

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 13.0027X	issue	No.:0	Certificate history:
Status:	Current			
Date of Issue:	2013-05-03	F	Page 1 of 3	
Applicant:	CMP Products Ltd Glasshouse Street St Peters Newcastle upon Tyne NE6 1BS United Kingdom			
Electrical Apparatus: Optional accessor	Cable Gland Types PX**			
Type of Protection	n: Flameproof, Increased Sa	lfety, Restricted Bre	athing and Dust Pro	otection by Enclosure
Marking:	Ex e I Mb Note 1 Ex d I Mb Note 1	Ex e IIC Gb Ex d IIC Gb Ex nR IIC Gc Ta =	Ex ta IIIC Da	
	Note 1 Not applicable to PXRC			
	e on behalf of the IECEx :	P J Walsh		
Certification Body				
Certification Body Position:		Technical Advisor		
	1)		L.	
Position: Signature:	n)	PJWar 2013 - 0	h.	

Certificate issued by:

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





IECEx Certificate of Conformity

Certificate No.:

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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:

IEC 60079-0: 2011

Explosive atmospheres - Part 0: General requirements

Edition: 6.0

IEC 60079-1: 2007-04

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition: 6

IEC 60079-15: 2010

Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

Edition: 4

IEC 60079-31: 2008

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

Edition: 1

IEC 60079-7: 2006-07

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition: 4

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



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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 barrier 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 barrier tube is filled with a sealing material that creates 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 and the different optional armour cone and reversible sleeve combinations within the main body being fastened together. An outer seal nut threads onto the main body and creates an environmental seal between the gland and cable outer sheath. The outer seal nut contains an elastomeric sealing ring and a Nylon 6 ferrule.

For Design Options and additional information refer to the Annexe

CONDITIONS OF CERTIFICATION: YES as shown below:

- The glands when used for terminating braided cables are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.
- 2. The PXB2KW gland is to be protected from hydraulic fluids, oils, and greases when applied for Group I use.
- 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.
- 4. When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent twisting and pulling.
- 5. The PX range of cable glands with entry threads smaller than a M25 (or equivalent) size shall not be used for Group I, Category M2 applications where there is a 'high' risk of mechanical damage.

Annexe to:

IECEx SIR 13.0027X Issue 0

Applicant:

CMP Products Ltd

Apparatus:

Cable Gland Types PX**



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. 25RPX2KW.
- 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:

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 ANSI/ASME B1.20.1-1983 gauging to clause 9 for external threads NPSM

- The option to manufacture glands with entry threads that are one size up from the nominal quoted gland
- Alternative material of manufacture of the ferrule to be the same as the gland material.
- The removal of the 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 barrier 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.
- PXSS2K range can be fitted with the outer seal nut from the PX** range as an alternative.
- PX type glands may be fitted with armour cones with alternative diameters to allow the clamping of smaller or larger armour wires.
- Alternative outer seal arrangement to allow the glands to be attached to flexible conduit.
- PX2K** range can be fitted with the outer seal nut assembly from the PKSS2K range as an alternative.

The gland and seal sizes are determined by the entry thread and cable range take sizes. In addition note that not all the information detailed in the table is applicable to both gland types. See individual approval drawings.

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Sira Certification Service

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

Tei: Email:

Web:

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

03 May 2013

Date:

Annexe to:

IECEx SIR 13.0027X Issue 0

Applicant:

CMP Products Ltd

Apparatus:

Cable Gland Types PX**



Gland size	Entry thread	Entry thread 'B' version	Max. no. of cores	Max. Ø over cores (mm)	SWA (mm)		SWA, STA, strip armour, pliable wire armour ¹ & wire braid (mm)		PXSS2K ^{2,3} outer seal sheath range Ø (mm)		PX** ³ outer seal sheath range Ø (mm)	
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max
20s/1 6	M20 x 1.5	M25 x 1.5	11	12.6	0.8	1.25	0	0.8	3.1	8.7	6.1	13.2
20s	M20 x 1.5	M25 x 1.5	11	12.6	0.8	1.25	0	0.8	6.1	11.7	9.5	15.9
20	M20 x 1.5	M25 x 1.5	11	12.6	0.8	1.25	0	0.8	6.5	14.0	12.5	20.9
20L	M20 x 1.5	M25 x 1.5	11	12.6	0.8	1.25	0	0.8	10.0	15.9	N/A	N/A
25s	M25 x 1.5	M32 x 1.5	21	17.5	1.25	1.6	0	1.1	11.1	20.0	14.0	22.0
25	M25 x 1.5	M32 x 1.5	21	17.5	1.25	1.6	0	1.1	11.1	20.0	18.2	26.2
32	M32 x 1.5	M40 x 1.5	38	23.6	1.6	2.0	0	1.2	17.0	26.3	23.7	33.9
32L	M32 x 1.5	M40 x 1.5	38	23.6	1.6	2.0	0	1.2	20.0	27.4	N/A	N/A
40	M40 x 1.5	M50 x 1.5	59	30.0	1.6	2.0	0	1.2	22.0	32.1	27.9	40.4
50s	M50 x 1.5	M63 x 1.5	89	36.6	2.0	2.5	0	1.5	29.5	38.2	35.2	46.7
50	M50 x 1.5	M63 x 1.5	89	41.0	2.0	2.5	0	1.5	35.6	44.1	40.4	53.1
63s	M63 x 1.5	M75 x 1.5	115	47.9	2.0	2.5	0	1.5	40.1	50.1	45.6	59.4
63	M63 x 1.5	M75 x 1.5	115	53.7	2.0	2.5	0	1.5	47.2	56.0	54.6	65.9
75s	M75 x 1.5	M90 x 2.0	140	59.9	2.0	2.5	0	1.5	52.8	62.0	59.0	72.1
75	M75 x 1.5	M90 x 2.0	140	64.3	2.5	3.0	0	1.5	59.1	68.0	66.7	78.5
90	M90 x 2.0	M100 x 2.0	200	75.3	3.0	3. 5	0	1.6	66.6	79.4	76.2	90.4
100	M100 x 2.0	M115 x 2.0	200	85.6	3.15	4.0	0	1.6	76.0	90.9	86.1	101.5

PX*-FF in these sizes only.

Gland size	Entry thread	Entry thread 'B'	PXSS2K seal shea	th range (mm)	Other PX* seal sheath range (mm)		
l l		version	Min.	Max.	Min.	Max.	
20s	M20 x 1.5	M25 x 1.5	4.0 x 6.2	6.8 x 11.7	4.4 x 7.8	6.8 x 11.7	
20	M20 x 1.5	M25 x 1.5	5.7 x 8.0	8.7 x 13.5	4.4 x 10.9	8.7 x 16.0	

Date: 03 May 2013 Page 2 of 3

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Tel: Fax:

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

Form 9530 Issue 1

Email: Web:

¹ '2KX' and '2K' variants; see below.
² including PX** fitted with alternative outer nut as drawing GA273.

³ Not PXRC variant.

Annexe to:

IECEx SIR 13.0027X Issue 0

Applicant:

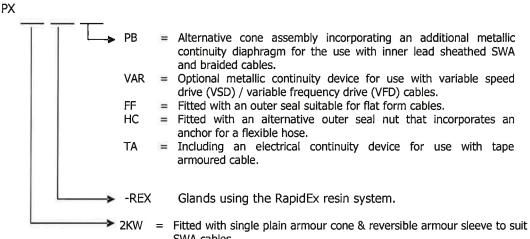
CMP Products Ltd

Apparatus:

Cable Gland Types PX**



Type designation code



- SWA cables.
- 2KX Fitted with single grooved armour cone & reversible armour sleeve to suit SWA, STA, strip armoured, pliable wire armoured and braided cables.
- Gland kit provided with 2 single armour cones (From the 2KW & 2KX) 2K 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.
- SS2K-HC As the SS2K but with an alternative seal nut that incorporates a hose connection
- RC = Alternative manufactured front entry component attached to a fixed or running coupler (of the same construction as on the A2FRC) and skid washer. Used with unarmoured cables in conduit.
- VAR = Optional construction where the cone and sleeve assembly is replaced by a metallic continuity device for use with variable speed drive (VSD) / variable frequency drive (VFD) cables..

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