



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 13.0094X** issue No.:1

Status: **Current**

Date of Issue: **2014-09-17** Page 1 of 4

Certificate history:
Issue No. 1 (2014-9-17)
Issue No. 0 (2013-11-18)

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

Electrical Apparatus: **Type 737,747, 757, 767 and 797 Ranges of Adaptors, Reducers and Stopping Plugs**
Optional accessory:

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

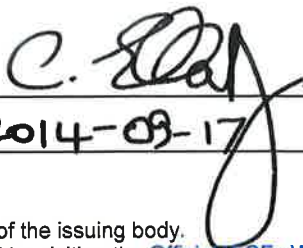
Marking: **Metallic versions** **Non-metallic versions**
Ex d I Mb / Ex e I Mb Ex e IIC Gb
Ex d IIC Gb / Ex e IIC Gb Ex ta IIIC Da
Ex ta IIIC Da
(Note: Ex d I Mb / Ex e I Mb does not apply to aluminium versions)

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

Position: Deputy Certification Manager

Signature:
(for printed version)

Date:


2014-09-17

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



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Manufacturer: **CMP Products Limited**
Glasshouse Street
St Peters
Newcastle upon Tyne NE6 1BE
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 Edition: 6.0	Explosive atmospheres - Part 0: 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/ExTR13.0298/00](#)

[GB/SIR/ExTR14.0201/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0009/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

This certificate covers different ranges of metallic and non-metallic adaptors, reducers and stopping plugs, see Certificate Annexe for a full description of all the products.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. Only one adapter or reducer shall be used per cable entry.
2. The adaptors, reducers and stopping plugs shall be assembled in such a way that their protrusion from an associated enclosure is not increased.
3. The interfaces between a male thread of an adaptor/reducer and an associated enclosure, between a female thread of an adaptor/reducer and a cable entry device, and between a stopping plug and an associated enclosure cannot be defined. Therefore it is the installer's responsibility to ensure that the appropriate ingress protection level is maintained at these interfaces.
4. Non-metallic adaptors, reducers and stopping plugs shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -20°C to +60°C.
5. The installer shall refer to the manufacturer's instructions for the action necessary regarding the electrostatic risk associated with non-metallic adaptors, reducers and stopping plugs.
6. Any cable gland used with the non-metallic adaptors and reducers shall be non-metallic and of the A2 type.



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

Issue 1 – this Issue introduced the following changes:	
1.	The introduction of 'Ex ta IIIC Da' marking for the Type 747 range of stopping plugs, this marking replaces the 'Ex tb IIIA Db' marking that previously applied. The marking is now common throughout the product ranges; therefore, the description was changed to recognise that there is now no need to detail the marking that is applicable to each product type.
2.	The Conditions of Certification were reviewed and revised, whilst most of the amendments are editorial, one of the conditions was removed and a new Condition of Manufacture took its place.
3.	The adaptor/reducer cross-reference chart was updated to reflect the option of adaptors and reducers providing up to a maximum of two standard size differences as recognised in the current certification.

Annexe to: IECEx SIR 13.0094X Issue 1
Applicant: CMP Products Limited
Apparatus: Type Ranges of Adaptors, Reducers and Stopping Plugs



Types 737 and 797 Ranges of Adaptors and Reducers

The **Type 737 Range** of Adaptors and Reducers are manufactured from metallic or non-metallic material and are used to convert an existing cable entry aperture to another thread form and/or size in an enclosure. They comprise a hollow hexagonal body, partly threaded from both ends, one end having a male thread and the other a female thread. Additionally, they may be used to convert an existing cable entry aperture to a different thread form and/or size. When structured as an adaptor the female thread is larger than the male thread, a maximum of two "standard" size differences is allowed. When structured as a reducer the female thread is smaller than the male thread. The adaptors and reducers may also be fitted with an optional O-ring seal.

The **Type 797 Range** of Adaptors with entry thread form sizes between M16 x 1.5 and M100 x 2.0, intended for mounting to a threaded entry point on either flameproof or increased safety enclosures. They are metallic in manufacture and are used to convert an existing cable entry aperture to the opposite male or female thread form. They comprise a hollow body partly threaded from both sides with either male threads or female threads at each end. Additionally, they may be used to convert an existing cable entry aperture to a different thread form and/or size. Thread combinations are such that a maximum of two 'standard' size differences is maintained. The male to male threaded adaptors may also be fitted with optional O-ring seals.

Design options for the Type 737 and 797 ranges:

Typical threadforms:

Note: Table below shows one 'standard' size difference; other combinations are possible as detailed above.

Adaptors		Reducers	
Female threadform	Male threadform	Female threadform	Male threadform
M20 x 1.5*	M16 x 1.5*	M16 x 1.5	M20 x 1.5
M25 x 1.5	M20 x 1.5	M20 x 1.5	M25 x 1.5
M32 x 1.5	M25 x 1.5	M25 x 1.5	M32 x 1.5
M40 x 1.5	M32 x 1.5	M32 x 1.5	M40 x 1.5
M50 x 1.5	M40 x 1.5	M40 x 1.5	M50 x 1.5
M63 x 1.5	M50 x 1.5	M50 x 1.5	M63 x 1.5
M75 x 1.5	M63 x 1.5	M63 x 1.5	M75 x 1.5
M90 x 2.0	M75 x 1.5	M75 x 1.5	M90 x 2.0
M100 x 2.0*	M90 x 2.0*	M90 x 2.0*	M100 x 2.0*

- i. The Type 737 is available in non-metallic and metallic sizes. Those marked * are for metallic sizes, only.
- ii. Intermediate sizes of threads within the range above providing the same or greater wall thickness eg. M80.

Alternative nearest equivalent male threadforms:

- ET Conduit - BS 31:1940 (1979)
- PG - DIN 40430:1971
- BSPP - BS 2779:1973
- BSPT - BS 21:1985
- ISO - ISO 7/1:1982 (metallic designs only)
- 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
- Glass reinforced flame retardant nylon (737 range only) (Not Group I)

Annexe to: IECEx SIR 13.0094X Issue 1
Applicant: CMP Products Limited
Apparatus: Type Ranges of Adaptors, Reducers and Stopping Plugs



Types 747, 757 and 767 Ranges of Stopping Plugs

The **Type 747 Range** of Stopping Plugs are manufactured from metallic or non-metallic material and comprise a cylindrical body with an external male thread along its length with the exception of a portion at one end. Each has a socket head recess to allow fitting and removal. The Stopping Plugs are available in two forms designated as either non-tamperproof or tamperproof by the manufacturer. When fitted into an enclosure, the socket head recess of the non-tamperproof version is accessible from the outside, whilst the socket head recess of the tamperproof version is only accessible from the inside.

The **Type 757 Range** of Stopping Plugs are manufactured from metallic or non-metallic material and comprise a cylindrical body with an external male thread along its length with the exception of a hexagonal head at one end. The body may also be fitted with an integral 'O' ring seal.

The **Type 767 Range** of Stopping Plugs are manufactured from metallic or non-metallic material and comprise a cylindrical body with an external male thread along its length with the exception of a domed head to one end. The face of the domed head contains a socket head recess to allow fitting and removal. The body may also be fitted with an integral 'O' ring seal.

Design options for the Type 747, 757 and 767 ranges of Stopping Plugs:

Typical threadforms:

M16 x 1.5 (metallic sizes only)	M20 x 1.5	M25 x 1.5	M32 x 1.5	M40 x 1.5
M50 x 1.5	M63 x 1.5	M75 x 1.5	M90 x 2.0	M100 x 2.0

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

ET Conduit	-	BS 31:1940 (1979)
PG	-	DIN 40430:1971
BSPP	-	BS 2779:1973
BSPT	-	BS 21:1985
ISO	-	ISO 7/1:1982 (metallic designs only)
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
Glass reinforced flame retardant nylon (Not Group I)		

Condition of manufacture

The Manufacturer shall comply with the following:

1. Non-metallic and aluminium adaptors, reducers and stopping plugs shall not bear any group I marking information.