



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX CML 18.0186U** Page 1 of 4 [Certificate history:](#)
Issue 0 (2019-03-29)

Status: **Current** Issue No: 1

Date of Issue: 2020-03-09

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

Ex Component: Type 784, 789/PX784, PX789 Unions

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 eb I Mb*
Ex db I Mb*
Ex eb IIC Gb
Ex db IIC Gb
Ex tx 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:

2020-03-09

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 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

Certificate No.: **IECEX CML 18.0186U**

Page 2 of 4

Date of issue: 2020-03-09

Issue No: 1

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/ExTR20.0066/00](#)

Quality Assessment Report:

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



IECEx Certificate of Conformity

Certificate No.: **IECEx CML 18.0186U**

Page 3 of 4

Date of issue: 2020-03-09

Issue No: 1

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

The Type 784, 789/PX784 & PX789 Unions are intended for in-line connection of male to female, male to male or female to 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 being a serrated face which forms a flamepath when the nut is fully tightened. The union is designed such that connection at both ends is achieved without twist the associated cable.

Refer to Annex for full description.

SCHEDULE OF LIMITATIONS:

Refer to Annex for schedule of limitations.



IECEX Certificate of Conformity

Certificate No.: **IECEX CML 18.0186U**

Page 4 of 4

Date of issue: 2020-03-09

Issue No: 1

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.
2. The amendment of text and formatting for consistency that has no effect on the technical content.

Annex:

[IECEX CML 18.0186U Iss. 1 Certificate Annex.pdf](#)

Annexe to: IECEx CML 18.0186U Issue 1
Applicant: CMP Products Ltd
Apparatus: Type 784, 789/PX784 & PX789 Unions



Description

The Type 784, 789/PX784 & PX789 Unions are manufactured from metallic materials 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 being a serrated face which forms a flamepath when the nut is fully tightened. The union is designed such that connection at both ends is achieved without twisting the associated cable.

Design Options:

Type 784 & PX784 Unions

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

Type 789 & PX789 Unions

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

Type 784 Unions

The Type 784 Unions 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 thread form 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. Ambient -60°C to +200°C.

PX789 Unions

The PX789 Unions are a barrier seal version of the union and have 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 that provides a flameproof seal around the cable cores passing through it. When the barrier seal is used the ambient is restricted to -60°C to +85°C.

Available sizes

Thread forms 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'.

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

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

www.cmllex.com

Company Reg No. 8554022 VAT No. GB163023642





Materials of manufacture:

The Type 784, 789/PX784 & PX789 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.

Note:

- IECEx SIR 10.0148U and IECEx ITS 17.0049U are superseded by IECEx CML 18.0186U.
- The product covered by Issue 0 of IECEx CML 18.0186U remains identical to that previously covered by the certificates above.
- Where the above certificates are specified in other product certification, or other technical specifications IECEx CML 18.0186U 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 components.

- i. 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.
- 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.