IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SIM 15.0002X**

Certificate history:
Issue 0 (2015-07-10)

Status: **Current**

Issue No: 1

Date of Issue: 2020-06-29

Applicant: **CMP Products Ltd**
Glasshouse Street
St Peters
NEWCASTLE UPON TYNE
NE6 1 BS
United Kingdom

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

Optional accessory:

Type of Protection: **Flameproof "d", Increased Safety "e" and Dust Protection by Enclosure "t"**

Marking:

Metallic versions	**Non-metallic versions**
Ex db I Mb / Ex eb I Mb	Ex eb IIC Gb
Ex db IIC Gb / Ex eb IIC Gb	Ex ta IIIC Da
Ex ta IIIC Da	

(Note: Equipment marked with Group I are not available in aluminium

Approved for issue on behalf of the IECEx Certification Body: **John Ellis**

Position: **Senior Certification Officer**

Signature: (for printed version)

Date: 29 June 2020

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 www.iecex.com or use of this QR Code.

Certificate issued by:

Safety in Mines Testing and Research Station (Simtars)
2 Robert Smith Street, REDBANK QLD 4301
Australia

IECEx Certificate of Conformity

Certificate No.: **IECEx SIM 15.0002X**

Date of issue: 2020-06-29

Issue No: 1

Manufacturer: **CMP Products Limited**
Unit 36 Nelson Way
Nelson Park East
Cramlington
Northumberland, NE23 1WH
United Kingdom

Additional manufacturing locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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/CML/ExTR18.0299/00

Quality Assessment Report:

GB/CML/QAR19.0001/01

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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.

Refer Certificate Annex for a full description of all the products.

SPECIFIC CONDITIONS OF USE: YES as shown below:

For flameproof type "db" applications, only one adapter or reducer shall be used per cable entry.

The adaptors, reducers and stopping plugs shall be assembled in such a way that their protrusion from an associated enclosure is not increased.

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.

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.

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.

Any cable gland used with the non-metallic adaptors and reducers shall be non-metallic.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:
• Change in ExCB and replacement of both the ExTR and QAR referred to in issue 0 of this certificate
• Up-issue of IEC 60079-0 standard from Edition 6.0 to Edition 7
• Up-issue of IEC 60079-1 standard from Edition 6 to Edition 7
• Up-issue of IEC 60079-7 standard from Edition 4 to Edition 5.1
• Up-issue of IEC 60079-31 standard from Edition 1 to Edition 2
• Thread type specification updated to latest version of the identified standard.
• Material specification updated to latest version of the identified standard.
• The specified standard and alternate supplied material specifications have been expanded to be more specific with regard to material designation.
• Change to the wording for “Conditions of use”.
• Change to marking to include additional EPL with protection type
• ADAPTOR / REDUCER CROSS-REFERENCE CHART amended
• Drawing revision change

Annex:

IECEx SIM 15.0002X-1 CMP 737.747.757.767.797 Annex.pdf

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Annex associated with Issue 0

Manufacturer's documents:

Drawing No	Subject	Rev.	Date
GA077A	ADAPTORS,/REDUCERS/STOPPING PLUGS - SIMTARS	01	20/04/2015
GA307A	737 & TYPE 797 ADAPTORS (ORIGINAL SIZES) - SIMTARS	01	02/04/2015
GA133A	NON-METALLIC ADAPTORS/REDUCERS/STOPPING PLUGS - SIMTARS	00	15/04/2015
GA134A	TYPE 797 MALE/MALE & FEMALE/FEMALE ADAPTORS - SIMTARS	01	20/04/2015
SCH0070A	ADAPTOR/REDUCER CROSS REFERENCE - SIMTARS	01	20/04/2015

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 0-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 0-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.

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Safety in Mines Testing and Research Station (Simtars)
2 Robert Smith Street
REDBANK QLD 4301
Australia

Simtars

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 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 Bl.20.1-1983
NPT	-	USAS B2.1.20.1-1968 (metallic designs only)
NPSM	-	ANSI/ASME Bl.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

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 Bl.20.1-1983
NPT	-	USAS B2.1.20.1-1968 (metallic designs only)
NPSM	-	ANSI/ASME Bl.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)

Conditions of manufacture:

The Manufacturer shall comply with the following:

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

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Annex associated with Issue 1 (variations)

Manufacturer's documents:

Drawing No	Subject	Rev.	Date
GA077A	ADAPTORS, REDUCERS AND STOPPING PLUGS	02	01/06/2020
GA307A	TYPE 737 & TYPE 797 ADAPTORS (OPTIONAL SIZES)	02	28/05/2020
GA133A	NON-METALLIC ADAPTORS/REDUCERS/STOPPING PLUGS	02	28/05/2020
GA134A	TYPE 797 MALE/MALE & FEMALE/FEMALE ADAPTORS	02	28/05/2020
SCH0070A	ADAPTOR / REDUCER CROSS-REFERENCE CHART	02	28/05/2020
FI431	INSTALLATION INSTRUCTIONS FOR CMP STOPPER PLUG TYPES 747, 757 & 767	10	04/19
FI435	INSTALLATION INSTRUCTIONS FOR CMP ADAPTORS/REDUCERS TYPE 737 AND 797	8	04/19

Alternative nearest equivalent male and female thread forms to the metric sizes listed in Issue 0 above may be utilised from the following types listed:

Metric	-	BS3643:1981, ISO 965-1, ISO 965-3
ET (Conduit)	-	BS31:1940 (1979)
PG	-	DIN 40430:1971
BSPP	-	BS2779:1986
BSPT	-	BS21:1985
ISO	-	ISO 7/1:1994 (metallic designs only)
NPT	-	ANSI/ASME B1.20.1-2013
NPT	-	USAS B2.1-1968 (metallic designs only)
NPSM	-	ANSI/ASME B1.20.1-2013
BSW	-	BS 84:1956 (metallic designs only)

Alternative materials of manufacture:

Brass	-	BS EN 12164:2011/ BS EN 12168:2011
Aluminium	-	BS EN 573-3:2013 / BS EN 755-1-3:2008 / EN 1676:2010 (Not for use with Group I)
Mild steel	-	BS EN 10277-2:2008
Stainless steel	-	BS EN 10088-3:2014

Glass reinforced flame-retardant nylon (Not Group I)

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