



# 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)

### Ex COMPONENT CERTIFICATE

Certificate No.: IECEx ITS 17.0049U Issue No: 0 Certificate history:  
Issue No. 0 (2018-04-13)

Status: **Current** Page 1 of 3

Date of Issue: **2018-04-13**

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

Ex Component: **Metallic 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, Increased safety and Dust by Enclosure**

Marking:

Ex eb I Mb\* / Ex eb IIC Gb  
Ex db I Mb\* / Ex db IIC Gb  
Ex ta IIIC Da  
IP66  
\*Aluminium alloy is not acceptable for Group I applications  
-60°C to +85°C/-60°C to +200°C (See description for details)

Approved for issue on behalf of the IECEx  
Certification Body:

P Moss

Position:

Certification officer

Signature:  
(for printed version)

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:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road,  
Leatherhead,  
Surrey, KT22 7SA  
United Kingdom





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Date of Issue: **2018-04-13** Page 2 of 3  
Manufacturer: **CMP Products**  
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** 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 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/ITS/ExTR18.0020/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0009/07](#)



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Certificate No: IECEx ITS 17.0049U

Issue No: 0

Date of Issue: 2018-04-13

Page 3 of 3

## Schedule

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

### Design options:

**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.

**Type 78\* Unions** are 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 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 flame path 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.

**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. When the barrier seal is used the ambient is restricted to -60°C to +85°C.

### SCHEDULE OF LIMITATIONS:

- 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.
- 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.

### Annex:

[SFT-IECEX-OP-19f Annex for IECEx Certificate of Conformity IECEx ITS 17.0049U.pdf](#)



## Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 17.0049U	Issue No. 0
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
TYPE PX784 & PX789 BARRIER UNION	GA346	01	18/01/2018
TYPE 784 & 789 UNION	GA345	01	18/01/2018
INSTALLATION INSTRUCTIONS FOR UNION TYPE 784	FI556	0	01/2018
INSTALLATION INSTRUCTIONS FOR UNION TYPE 789	FI557	0	01/2018
INSTALLATION INSTRUCTIONS FOR UNION TYPE PX789 PX784	FI559	0	01/2018
INSTALLATION INSTRUCTIONS FOR UNION TYPE PX789REX & PX784REX	FI564	0	01/2018