



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX SIM 17.0009U** Page 1 of 4 [Certificate history:](#)
Issue 0 (2018-01-29)

Status: **Current** Issue No: 1

Date of Issue: 2020-06-30

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

Ex Component: Type 787 Range of Right-Angled Adaptors

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof "d", Increased Safety "e", Dust ignition protection by enclosure "t"**

Marking: Ex db I Mb
Ex eb I Mb
Ex db IIC Gb
Ex eb IIC Gb
Ex ta IIIC Da

Approved for issue on behalf of the IECEx
Certification Body:

John Ellis

Position:

Senior Certification Officer

Signature:
(for printed version)

30 June 2020

Date:

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

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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/ExTR19.0052/00](#)

Quality Assessment Report:

[GB/CML/QAR19.0001/01](#)



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Ex Component(s) covered by this certificate is described below:

The Type 787 Range of Right-Angled Adaptors has a male thread at one end and a female thread at 90° to the male thread. They are intended to provide cable entry options where space is limited or to avoid cable damage. Additionally, they may be used to convert an existing cable entry aperture to a different thread form and/or size. Male thread forms are between M20x1.5 and M100x2.0 and combinations such that a maximum of one 'standard' size difference is maintained. The male thread may be fitted with an optional O-ring seal.

The type 787 range has been tested and assessed to achieve a minimum IP rating of IP64 by Sira. IP ratings exceeding IP64 have not been endorsed by CML but may be marked on the adaptors.

Refer Annex for Design Options.

SCHEDULE OF LIMITATIONS:

Refer Annex for Schedule of Limitations.



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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 marking to include additional EPL with protection type
- Change in manufacturer's address – remove Unit 03
- Minor drawing changes

Annex:

[IECEx SIM 17.0009U-1 CMP 787 Annex.pdf](#)



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Annex associated with Issue 0

Manufacturer's documents:

Drawing No	Subject	Rev.	Date
GA135A	TYPE 787 RIGHT ANGLE ADAPTORS SIMTARS	00	22/11/2017
SCH0363	MALE – MALE ADAPTOR / REDUCER CHART	00	13/02/2014

Ex Component(s)

Design Options:

Threadform:

Alternative nearest equivalent male and female threadforms 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	-	ISO 7/1:1982
NPT	-	ANSI/ASME B1.20.1-1983
NPT	-	USAS B2.1.20.1-1983
NPSM	-	ANSI/ASME B1.20.1-1983
BSW	-	BS 84:1956

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

Manufacturing methods:

	Male x Female metric thread size									
	M20 x M16	M25 x M20	M32 x M25	M40 x M32	M50 x M40	M63 x M50	M75 x M63	M80 x M75	M90 x M80	M100 x M90
Brass	M / C	M / C	M / C	M / C	M / C	M	M	M	M	M
Aluminium	M	M	M	M	M	M	M	M	M	M
Mild Steel	M / C	M / C	M / C	M / C	M / C	M	M	M	M	M
St. Steel	M / C	M / C	M / C	M / C	M / C	M	M	M	M	M

M - Machined C - Cast

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Schedule of Limitations:

The user/installer shall comply with the following:

The following thread forms and sizes of the machined versions of the Type 787 right-angle adaptors shall not be subjected to installation torques above the values in the tables below. No limitations apply to the cast versions of the Type 787 right-angle adaptors.

Male threads	Nm
M25	53
M32	53
M40	53
M90	166
M100	166

Female threads	Nm
M25	40
M32	40
M40	80
M90	115
M100	115

Annex associated with Issue 1 (variations)

Manufacturer's documents:

Drawing No	Subject	Rev.	Date
GA135A	TYPE 787 RIGHT ANGLE ADAPTORS	01	28/05/2020
FI432	ASSEMBLY FITTING INSTRUCTIONS FOR INSTALLATION OF CMP 900 ADAPTOR TYPE 787	6	04/19

Design Options:

Alternative materials of manufacture:

- Brass - BS EN 12164:2011/ BS EN 12168:2011 Grade CuZn39Pb3 (CW614N)
- Cast Brass - Not inferior to gb/t 5231-2012 hpb58-3 / astm38000 jis c3604
All brass manufactured component parts can be optionally nickel plated to a maximum of 0.008mm
- Aluminium - BS EN 573-3:2013 / BS EN 755-1-3:2008 Grade 6082 T6, 6262 T6 / BS EN 1676:2010 Grade LM25 TF
Not for use with Group I mining
Aluminium will contain less than 6% magnesium
- Mild steel - BS EN 10277-2:2008 Grades 220M07, 230M07 (EN1A) / 220M07Pb, 230M07Pb (EN1APb)
- Stainless steel - BS EN 10088-3:2014 Grades 316S11, 316S13, 316S31, 316S33, 316L

Manufacturing methods:

	Male x Female metric thread size									
	M20 x M16	M25 x M20	M32 x M25	M40 x M32	M50 x M40	M63 x M50	M75 x M63	M80 x M75	M90 x M80	M100 x M90
Brass	M / C	M / C	M / C	M / C	M / C	M	M	M	M	M
Aluminium	M	M	M	M	M	M	M	M	M	M
Mild Steel	M / C	M / C	M / C	M / C	M / C	M	M	M	M	M
St. Steel	M / C	M / C	M / C	M / C	M / C	M	M	M	M	M

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Threadform:

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

Metric	-	ISO 965-1, ISO 965-3 medium fit (6g) for external threads
ET (Conduit)	-	BS31:1940 (1979), Table A
PG	-	DIN 40430:1971
BSPP	-	BS2779:1986 class A full form for external threads
BSPT	-	BS21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
ISO	-	ISO 7/1:1994, gauging to ISO 7/2 clause 6.3 for external threads
NPT	-	ANSI/ASME B1.20.1-2013 gauging to clause 3.2 for external threads
NPT	-	USAS B2.1-1968, Gauging to clause 36 for external threads and - clause 37 for internal threads
NPSM	-	ANSI/ASME B1.20.1-2013 gauging to clause 6.4 for external threads

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