



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX CML 18.0190X** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2019-03-29)

Status: **Current** Issue No: 1

Date of Issue: 2020-03-06

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

Equipment: **Type 780/PX780 Unions**

Optional accessory:

Type of Protection: **Flameproof "db", Increased Safety "eb", Dust Ignition "ta"**

Marking: Ex eb I Mb\*  
Ex db I Mb\*  
Ex eb IIC Gb  
Ex db IIC Gb  
Ex ta IIIC Da

Ta: -60°C to 85°C/-60°C to 200°C (See description for details)

*\*Aluminium alloy is not acceptable for Group I applications*

Approved for issue on behalf of the IECEx  
Certification Body:

**R C Marshall**

Position:

**Certification Officer**

Signature:  
(for printed version)

Date:

**2020-03-06**

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Eurofins E&E CML Limited**  
**Unit 1, Newport Business Park**  
**New Port Road**  
**Ellesmere Port, CH65 4LZ**  
**United Kingdom**





# IECEX Certificate of Conformity

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Date of issue: 2020-03-06

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

Additional manufacturing locations:

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 equipment 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** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

[GB/CML/ExTR19.0038/00](#)

[GB/CML/ExTR19.0239/00](#)

[GB/CML/ExTR20.0063/00](#)

Quality Assessment Report:

[GB/CML/QAR19.0001/00](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

### **Type 780 Unions**

The Type 780/PX780 Unions are metallic and are intended for in-line connection of male to female, male to male or female to female threads when conventional adaptors/reducers are impractical.

### **PX780 Unions**

The PX78\* Unions are a barrier seal version of the union and have an alternative thread entry internal arrangement, which includes an additional compound tube, resin dam and compression washer.

Refer to Annex for full description and conditions of manufacture.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

Refer to Annex for specific conditions of use.



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

This issue introduced the following changes:

1. The introduction of a universal certificate schedule drawing detailing critical parts.

### **Annex:**

[IECEx CML 18.0190X Iss. 1 Certificate Annex\\_1.pdf](#)

**Annexe to:** IECEx CML 18.0190X Issue 1  
**Applicant:** CMP Products Ltd  
**Apparatus:** Type 780/PX780 Unions



## Description

The Type 780/PX780 Unions are metallic and are 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 unions are designed such that connection at both ends is achieved without twisting the cable.

### PX780 Unions

The PX78\* Unions are a barrier seal version of the union and have an alternative thread entry internal arrangement, which includes an additional compound tube, resin dam and compression washer. The compound tube is filled with a sealing compound that provides a flameproof seal around the cable cores passing through it.

### Available sizes:

Threadforms are between M20 to M100 (or equivalent per the list below).

Rear thread 'B' for any given size is permitted to be a maximum of one step in thread size larger than front thread 'C'. There is no limitation on how small rear thread size 'B' is in comparison to front thread 'C'.

### Materials of manufacture:

The Type 780/PX780 Unions are manufactured in brass, aluminium, mild steel and stainless steel. All brass manufactured parts can be optionally nickel plated. All mild steel manufactured parts can be optionally zinc plated.

### Examples of alternative threadforms:

Metric  
ET (Conduit)  
PG  
BSPP  
BSPT  
ISO  
NPT  
NPSM

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

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**Note:**

- ITS 17ATEX102498X is superseded by CML 18ATEX1327X.
- The product covered by Issue 0 of CML 18ATEX1327X remains identical to that previously covered by the certificates above.
- Where ITS 17ATEX102498X is specified in other product certification, or other technical specifications, this certificate shall be used in its place; updating of the other product certificate or technical specification is not required.

**Conditions of Manufacture**

None.

**Specific Conditions of Use**

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

- i. The PX780 unions shall only be fitted to enclosures where the temperature, at the point of mounting, does not exceed -60°C to +85°C.
- ii. 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.