



1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
3. **EU-Type Examination Certificate Number: ITS17ATEX102499U Issue 0**
4. **Product:** Type 78\*/PX78\* 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 the product 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. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment of protective system.
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)

**Intertek Testing & Certification Limited**  
**Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SA**  
**Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977**  
[www.intertek.com](http://www.intertek.com)

**Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.**

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



## SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS17ATEX102499U Issue 0

### 13. Description of Component

#### 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 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.

##### **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.

##### **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



