

UK Type Examination Certificate CML 21UKEX1216U 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 783 and 793 Series of Y and T Shaped Dual Entry Adaptors**
- 3 Manufacturer **CMP Products Ltd.**
- 4 Address Unit 36 Nelson Way,
Nelson Park East,
Cramlington,
NE23 1WH, UK

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:

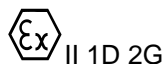
EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015+A1:2018
EN 60079-31:2014

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

Service temperature = -60°C to +200°C

Notes:

- i. The Adaptor may alternatively be marked with a single concept of protection or any combination thereof as detailed above.
- ii. The 'EPL' codes may be omitted from the marking string.





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11 Description

Type 783 series (Y) shaped, and 793 series (T) shaped dual entry angled Adaptors typically have a male thread at one end and two female threads at 120° and 90° respectively to the male thread at the others. They are intended to provide dual cable entry options for cables to enter their associated enclosure (as defined by their coding) where space is limited or to avoid cable damage. The male parallel thread may be fitted with an optional O-ring seal.

Design Options

- The bore of the adaptors may be reduced to enable the use of a smaller metric or NPT female thread form/size.
- Adaptor spigots can be manufactured with either male or female thread forms or combinations thereof, e.g.: Male x Male x Male, Female x Female x Female, Male x Female x Male.
- Adaptors not marked 'Ex db' may have the male and/or female threads manufactured with an alternative nearest equivalent recognised thread form/size to the metric thread sizes certified.
- Each size 783 and 793 Y and T Shaped Dual Entry Adaptor may be manufactured with differing thread forms and sizes from each other as detailed on Drawing No. GA969.

The Adaptors are determined by their 'size' designation and entry thread form/size:

Size designation	Standard Entry Thread forms		
	(M)	(F)	(F)
20 793 T	M20 x 1.5	M20 x 1.5	M20 x 1.5
20 793 T	½" NPT	½" NPT	½" NPT
20 783 Y	M20 x 1.5	M20 x 1.5	M20 x 1.5
20783 Y	½" NPT	½" NPT	½" NPT
25 793 T	M25 x 1.5	M25 x 1.5	M25 x 1.5
25 793 T	¾" NPT	¾" NPT	¾" NPT
32 793 T	M32 x 1.5	M32 x 1.5	M32 x 1.5
32 793 T	1" NPT	1" NPT	1" NPT
25 783 Y	M25 x 1.5	M25 x 1.5	M25 x 1.5
25 783 Y	¾" NPT	¾" NPT	¾" NPT
32 783 Y	M32 x 1.5	M32 x 1.5	M32 x 1.5
32 783 Y	1" NPT	1" NPT	1" NPT

Adaptors irrespective of thread form or size may have a maximum bore dimension corresponding to its thread size 'A', 'B' or 'C', e.g.:

Size designation	Standard Entry Threadforms		
	(M)	(F)	(F)
32 783 Y	1" NPT Bore 25.9mm max.	¾" NPT Bore 18.9mm max.	M20 x 1.5 Bore 14.7mm max.

M – Male thread form, F – female thread form



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Materials of manufacture

The 783, 793 Y and T Shaped Dual Entry Adaptors are manufactured in brass, stainless steel, mild steel or aluminium. All brass manufactured component parts can optionally be nickel-plated. All mild steel manufactured component parts can optionally be zinc plated.

Examples of alternative entry component thread forms (Not Ex db)

ET (Conduit)
PG
BSPP
BSPT
ISO
NPSM

Metric threads of all model ranges to be manufactured with a pitch between 0.7 mm and 2.0 mm with 1.5 mm as standard.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	11 Jun 2021	R13908B/00	Issue of the prime certificate.

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

13 Conditions of Manufacture

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

- i. Adaptors not marked 'Ex db' may be provided with, but not limited to, an alternative nearest equivalent recognised thread form/size to the metric thread, whilst maintaining a tolerance of fit, equal, or better than, a medium fit to ISO 965-1 & ISO 965-3.

For example:

- ET - BS 31:1940 (1979) Table 'A' external threads, Table 'B' internal threads.
- PG - DIN 40430:1971
- BSPP - BS2279:1986 class A full form 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 external threads, 6.2 internal threads.
- NPSM - ANSI/ASME B1.20.1:2013 gauging to clause 6.4.

14 Schedule of Limitations

None

Certificate Annex

Certificate Number CML 21UKEX1216U
Component Type 783 and 793 Series of Y and T Shaped Dual Entry Adaptors
Manufacturer CMP Products Ltd.



The following documents describe the equipment defined in this certificate:

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For all drawings, refer to attached certificate CML 18ATEX1306U, Issue 1.