II only.

See Annexe for further details.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The SS2K and SS2KPB cable gland ranges shall only be used where the temperature, at the point of entry, is between -60°C to +130°C.
2. The SS2K and SS2KPB cable gland ranges are fitted with one specific size of FLP sealing ring per gland size as supplied.
3. The SS2K and SS2KPB cable gland sizes 16 and 20s/16 cable entries are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.
4. The SS2K and SS2KPB ranges of cable gland 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.
5. 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 To allow the brass, mild steel and stainless steel glands to be used for Group I applications, the following markings are applicable: Ex d I/Ex e IEx d IEx e I

**Issue 2** – this Issue introduced the following changes:

- 1 The description was clarified to include Ex e II marking for SS2KTA glands

**Issue 3** – this Issue introduced the following changes:

- 1 The use of an alternative backnut & seal and consequential cable diameter range. The addition of the 20s16/20s size. The option for the glands to be manufactured with an entry thread that is one size up from the nominal gland size.

**Issue 4** – this Issue introduced the following changes:

- 1 The recognition of an alternative outer seal arrangement to allow the fitting of the SS2K, SS2KPB and SS2KTA glands to flexible conduit, including a new Special Condition For Safe use. The addition of the size 16 gland to the SS2K, SS2KPB and SS2KTA range

**Issue 5** – this Issue introduced the following changes:

- 1 Following appropriate re-assessment to demonstrate compliance, the originally listed standards IEC 60079-1:2003 and IEC 60079-7:2001 were replaced by IEC 60079-1:2007 and IEC 60079-7:2006 respectively.

**Annexe to:** IECEx SIR 06.0041X Issue 5  
**Applicant:** CMP Products Limited  
**Apparatus:** SS2K & SS2KPB Type Range of Cable Glands



**Description (continued):**

**Design options**

- 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. 25RE\*\*.
- Alternative materials of manufacture:
  - 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
  - Aluminium alloy to BS1474:1987 Grade 6082 or BS1490 Grade LM25 TF (Not Group I)
- 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
  - NPSMANSI/ASME B1.20.1-1983 gauging to clause 9 for external threads
- Alternative material of manufacture of the skid washer to be the same as the gland material.
- The recognition of an alternative outer seal arrangement to allow the fitting of the SS2K, SS2KPB and SS2KTA glands to flexible conduit, including a new Special Condition For Safe use.

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

Gland size	Entry thread	Entry thread 'B' version	Cable inner seal sheath range Ø (mm)		Cable outer seal sheath range Ø (mm)		Alternative outer seal sheath range Ø (mm)	
			Min.	Max.	Min.	Max.	Min.	Max .
16	M16 x 1.5	-	3.2	8.7	3.1	8.7	6.1	11.5
20s/16	M20 x 1.5	M25 x 1.5	3.2	8.7	3.1	8.7	6.1	11.5
20s16/20s	M20 x 1.5	M25 x 1.5	3.2	8.7	6.1	11.7	9.5	15.9
20s	M20 x 1.5	M25 x 1.5	6.1	11.7	6.1	11.7	9.5	15.9
20s/20	M20 x 1.5	M25 x 1.5	6.1	11.7	6.5	14.0	12.5	20.9
20	M20 x 1.5	M25 x 1.5	6.5	14.0	6.5	14.0	12.5	20.9
20/25	M20 x 1.5	M25 x 1.5	6.5	14.0	11.1	20.0	18.2	26.2
25	M25 x 1.5	M32 x 1.5	11.1	20.0	11.1	20.0	18.2	26.2
25/32	M25 x 1.5	M32 x 1.5	11.1	20.0	17.0	26.3	23.7	33.9
32	M32 x 1.5	M40 x 1.5	17.0	26.3	17.0	26.3	23.7	33.9
32/40	M32 x 1.5	M40 x 1.5	17.0	26.3	22.0	32.2	27.9	40.4
40	M40 x 1.5	M50 x 1.5	23.5	32.2	22.0	32.2	27.9	40.4
40/50s	M40 x 1.5	M50 x 1.5	23.5	32.2	29.5	38.2	35.2	46.7
50s	M50 x 1.5	M63 x 1.5	31.0	38.2	29.5	38.2	35.2	46.7
50s/50	M50 x 1.5	M63 x 1.5	31.0	38.2	35.6	44.1	40.4	53.1
50	M50 x 1.5	M63 x 1.5	35.6	44.1	35.6	44.1	40.4	53.1
50/63s	M50 x 1.5	M63 x 1.5	35.6	44.1	40.1	50.1	45.6	59.4
63s	M63 x 1.5	M75 x 1.5	41.5	50.0	40.1	50.1	45.6	59.4
63s/63	M63 x 1.5	M75 x 1.5	41.5	50.0	47.2	56.0	54.6	65.9
63	M63 x 1.5	M75 x 1.5	47.2	56.0	47.2	56.0	54.6	65.9

**Sira Certification Service**

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Annexe to: IECEx SIR 06.0041X Issue 5  
 Applicant: CMP Products Limited  
 Apparatus: SS2K & SS2KPB Type Range of Cable Glands



Gland size	Entry thread	Entry thread 'B' version	Cable inner seal sheath range Ø (mm)		Cable outer seal sheath range Ø (mm)		Alternative outer seal sheath range Ø (mm)	
			Min.	Max.	Min.	Max.	Min.	Max .
63/75s	M63 x 1.5	M75 x 1.5	47.2	56.0	52.8	62.0	59.0	72.1
75s	M75 x 1.5	M90 x 2.0	54.0	62.0	52.8	62.0	59.0	72.1
75s/75	M75 x 1.5	M90 x 2.0	54.0	62.0	59.1	68.0	66.7	78.5
75	M75 x 1.5	M90 x 2.0	61.1	68.0	59.1	68.0	66.7	78.5
75/90	M75 x1.5	M90 x 2.0	61.1	68.0	66.6	79.4	76.2	90.4
90	M90 x 2.0	M100 x 2.0	66.6	80.0	66.6	79.4	76.2	90.4
90/100	M90 x 2.0	M100 x 2.0	66.6	80.0	76.0	91.0	86.1	101.5
100	M100 x 2.0	M115 x 2.0	76.0	91.0	76.0	91.0	86.1	101.5
100/115	M100 x 2.0	M115 x 2.0	76.0	91.0	86.0	98.0	101.5	110.3
115	M115 x 2.0	M130 x 2.0	86.0	98.0	86.0	98.0	101.5	110.3
115/130	M115 x 2.0	M130 x 2.0	86.0	98.0	97.0	115.0	114.2	123.3
130	M130 x 2.0	Not available	97.0	115.0	97.0	115.0	114.2	123.3

Date: 28 January 2011

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