



# 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](http://www.iecex.com)

Certificate No.: IECEx SIR 10.0148U issue No.:2

Status: **Current**

Certificate history:  
Issue No. 2 (2012-3-19)  
Issue No. 1 (2011-9-15)  
Issue No. 0 (2011-4-18)

Date of Issue: **2012-03-19** Page 1 of 5

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

Electrical Apparatus: **Type 780 Union Adaptors/Reducers**  
Optional accessory:

Type of Protection: **Flameproof, increased safety, dust ignition protection**

Marking: Ex d IIC Gb  
Ex e IIC Gb  
Ex d I Mb  
Ex e I Mb  
Ex ta IIIC Da IP6X

Approved for issue on behalf of the IECEx Certification Body: D R Stubbings

Position: Certification Manager

Signature:  
(for printed version)

Date: 2012-03-19

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**  
Rake Lane  
Eccleston  
Chester  
CH4 9JN  
United Kingdom

**sira**  
CERTIFICATION



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

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 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:

<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> Edition: 4	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/ExTR11.0068/00](#)

[GB/SIR/ExTR11.0232/00](#)

[GB/SIR/ExTR11.0306/00](#)

#### Quality Assessment Report:

[GB/SIR/QAR07.0009/02](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Type 780 Union is metallic and is intended for in-line connection of male to female, male to male or female to female threads when conventional adaptors / reducers are impractical. Additionally they may be used to convert an existing cable entry aperture to a different threadform and/or size. Each union comprises two parts held together with a nut. The interface between the two parts is a serrated face which forms a flamepath when the nut is tightened. The union is designed such that connection at both ends is achieved without twisting the cable.

#### Schedule of Limitations:

- 1 Only one Union adaptor or reducer is to be used with any single cable entry on the associated equipment.
- 2 The interfaces between the male thread of the Union adaptor/reducer and an associated enclosure and between the female thread of the union adaptor/reducer and the cable entry device cannot be defined. Therefore it is the installer's responsibility to ensure that the appropriate Ingress protection level is maintained at these interfaces.
- 3 The PX78\* unions shall only be fitted to enclosures where the temperature, at the point of mounting does not exceed -60°C to +85°C.

CONDITIONS OF CERTIFICATION: NO



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## EQUIPMENT(continued):

### Available sizes:

Threadforms are between M16 to M100 (or equivalent) and maximum thread change is one standard thread size.

### Design Options

#### PX78\* Unions

The PX78\* metallic union is a barrier seal version of the union and has an alternative thread entry internal arrangement, which includes an addition compound tube, resin dam and compression washer. The compound tube is filled with a sealing compound (EP2122 compound or RapidEx resin) that provides a flameproof seal around the cable cores passing through it.

#### Type 784 and PX784 Unions

The 784 and PX784 metallic unions are 45° angled union adaptors and have an alternative immediate angled section.

#### Type 789 and PX789 Unions

The 789 and PX789 metallic unions are 90° angled union adaptors and have an alternative immediate angled section.

#### Entry Thread options:

Metric to BS 3643:1981  
ET to BS 31: 1940  
PG to DIN 40430:1971  
BSPP to BS 2779:1973  
BSPT to BS 21:1985  
ISO to ISO 7/1:1982  
NPT to USAS B2.1-1968  
NPT to ANSI/ASME B1.20.1-1983  
NPSM to ANSI/ASME B1.20.1-1983  
BSW to BS84:1956

#### Material options for metallic parts:

Brass (standard)  
Mild steel  
Stainless steel  
Aluminium with a magnesium content less than 6% by weight (Not group I)



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

**Issue 1** This Issue introduced the following change:

1. The introduction of PX780 type union. The marking and the schedule of limitations has been amended accordingly.

**Issue 2** This Issue introduced the following change:

1. The introduction of the following new models:  
Type 784 45° union    Type PX784 45° union    Type 789 45° union    Type PX789 45° union
2. To allow the limiting temperature of the PX78\* versions of union adaptor to be lowered to -60°C from -20°C