



UK Type Examination Certificate CML 21UKEX1243U Issue 0

United Kingdom Conformity Assessment

- 1 Component Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Component **Type 787 Range of Right-Angled Adaptors**
- 3 Manufacturer **CMP Products Ltd**
- 4 Address **Unit 36 Nelson Way, Nelson Park
East, Cramlington, NE23 1WH,
United Kingdom**
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Section 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this component 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 Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 The 'U' suffix after the certificate number indicates that the component is subject to limitations (affecting correct installation or safe use). These are specified in Section 14.
- 8 This UK Type Examination certificate relates only to the design and construction of the specified component. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2018

EN 60079-1:2014

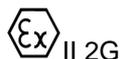
EN 60079-7:2015+A1:2018

EN 60079-31:2014

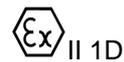
- 10 The equipment shall be marked with the following:



Ex db I Mb
Ex eb I Mb



Ex db IIC Gb
Ex eb IIC Gb



Ex ta IIIC Da



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11 Description

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.

Design Options

Materials of manufacture:

The standard material supplied is:

Brass	BS EN 12164:2011/ BS EN 12168:2011 Grade CuZn39Pb3 (CW614N) All brass manufactured component parts can be optionally nickel plated to a maximum of 0.008mm
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

Alternate materials are:

Stainless steel	BS EN 10088-3:2014 Grades 316S11, 316S13, 316S31, 316S33, 316L
Mild steel	BS EN 10277-2:2008 Grades 220M07, 230M07 (EN1A) / 220M07Pb, 230M07Pb (EN1APb)
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

The materials are manufactured in the following methods

	Male x Female metric thread size									
	M20xM16	M25xM20	M32xM25	M40xM32	M50xM40	M63xM50	M75xM63	M80xM75	M90xM80	M100xM90
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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Alternative entry component thread forms:

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

Notes:

- Sira 14ATEX1033U and IECEx SIR 14.0014U is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 14ATEX1033U and IECEx SIR 14.0014U.
- Where Sira 14ATEX1033U and/or IECEx SIR 14.0014U is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	25 June 2021	R13914AF_00	Issue of UKEX Prime Certificate

Note: Drawings that describe the component are listed in the Annex.

13 Conditions of Manufacture

None.

14 Schedule of Limitations

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

- 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 table below. No limitations apply to the cast versions of the Type 787 right-angle adaptors.

Male threads	Nm	Female threads	Nm
M25	53	M25	40
M32	53	M32	40
M40	53	M50	80
M90	166	M75	115
M100	166	M90	115

Certificate Annex

Certificate Number CML 21UKEX1243U
Component Type 787 Range of Right-Angled Adaptors
Manufacturer CMP Products Ltd



For drawings describing the equipment, refer to attached certificate CML 18ATEX1319U. In addition to the drawings listed on CML 18ATEX1319U, the following drawings include the additional marking required for this UK Type Examination certification:

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Drawing No	Sheets	Rev	Approved date	Title
GA135	1 of 1	04	25 June 2021	TYPE 787 RIGHT ANGLE ADAPTORS