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 10.0094X issue No.:0

Certificate history:

Status: **Current**

Date of Issue: **2010-08-02** Page 1 of 4

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

Electrical Apparatus: **PXFC Barrier Glands for Flexible Conduit**
Optional accessory:

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

Marking: **Ex d IIC Gb / Ex e IIC Gb**
Ex ta IIIC Da IP6X

Approved for issue on behalf of the IECEx Certification Body: C Ellaby

Position: Certification Officer

Signature:
(for printed version)

Date: 2010-08-02

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

sira CERTIFICATION

IECEx Certificate of Conformity

Certificate No.: IECEx SIR 10.0094X

Date of Issue: **2010-08-02** Issue No.: **0**

Manufacturer: **CMP Products Limited**
Glasshouse Street
St Peters
Newcastle upon Tyne
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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 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/ExTR10.0182/00

Quality Assessment Report:
GB/SIR/QAR07.0009/02

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Schedule

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

The PXFC range of barrier cable glands is intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures.

The PXFC ranges of 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 is filled with a sealing compound that effects a flameproof seal around the cable cores passing through it. 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 flexible conduit is effected by a combination of the front entry component assembly and a rear seal washer, olive and conduit nut. The olive is compressed onto the conduit when the body component and conduit nut are tightened and affects environmental sealing onto the conduit outer sheath.

For Design Options refer to EQUIPMENT (continued)

CONDITIONS OF CERTIFICATION: YES as shown below:

1	The cable gland ranges shall only be used where the temperature, at the point of entry, is in the following ranges Type PXFC ranges of cable glands: -60°C to +85°C compound filled. Type PXFC ranges of cable glands: -60°C to +85°C resin filled.
2	The PXFC cable entries are only suitable for fixed installations. When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent twisting and pulling.
3	The 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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EQUIPMENT(continued):

Design options

* 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 (the cable gland entry threads are to maintain compliance with the requirements of IEC 60079-1:2007 Clause 5.3 Tables 3 and 4 and clause C.2.2 as applicable)

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.

Gland size	Entry thread	Max no. of cores	Max dia. over cores (mm)
20/16	M20 x 1.5	34	12.6
20	M20 x 1.5	34	12.6
25	M25 x 1.5	80	17.5
32	M32 x 1.5	115	23.6
40	M40 x 1.5	185	30.0
50	M50 x 1.5	343	41.0
63	M63 x 1.5	585	53.7

The Manufacturer shall comply with the following conditions of manufacture:

1. When glands are manufactured with an entry thread that is one size up from nominal quoted gland size, these thread entries shall not be any larger than the largest thread size within that range.
2. When glands are manufactured with an entry thread that is one size up from nominal quoted gland size, the thread entry size will be marked on the gland.