

# EU-Type Examination Certificate



1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
3. **EU-Type Examination Certificate Number: ITS17ATEX102498X Issue 0**
4. **Product:** Type 780/PX780 Unions
5. **Manufacturer:** CMP Products
6. **Address:** 36 Nelson Way, Nelson Park East, Cramlington, Northumberland, NE23 1WH, United Kingdom
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
  
The examination and test results are recorded in confidential Intertek Report 103160918CHE-002 dated: April 2018
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 + A11:2013, EN 60079-1:2014, EN 60079-7:2015 and EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe Use specified in the Schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



I M2 Ex eb I Mb/Ex db I Mb\*  
II 2G Ex eb IIC Gb/Ex db IIC Gb  
II 1D 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)

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**P Moss**  
Certification Officer  
13<sup>th</sup> April 2018



## SCHEDULE

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### 13. Description of Equipment or Protective System

#### Design Options:

**Type 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'.

- 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

#### 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).

### 14. Report Number

Intertek Report Ref: 103160918CHE-002 Dated: April 2018

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## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS17ATEX102498X Issue 0

#### 15. Special Conditions of Certification

##### (a). Specific Conditions of Safe Use

- 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.

##### (b). Conditions of Manufacture

- None

#### 16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: 103160918CHE-002 dated: April 2018

#### 17. Drawings and 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	F1555	0	01/2018
INSTALLATION INSTRUCTIONS FOR UNION TYPE PX780	F1558	0	01/2018
INSTALLATION INSTRUCTIONS FOR UNION TYPE PX780REX	F1563	0	01/2018

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