



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 16ATEX1234U** Issue: **1**

4 Component: **Type 783 series (Y) shaped and 793 series (T) shaped dual entry Adaptors**

5 Applicant: **CMP Products Ltd**

6 Address: Glasshouse Street (These products may be manufactured at any CMP Facility listed on Quality Assurance Notification Sira 01ATEXM102 that has been audited for the manufacture of the type of protection listed)
St Peters
Newcastle upon Tyne NE6 1BS
UK

7 This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013 EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:



IM2
Ex db I Mb
Ex eb I Mb



II 1D 2G
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.

Project Number 70100293

N Jones
Certification Manager

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Sira Certification Service

Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

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13 **DESCRIPTION OF COMPONENT**

Type 783 series (Y) shaped and 793 series (T) shaped dual entry angled Adaptors. Typically have a male thread at one end and a two female threads 120° and 90° respectively to the male thread. They are intended to provide dual cable entry options for cables to enter associated enclosures to which they are fitted (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.

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

Manufacturers 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
20 783 Y	½" NPT	½" NPT	½" NPT

M – Male thread form **F** – female thread form

Design options

- The bore of the adaptors may be reduced to enable the use of a smaller metric or NPT female thread size (or sizes).
- Adaptor spigots can be manufactured with either male or female thread forms or combinations thereof: For example Male x Male x Male, Female x Female x Female, Male x Female x Male
- Adaptors not marked for the type of protection Ex db may have the male and/or female threaded spigots manufactured with an alternative nearest equivalent recognised thread type and size to the metric thread sizes certified.
- Metric threaded adaptors marked for the type of protection Ex db spigots can be manufactured with a thread pitch between 0.7mm and 2.0mm, with 1.5mm as standard.
- Adaptors may be manufactured from the following materials:
 - Cast brass NOT INFERIOR to ASTM38000 JIS C3604 /GB/T 5231-2012 grade HPb58-3
 - Brass to BS EN 12164:2011 / BS EN 12168:2011 Grade CuZn39Pb (CW614N)
 - Stainless steel to BS EN 10088-3:2014 Grades 316S11, 316S13, 316S31 or 316S33, 316L
 - Mild steel to BS EN 10277-2:2008 Grades 220M07, 230M07 (EN1A) / 220M07Pb, 230M07Pb (EN1APb)
- Brass adaptors may be nickel plated



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Variation 1 - This variation introduced the following changes:

- i. The introduction of the following Type 783 series (Y) shaped and 793 series (T) shaped dual entry angled Adaptors. Having all the same design options as the existing range of sizes.

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

Manufacturers size designation	Standard Entry Thread Forms		
	(M)	(F)	(F)
25 793 T	M25 x 1.5	M25 x 1.5	M25 x 1.5
25 793 T	3/4" NPT	3/4" NPT	3/4" 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	3/4" NPT	3/4" NPT	3/4" 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

M – Male thread form **F** – female thread form

- ii. The recognition of minor dimensional corrections to the design that do not affect the aspects of the product that are relevant to explosion safety.
- iii. To permit each size of '793 T' and '783 Y' shaped dual entry angled Adaptors, irrespective of thread size or form, to have a maximum bore dimension corresponding to its thread size 'A', 'B' or 'C' as detailed on drawing GA969.

e.g.

Manufacturers size designation	Standard Entry Thread Forms		
	(M)	(F)	(F)
32 783 Y	1" NPT (bore 25.9 mm max.)	3/4" NPT (bore 18.9 mm max.)	M20 x 1.5 (bore 14.7 mm max.)

- iv. To permit on each size of '793 T' and '783 Y' shaped dual entry angled Adaptors spigots to be manufactured with differing thread types and sizes from each other as detailed on drawing GA969.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	01 August 2016	R70084046A	The release of the prime certificate.
1	13 December 2016	R70100293A	The introduction of Variation 1.

15 SCHEDULE OF LIMITATIONS

None

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16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 **CONDITIONS OF MANUFACTURE**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

17.3 Adaptors not marked for the type of protection 'Ex db' may be provided with, but not limited to, an alternative nearest equivalent recognised thread type and 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.

Certificate Annexe



Certificate Number: **Sira 16ATEX1234U**
Component: **Type 783 series (Y) shaped and 793 series (T) shaped dual entry Adaptors**
Applicant: **CMP Products Ltd**

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
GA969	1 of 1	01	15 Jul 16	783 & 793 ADAPTORS
MP888	1 of 1	10	15 Jul 16	Tolerances parameters

Issue 1

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
GA969	1 of 1	02	30 Nov 16	783 & 793 ADAPTORS

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