



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 13ATEX1265X** Issue: **1**

4 Equipment: **Type 737, 747, 757, 767 and 797 Ranges of Adaptors, Reducers and Stopping Plugs**

5 Applicant: **CMP Products Limited**

6 Address: **Glasshouse Street  
St Peters  
Newcastle upon Tyne NE6 1BE  
United Kingdom**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:






EN 60079-0:2012      EN 60079-1:2007      EN 60079-7:2007      EN 60079-31:2009

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

Metallic versions (Note: IM2, Ex d I Mb / Ex e I Mb does not apply to aluminium versions)	Non-metallic versions
 I M2 and either or both of Ex d I Mb / Ex e I Mb	 II 2 G Ex e IIC Gb
and/or  II 2 G and either or both of Ex d IIC Gb / Ex e IIC Gb	and/or  II 1 D Ex ta IIIC Da
and/or  II 1 D Ex ta IIIC Da	

Project Number 70004713

C Ellaby  
Deputy Certification Manager

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

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

Reducers	
Female threadform	Male threadform
M16 x 1.5	M20 x 1.5
M20 x 1.5	M25 x 1.5
M25 x 1.5	M32 x 1.5
M32 x 1.5	M40 x 1.5
M40 x 1.5	M50 x 1.5
M50 x 1.5	M63 x 1.5
M63 x 1.5	M75 x 1.5
M75 x 1.5	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 e.g. M80.



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#### 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)		

#### 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



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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
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Mild Steel	-	BS EN 10088 Part 3:1995
Stainless Steel	-	BS EN 10088 Part 3:1995
Glass reinforced flame retardant nylon (Not Group I)		

#### Variation 1 - This variation introduced the following changes:

- i. 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.
- ii. The Special Conditions for Safe Use were reviewed and revised, whilst most of the amendments are editorial, one of the conditions was removed and a new Condition of Certification took its place.
- iii. 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.



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#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	18 November 2013	R30854A/00	The release of the prime certificate.
1	17 September 2014	R70004713A	The introduction of Variation 1.

#### 15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

- 15.1 Only one adaptor or reducer shall be used per cable entry.
- 15.2 The adaptors, reducers and stopping plugs shall be assembled in such a way that their protrusion from an associated enclosure is not increased.
- 15.3 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.
- 15.4 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.
- 15.5 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.
- 15.6 Any cable gland used with the non-metallic adaptors and reducers shall be non-metallic and of the A2 type.

#### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

#### 17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 Non-metallic and aluminium adaptors, reducers and stopping plugs shall not bear any group I marking information.

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# Certificate Annexe

Certificate Number: Sira 13ATEX1265X  
Equipment: Type 737, 747, 757, 767 and 797 Ranges of  
Adaptors, Reducers and Stopping Plugs  
Applicant: CMP Products Limited



## Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
GA077	1	04	14 Nov 13	ATEX adaptors, reducers and stopping plugs
GA133	1	03	08 Nov 13	ATEX non-metallic adaptors/reducers/ stopping plugs
GA134	1	02	14 Nov 13	Type 797 male/male & female/female adaptors
GA307	1	02	09 Oct 13	Type 737 & Type 797 adaptors (optional sizes)
SCH0070	1	05	09 Oct 13	Adaptor/reducer cross-reference chart

## Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
GA077	1 of 1	05	30 Jul 14	ATEX Adaptors, Reducers and Stopping Plugs
GA133	1 of 1	04	30 Jul 14	ATEX Non-Metallic Adaptors/Reducers/ Stopping Plugs
SCH0070	1 of 1	06	05 Sep 14	Adaptor / Reducer Cross-Reference Chart

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