

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

\cap	rtificate	No.	

IECEx SIR 06.0044X

issue No.:2

History:

Issue No. 2 (2007-6-25) Issue No. 1 (2007-1-23)

Status:

Current

Date of Issue:

2007-06-25

Page 1 of 4

Applicant:

CMP Products Limited

Glasshouse Street

St Peters, Newcastle-upon-Tyne Tyne and Wear NE6 1BS

United Kingdom

Electrical Apparatus:

Optional accessory:

PX** Type Range of Compound Filled Barrier Cable Glands

Type of Protection:

Flameproof, increased safety and dust

Marking:

Ex d IIC/Ex e II /Ex nR II or Ex d IIC, Ex e II or

Ex tD A21 IP66

or for PXSS2K range ONLY Ex d I/Ex e I or Ex d I or Ex e I

Approved for issue on behalf of the IECEx

D R Stubbings

Certification Body:

Certification Manager

Position:

Signature: (for printed version)

Date:

2007-06-25

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.

Certificate issued by:

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





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Page 2 of 4

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 manufacture'rs 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

Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition: 4.0

IEC 60079-1: 2003

Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'

Edition: 5

IEC 60079-15 : 2005-

Electrical apparatus for explosive gas atmospheres Part 15: Contruction, test and

Marking of Type of Protection "n" electrical apparatus

03 Edition: Ed 3

IEC 60079-7: 2001

Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

Edition: 3

IEC 61241-0: 2004

Electrical apparatus for use in the presence of combustible dust - Part 0: General

Edition: 1 require

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/ExTR06.0061/00 GB/SIR/ExTR07.0002/00 GB/SIR/ExTR07.0042/00

Quality Assessment Report: GB/SIR/QAR06.0011/00



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Certificate No .:

IECEX SIR 06.0044X

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Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The PX** series Type ranges of barrier cable glands consist of a male-threaded front entry component, fitted with a compound tube such that a spigot/combination joint is formed, which is intended to screw into an entry point of its associated enclosure in accordance with relevant codes of practice. The compound tube contains Cedesa EP2122 setting compound that effects a flameproof seal around the cable cores passing through it and is mechanically retained. The front entry component to main body mating thread may be fitted with an optional 'O' ring seal to provide increased ingress protection. Clamping of the armour or braid is effected by a combination of the front entry component assembly and the different optional armour cone and reversible sleeve combinations within the main body being fastened together. An outer seal nut, containing an Evoprene Super G621 elastomeric displacement sealing ring and a Nylon 6 ferrule, threads onto the main body and effects environmental sealing onto the cable outer sheath. Cable clamping is achieved with the outer seal arrangement.

Refer to Annex for more information

CONDITIONS OF CERTIFICATION: YES as shown below:

The PX** type cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +100°

The PX** type cable glands used for terminating braided cables are only suitable for fixed installations. Cables must be

effectively clamped to prevent pulling or twisting.

The PX** type 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.



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IECEx SIR 06.0044X

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Page 4 of 4

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

Original dated 2006-09-20 Issue 1 dated 2007-01-23								
Issue 2	dated 2007-06-25							
2	The introduction of Ex nR II and Ex tD marking The recognition of alternative armour cone diameters The removal of the manufacturer's address from the product marking The use of the PX range of glands with pliable wire armour							

Annexe: 06.0044X Annex pdf

Annexe to:

IECEX SIR 06.0044X

Applicant:

CMP Products Ltd

Electrical Apparatus:

PX** 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. 25RPX**.

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

- The use of alternative armour clamping components specified by the cable gland type designation, The various arrangements vary the cable gland suitability for differing armour or braided type cables.
- Alternative material of manufacture of the ferrule to be the same as the gland material.
- The removal of the ATEX outer seal, nut and ferrule, along with the body component manufactured without the external mating thread. The cable gland being suitable for S.W.A armoured cables and is identified within type designation coding.
- The use of the compound tube and spacer along with the manufacture of the front entry component with a female mating thread, to couple to an alternative main body, skid washer, seal and nut. The latter replacing other component parts. This variant being identified within type designation coding.

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

Gland size	Entry thread	Max. no. of cores	Max. Ø over cores	SWA		STA, strip armour, pliable wire armour* & wire braid		PXSS2K outer seal sheath range Ø		PX** outer seal sheath range Ø	
				Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
20s/16	M20 x 1.5	34	12.6	0.9	1.00	0	1.0	3.1	8.7	6.1	11.5
20s	M20 x 1.5	34	12.6	0.9	1.25	0	1.0	6.1	11.7	9.5	15.9
20	M20 x 1.5	34	12.6	0.9	1.25	0	1.0	6.5	14.0	12.5	20.9
20L	M20 x 1.5	34	12.6	0.9	1.25	0	1.0	10.0	15.9	N/A	N/A
25s	M25 x 1.5	80	17.5	1.25	1.6	. 0	1.0	11.1	20.0	14.0	22.0

Sira Certification Service

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

+44 (0) 1244 670900 Tei: +44 (0) 1244 681330 Fax:

Email: Web:

Info@siracertification.com www.siracertification.com Annexe to:

IECEx SIR 06.0044X

Applicant:

CMP Products Ltd

Electrical Apparatus:

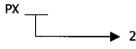
PX** Type Range of Cable Glands



Gland size	Entry thread	Max. no. of cores	Max. Ø over cores	SV	VA	STA, strip armour, pliable wire armour* & wire braid		PXSS2K outer seal sheath range Ø		PX** outer seal sheath range Ø	
			(mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
25	M25 x 1.5	80	17.5	1.25	1.6	0	1.0	11.1	20.0	18.2	26.2
32	M32 x 1.5	115	23.6	1.6	2.0	0	1.0	17.0	26.3	23.7	33.9
32L	M32 x 1.5	115	23.6	1.6	2.0	0	1.0	20.0	27.4	N/A	N/A
40	M40 x 1.5	185	30.0	1.6	2.0	0	1.0	22.0	32.1	27.9	40.4
50s	M50 x 1.5	274	36.6	2.0	2.5	0	1.0	29.5	38.2	35.2	46.7
50	M50 x 1.5	343	41.0	2.0	2.5	0	1.0	35.6	44.1	40.4	53.1
63s	M63 x 1.5	466	47.9	2.0	2.5	0	1.0	40.1	50.1	45.6	59.4
63	M63 x 1.5	585	53.7	2.0	2.5	0	1.0	47.2	56.0	54.6	65.9
75s	M75 x 1.5	727	59.9	2.0	2.5	0	1.0	52.8	62.0	59.0	72.1
75	M75 x 1.5	837	64.3	2.0	2.5	0	1.0	59.1	68.0	66.7	78.5
90	M90 x 2.0	1146	75.3	3.15	3.15	0	1.6	66.6	79.4	76.2	90.4

^{* - &#}x27;2KX' and '2K' variants; see below.

Type designation code



- 2KW = Fitted with single plain armour cone & reversible armour sleeve to suit SWA cables.
- 2KX = Fitted with single grooved armour cone & reversible armour sleeve to suit STA, strip armoured, pliable wire armoured and braided cables.
- 2K = Gland kit provided with 2 single armour cones (From the 2KW & 2KX) and reversible armour sleeve to suit SWA, STA, strip armoured, pliable wire armoured and braided cables.
- B2KW = Fitted with single plain armour cone & reversible armour sleeve, but has no outer seal, nut or ferrule. The body is also manufactured without the external mating thread. The cable gland is suitable for SWA cables.
- SS2K = Alternative manufactured front entry component coupled to an alternative main body, skid washer, seal and nut for use with unarmoured cables.
- 2KPB = Alternative two part cone assembly incorporating an additional metallic continuity diaphragm for the use with inner lead sheathed SWA. STA and braided cables.

Sira Certification Service

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

Tel: Fax: Fmail:

Web:

+44 (0) 1244 670900 +44 (0) 1244 681330 Info@siracertification.com www.siracertification.com