



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: **IECEX SIR 16.0081U** issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2016-12-13)
Issue No. 0 (2016-8-1)

Date of Issue: **2016-12-13** Page 1 of 4

Applicant: **CMP Products Ltd**
Glasshouse Street
St Peters, Newcastle upon Tyne NE6 1BS
United Kingdom

Equipment: **Type 783 series (Y) shaped and 793 series (T) shaped dual entry Adaptors**
Optional accessory:

Type of Protection: **Flameproof, Increased Safety and Dust Protection by Enclosure**

Marking: Ex db I Mb Ex db IIC Gb
Ex eb I Mb Ex eb IIC Gb
Ex ta IIIC Da
Service temperature = -60°C to +200°C
Notes:
The Adaptor may alternatively be marked with a single concept of protection or any combination thereof as detailed above.
The 'EPL' codes may be omitted from the marking string

Approved for issue on behalf of the IECEX Certification Body: **N Jones**

Position: **Certification Manager**

Signature: *(for printed version)*

N. Jones

2016-12-13

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 the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom





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Manufacturer: **CMP Products Ltd**
Glasshouse Street
St Peters
Newcastle upon Tyne NE6 1BS
United Kingdom

Additional Manufacturing location(s):

These products may be manufactured at any CMP Facility that has been audited for the manufacture of the type of protection defined on this certificate; in addition, the site must also be listed on Quality Assessment Report GB/SIR/QAR07.0009/06 or its subsequent Issues.

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition: 5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/SIR/ExTR16.0200/00](#)

[GB/SIR/ExTR16.0313/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0009/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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.

Refer to the Annexe for additional information

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Refer to the annexe

Annexe to: IECEx SIR 16.0081U Issue 1

Applicant: CMP Products Ltd

Apparatus: Type 783 series (Y) shaped and 793 series (T) shaped dual entry Adaptors



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	1/2" NPT	1/2" NPT	1/2" NPT
20 783 Y	M20 x 1.5	M20 x 1.5	M20 x 1.5
20 783 Y	1/2" NPT	1/2" NPT	1/2" 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

Issue 1 – this Issue 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.

Date: 13 December 2016

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Sira Certification Service

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Annexe to: IECEx SIR 16.0081U Issue 1
Applicant: CMP Products Ltd
Apparatus: Type 783 series (Y) shaped and 793 series (T) shaped dual entry Adaptors



- 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.

Conditions Of Manufacture

- i. 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.