



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

Certificate No.: IECEx ITS 17.0048X

Issue No: 0

Certificate history:

Issue No. 0 (2018-04-13)

Status: **Current**

Page 1 of 4

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

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

Equipment: **780 / PX780**

Optional accessory:

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

P Moss

Certification Body:

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 7SB
United Kingdom





IECEX Certificate of Conformity

Certificate No: IECEX ITS 17.0048X

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Page 2 of 4

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 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 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:

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 : 2017 Edition:5.1	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/ITS/ExTR18.0020/00](#)

Quality Assessment Report:

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



IECEX Certificate of Conformity

Certificate No: IECEx ITS 17.0048X

Issue No: 0

Date of Issue: 2018-04-13

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Design options:

780 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 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.

PX780 Unions

The PX780 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.

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'.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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.
- 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.



IECEX Certificate of Conformity

Certificate No: IECEx ITS 17.0048X

Issue No: 0

Date of Issue: 2018-04-13

Page 4 of 4

EQUIPMENT (continued):

Materials of manufacture:

- Brass to BS EN 12164:2011 / BS EN 12168:2011 Grade CuZn39Pb3 (CW614N)
- Mild Steel to BS EN 10277-2:2008 Grades 220M07, 230M07 (EN1A) / 220M07Pb, 230M07Pb (EN1APb)
- Stainless Steel to BS EN 10088-3:2014 GRADES 316S11, 316S13, 316S31, 316S33, 316L
- Aluminium to BS EN 573-3:2013 / BS EN 755-1-3:2008 Grade 6082 T6, 6262 T6
- BS EN 1706:2010/ BS EN 1676:2010 Grade LM25 TF (Aluminium alloy is not acceptable for Group I applications)

Thread form options:

Metric ISO 965-1, ISO965-3 medium fit (6g) for external threads

ET(Conduit) BS 31:1940 (1979), Table A

PG DIN 40430:1971

BSPP BS 2779:1986 class A full form for external threads

BSPT BS 21:1985 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 B1.20.1-1983 gauging to clause 8.1 for external threads

NPSM ANSI/ASME B1.20.1-1983 gauging to clause 9 for external threads

Annex:

[SFT-IECEX-OP-19f Annex for IECEx Certificate of Conformity IECEx ITS 17.0048X.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 17.0048X	Issue No. 0
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
TYPE PX780 UNION	GA324	01	17/01/2018
TYPE 780 UNION	GA297	01	17/01/2018
INSTALLATION INSTRUCTIONS FOR UNION TYPE 780	FI555	0	01/2018
INSTALLATION INSTRUCTIONS FOR UNION TYPE PX780	FI558	0	01/2018
INSTALLATION INSTRUCTIONS FOR UNION TYPE PX780REX	FI563	0	01/2018