



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 07.0054U issue No.:0 Certificate history:.....

Status: **Current**

Date of Issue: **2007-08-31** Page 1 of 3

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

Electrical Apparatus: **Type 781 Ranges of Breather/Drain plugs**
Optional accessory:

Type of Protection: **Increased safety and Dust**

Marking: **Ex e II / Ex tD A21 IP6X**

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

Position: Certification Officer

*Signature:
(for printed version)*

Date: **2007-08-31**

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



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Manufacturer: **CMP Products Limited**
Glasshouse Street
St Peters
Newcastle upon Tyne NE6 1BE
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'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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General 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/ExTR07.0064/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0009/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The **Type 781 Range** of Breather Drain Plugs in threadform sizes M20 x 1.5 and M25 x 1.5, intended for mounting to a threaded cable entry point on increased safety enclosures to permit the passage of the external atmosphere into and internal moisture out of the enclosure. Each device comprises a metallic hexagon bar with a cylindrical portion at one end and a male entry thread, fitted with an O-ring, at the other. The Breather Drain Plugs contain two through holes, which interface at right angles, one located on the cylindrical portion and other penetrating, axially to the hollow section beneath the threaded portion. The hollow central section contains a 47 µm porous disc manufactured from sintered bronze and pressed into place. Additionally the entry thread along its length has two axial slots 180° opposed to each other. The drainage channels through the body allow for the passage of moisture through the seal.

The 781 range of Breather Drain Plug may be fitted with a castellated lock-nut to allow mounting to enclosures via a clearance hole rather than a threaded entry point. Products can be marked with one or more of the following marking codes:

Ex e II / Ex tD A21 IP6X

See Annexe for general design options and schedule of limitations.

CONDITIONS OF CERTIFICATION: NO

Annexe to: IECEx SIR 07.0054U
Applicant: CMP Products Ltd
Apparatus: Type 781 range of Breather Drain Plugs



General Design Options

Thread form:

Alternative nearest equivalent male and female thread forms to the metric sizes listed above may be utilised from the following types listed

ET Conduit	-	BS 31:1940 (1979)
PG	-	DIN 40430:1971
BSPP	-	BS 2779:1973
BSPT	-	BS 21:1985
ISO	-	SO 7/1:1982
NPT	-	ANSI/ASME B1.20.1-1983
NPT	-	USAS B2.1.20.1-1968 (Metallic designs only)
NPSM	-	ANSI/ASME B1.20.1-1983
BSW	-	BS 84:1956 (Metallic designs only)

Alternative materials of manufacture:

Brass	-	BS EN 12164:1998/BS1400
Aluminium	-	BS EN 755 Part 6:1996/BS EN 1706 (Not Group I)
Mild Steel	-	BS EN 10088 Part 3:1995
Stainless Steel	-	BS EN 10088 Part 3:1995

The user shall be advised of the following special points for noting:

- 1 The Breather/Drain Plug shall be fitted to the lowest point on the bottom face of its associated enclosure.
- 2 The Breather/Drain Plug Shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -20°C to +60°C.