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

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx CML 18.0185U

Issue No: 0

Certificate history:
Issue No. 0 (2019-03-26)

Status: **Current**

Date of Issue: **2019-03-26**

Applicant: **CMP Products Ltd**
Unit 36 Nelson Way, Nelson Park East, Cramlington, Northumberland, NE23 1WH
United Kingdom

Ex Component: **Type 777 Range of Insulated 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 "db", Increased Safety "eb", Dust Ignition "ta"**

Marking:

Ex db IIC Gb

Ex eb IIC Gb

Ex ta IIIC Da

Approved for issue on behalf of the IECEx Certification Body: R C Marshall

Position: Certification Officer

Signature:
(for printed version)

Date: 2019-03-26

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.

Certificate issued by:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Manufacturer: **CMP Products Ltd**
Unit 36 Nelson Way, Nelson Park East, Cramlington, Northumberland, NE23 1WH
United Kingdom

Additional Manufacturing location(s):

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 Component 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 Ex Component 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - 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 Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/CML/ExTR19.0052/00

Quality Assessment Report:

GB/CML/QAR19.0001/00

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Schedule

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

The Type 777 Range of insulated adaptors consists of three parts: a metallic front portion that forms a threaded entry into the equipment, a non-metallic insulator and a metallic rear section that accommodates a gland. An optional variant has the metallic rear section replaced by a complete CMP cable gland which can be supplied separately.

Refer to Annex for full description and conditions of manufacture.

SCHEDULE OF LIMITATIONS:

Refer to Annex for schedule of limitations.

Annex:

IECEx CML 18.0185U Iss. 0 Certificate Annex.pdf

Annexe to:	**IECEx CML 18.0185U Iss. 0**
Applicant:	**CMP Products Ltd**
Apparatus:	**Type 777 Range of Insulated Adaptors**

Description

The Type 777 Range of insulated adaptors consists of three parts: a metallic front portion that forms a threaded entry into the equipment, a non-metallic insulator and a metallic rear section that accommodates a gland. An optional variant has the metallic rear section replaced by a complete CMP cable gland which can be supplied separately.

Note that these adaptors when used in flameproof enclosures shall not be used in conjunction with a blanking device, in addition, only one adaptor shall be installed in any one cable entry.

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

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

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
NPSM	ANSI/ASME B1.20.1-2013 gauging to clause 6.4 for external threads

Thread size combinations:

Available thread sizes								
Female	M20 x 1.5	M25 x 1.5	M32 x 1.5	M40 x 1.5	M50 x 1.5	M63 x 1.5	M75 x 1.5	M90 x 2
Male	M20 x 1.5	M25 x 1.5	M32 x 1.5	M40 x 1.5	M50 x 1.5	M63 x 1.5	M75 x 1.5	M90 x 2

Alternative combinations of male and female thread sizes can be used; however, the female thread size can only be the same or one size larger than the male thread size.

Unit 1, Newport Business Park
New Port Road
Ellesmere Port
CH65 4LZ

T +44 (0) 151 559 1160
E info@cmlex.com

www.cmlex.com

Company Reg No. 8554022 VAT No. GB163023642

Notes:

- Sira 10ATEX1057U and IECEx SIR 10.0027U is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 10ATEX1057U and IECEx SIR 10.0027U.
- Where Sira 10ATEX1057U and/or IECEx SIR 10.0027U 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.

Conditions of Manufacture

None.

Schedule of Limitations

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

i. The Type 777 range of insulated adaptors shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -60°C to +130°C.

ii. Based on the smallest male or female thread size used in the construction of the Type 777 Insulated Adaptor that they are installing, the following table shall be used by the installer to determine the maximum, applicable tightening torque and, when the Adaptor is being assembled and fitted into associated equipment, this torque shall not be exceeded.

Smallest male or female thread size	M20	M25	M32	M40	M50	M63	M75	M90
Maximum tightening torque (Nm)	40	55	65	80	100	115	140	180