

**GOVERNMENT APPROVED TEST LABORATORY**  
IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

**IA CERTIFICATE**

Date Issued: **19 Mar 2024**  
\*Expiry date: **26 Jan 2027**  
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**Issue: 2**

**Ex – Type Examination Certificate**

Certificate Number: **MS-XPL/21.0006 X**  
 Equipment: **Adaptors, Reducers, and Stopping Plugs**  
 Model / Type: **737 & 797 Ranges of Adaptors & Reducers and 747, 757 & 767 Ranges of Stopping Plugs**  
 Applicant: **CMP Products Limited**  
**Glasshouse Street**  
**St Peters**  
**Newcastle Upon Tyne**  
**NE6 1BS**  
**United Kingdom**  
 Manufacturer: **CMP Products Limited**  
 Serial No: All serial numbers imported between issued- and expire date and all serial numbers covered by a valid report or acceptable product certification mark.

Supplied by  
**CMP Products Limited**  
Identified by Inspection Authority number  
**MS-XPL/21.0006 X**

And as described in the Explolabs file number **XPL/21804/21.0006** is hereby certified "Explosion Protected (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of South African Standards.

- SANS 60079-0: 2019 Ed 6** Explosive atmospheres Part 0: Equipment — General requirements
- IEC 60079-0: 2017 Ed 7**
- SANS 60079-1: 2015 Ed 5** Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"
- IEC 60079-1: 2014 Ed 7**
- SANS 60079-7: 2023 Ed 4.1** Explosive atmospheres Part 7: Equipment protection by increased safety "e"
- IEC 60079-7: 2017 Ed 5.1**
- SANS 60079-31: 2014 Ed 2** Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"
- IEC 60079-31: 2013 Ed 2**

Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Group			
High	Mb Group I	Suitable for normal operation and severe operating conditions	Equipment de-energized when explosive atmosphere present	150°C
High	Gb Group II	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains functioning in zones 1 and 2	150°C
Very high	Da Group III	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains functioning in zones 20, 21 and 22	150°C



**Thread and Size Designations:**

Table 1 details the size reference and thread designation of the thread options covered. Table 2 details the products and their approved thread size ranges:

**Table 1**

<b>737 / 747 / 757 / 767 / 797</b>							
<b>Size Reference and Recognised Equivalent Threads</b>							
<b>Size Ref.</b>	<b>Metric</b>	<b>NPT</b>	<b>NPSM</b>	<b>BSPP</b>	<b>BSPT</b>	<b>PG DIN</b>	<b>E.T.</b>
10	M10 x 1.0	1/8	1/8	1/8	1/8	-	3/8
12	M12 x 1.5	1/4	1/4	1/4	1/4	PG7	1/2
16	M16 x 1.5	3/8	3/8	3/8	3/8	PG9	5/8
20	M20 x 1.5	1/2	1/2	1/2	1/2	PG110 PG13.5	3/4
25	M25 x 1.5	3/4	3/4	3/4	3/4	PG16 PG21	1
32	M32 x 1.5	1	1	1	1	-	1-1/4
40	M40 x 1.5	1-1/4	1-1/4	1-1/4	1-1/4	PG29	1-1/2
50	M50 x 1.5	1-1/2	1-1/2	1-1/2	1-1/2	PG36	2
63	M63 x 1.5	2	2	2	2	PG42	2-1/2
75	M75 x 1.5	2-1/2	2-1/2	2-1/2	2-1/2	PG48	3
90	M90 x 2.0	3	3	3	3	-	3-1/2
100	M100 x 2.0	3-1/2	3-1/2	3-1/2	3-1/2	-	4
115	M115 x 2.0	4	4	4	4	-	-
130	M130 x 2.0	5	5	5	5	-	-

**Table 2**

<b>Product Range</b>	<b>Metallic* Sizes</b>	
	<b>Male Thread (Size Ref.)</b>	<b>Female Thread (Size Ref.)</b>
737 Adaptor	12 to 130	12 to 130
737 Reducer	16 to 130	10 to 115
797	12 to 130	10 to 130
747 / 757 / 767	12 to 130	-
* Stainless Steel only, when any thread size 10 or 12 is required		
<b>Product Range</b>	<b>Non-metallic* Sizes</b>	
	<b>Male Thread (Size Ref.)</b>	<b>Female Thread (Size Ref.)</b>
737 Adaptor	20 to 75	20 to 90
737 Reducer	20 to 90	16 to 75
747 / 757 / 767	20 to 100	-
* Excluded from Group I applications		

**Conditions of Manufacture**

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. Non-metallic and aluminium adaptors, reducers and stopping plugs shall not bear any group I marking.

Based on the following documentation: IECEx CML 18.0177X. Issue 1.

## 2. INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

## 3. SPECIAL CONDITIONS FOR SAFE USE *(denoted by "X" after certificate number)*

The following conditions relate to safe installation and/or use of the equipment:

- i. For flameproof type "db" applications, only one adaptor or reducer shall be used per cable entry.
- ii. The adaptors, reducers and stopping plugs shall be assembled in such a way that their protrusion from an associated enclosure is not increased.
- iii. 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.
- iv. 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.
- v. 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.
- vi. Any cable gland used with the non-metallic adaptors and reducers shall be non-metallic.

## 4. SCHEDULE OF LIMITATIONS *(denoted by "U" after certificate number)*

None.

## 5. CONDITIONS OF CERTIFICATION

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

**6. MARKING**

The following (or similar) information have to be clearly and permanently marked on all units:

Supplier	: CMP Products Limited	
Manufacturer	: CMP Products Limited	
Equipment	: Adaptors, Reducers, and Stopping Plugs	
Model/Type	: 737 & 797 Ranges of Adaptors & Reducers and 747, 757 & 767 Ranges of Stopping Plugs	
Serial No.	: ---	
Ex Rating	: 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 mining code are not available in Aluminium)

IA Certificate No : MS-XPL/21.0006 X

*This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:*

- i) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
- ii) Any conditions mentioned in the above report;
- iii) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- v) A revision certificate replaces all previous version of the certificate.
- vi) \* - Only covers equipment Imported between the "Issued" and "Expire" dates.
- vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd

**Responsible Testing Officer:**



**D Maree**

**Technical Specialist**

**EXPLOLABS EXPLOSION PREVENTION SERVICES**

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