



# 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.:  issue No.:  Certificate history:

Status:

Date of Issue: **2013-05-03** Page 1 of 3

Applicant: **CMP Products Ltd**  
Glasshouse Street  
St Peters  
Newcastle upon Tyne  
NE6 1BS  
United Kingdom

Electrical Apparatus: **Cable Gland Types SS2K\*\***  
Optional accessory:

Type of Protection: **Flameproof, Increased Safety, Restricted Breathing and Dust Protection by Enclosure**

Marking: **Ex e I Mb** **Ex e IIC Gb** **Ex ta IIC Da**  
**Ex d I Mb** **Ex d IIC Gb**  
**Ex nR IIC Gc**  
**Ta = -60°C to +130°C Note 1**  
**-20°C to +200°C Note 2**  
Note 1 When fitted with the standard seal  
Note 2 When fitted with the high temperature seal

Approved for issue on behalf of the IECEx Certification Body: **P J Walsh**

Position: **Technical Advisor**

Signature: *PJ Walsh*  
(for printed version)

Date: 2013-05-03

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



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 13.0024X

Date of Issue: 2013-05-03

Issue No.: 0

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Manufacturer: **CMP Products Ltd**  
Glasshouse Street  
St Peters  
Newcastle upon Tyne  
NE6 1BS  
United Kingdom

Additional 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 : 2011</b> Edition: 6.0	Explosive 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 : 2010</b> Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR13.0066/00](#)

Quality Assessment Report:  
[GB/SIR/QAR07.0009/04](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 13.0024X

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## Schedule

### EQUIPMENT:

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

The SS2K range 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 seal nut are available to allow alternative sizes of outer sheath to be gripped.

For Types and Design Options refer to the Annexe

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

1. When the cable glands are supplied with an entry thread that is one size up from the nominal gland size, designated with the letter 'B' after the gland size, e.g. 32B\*\*\*\*, they shall not be used with any adaptor device.

**Annexe to:** IECEx SIR 13.0024X Issue 0  
**Applicant:** CMP Products Ltd.  
**Apparatus:** Cable Gland Types SS2K\*\*



### **Type designation SS2K/PB Range**

The SS2K/PB range of cable glands is the same as the SS2K range but the front entry component is fitted with an electrical continuity device for use with lead sheathed cable.

### **Type designation SS2K/TA Range**

The SS2K/TA range of cable glands is identical to the SS2K/PB range but is used to terminate circular cables with a tape armour sheath. It is for use in Ex e applications only.

### **Type designation SS2K-FF**

The SS2K-FF range of cable glands is the same as the SS2K range, but it is fitted with seals suited for use with flat form cables. For use only in Group II applications.

### **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. 25RSS2K.
- Materials of manufacture:
  - Brass to EN12168:1998 Grade CuZn39Pb (CW614N)
  - Mild steel to BS EN 10088-3:2005 Grade 220M07Pb
  - Stainless steel to BS EN 10088-3:2005 Grade 316S11, 316S13, 316S31 or 316S33
  - Aluminium alloy not inferior to grade 6082 to EN755,1-3:1996 or LM25 to BS EN 1676:2010 (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
  - BSPT BS 21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
  - ISO ISO 7/1:1982, gauging to ISO 7/2 clause 6.3 for external threads
  - NPT ANSI/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 option to manufacture glands with entry threads that are one size up from the nominal quoted gland size.
- Alternative material of manufacture of the skid washer to be the same as the gland material.
- The front entry component may additionally be fitted with a metallic continuity diaphragm and skid washer for use with lead sheathed cable.
- The main body component may additionally be fitted with an electrical continuity device for use with variable speed drive (VSD) / variable frequency drive (VFD) cables.
- The option to fit a flat blanking disc between the outer seal and the main body to maintain an minimum IP66 ingress protection. The disc to be marked 'Exe only' to indicate that the gland is not suitable for use in Ex d applications when it is fitted.
- An optional outer seal nut with an anchor to which hose can be connected by a jubilee clip or similar

**Date:** 29 April 2013

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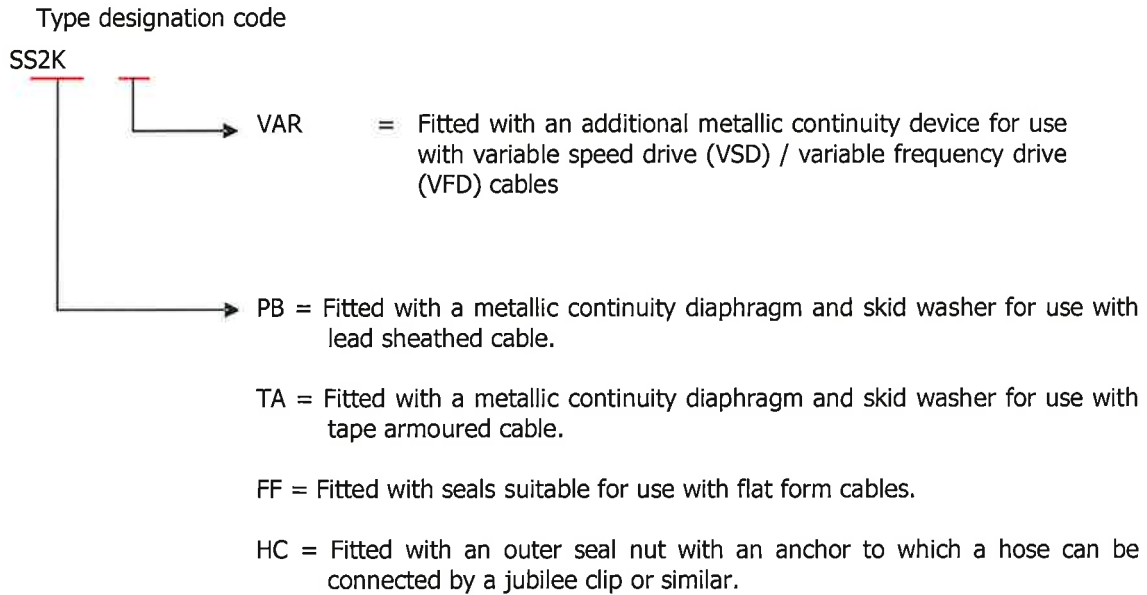
**Form 9530 Issue 1**

### **Sira Certification Service**

Rake Lane, Eccleston, Chester, CH4 9JN, England

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Web: [www.siracertification.com](http://www.siracertification.com)

**Annexe to:** IECEx SIR 13.0024X Issue 0  
**Applicant:** CMP Products Ltd.  
**Apparatus:** Cable Gland Types SS2K\*\*



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	13.2
20s/16	M20 x 1.5	M25 x 1.5	3.2	8.7	3.1	8.7	6.1	13.2
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
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 x 1.5	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

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**Applicant:** CMP Products Ltd.  
**Apparatus:** Cable Gland Types SS2K\*\*



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.
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	110.2	123.3
130	M130 x 2.0	Not available	97.0	115.0	97.0	115.0	110.2	123.3

Cable sizes for the SS2K-FF range only

Gland size	Entry thread	Entry thread 'B' version	Cable inner seal sheath range (mm)		Cable outer seal sheath range (mm)	
			Min.	Max.	Min.	Max.
20s	M20 x 1.5	M25 x 1.5	4.0 x 6.2	6.8 x 11.7	4.0 x 6.2	6.8 x 11.7
20	M20 x 1.5	M25 x 1.5	5.7 x 8.0	8.7 x 13.5	5.7 x 8.0	8.7 x 13.5