



## EU Type Examination Certificate CML 18ATEX1329U Issue 1

- 1 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **Type 784, 789/PX784 & PX789 Unions**
- 3 Manufacturer **CMP Products Ltd.**
- 4 Address **Unit 36 Nelson Way,  
Nelson Park East,  
Cramlington, NE23 1WH,  
United Kingdom**
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 The 'U' suffix after the certificate number indicates that the component is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015 +A1:2018

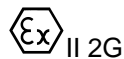
EN 60079-31:2014

- 10 The equipment shall be marked with the following:



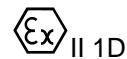
Ex eb I Mb\*

Ex db I Mb\*



Ex eb IIC Gb

Ex db IIC Gb



Ex ta 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



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## **11 Description**

The Type 784, 789/PX784 & PX789 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 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.

### **Type 784 and PX784 Unions**

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

### **Type 789 and PX789 Unions**

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

### **PX784 & PX789 Unions**

The PX784 Unions are a barrier seal version of the union and have an alternative thread entry internal arrangement, which includes an additional 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.

### **Available sizes**

Threadforms are between M20 to M100 (or equivalent).

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'.

### **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



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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:**

- Sira 10ATEX1306U and ITS 17ATEX102499U are superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 10ATEX1306U and ITS 17ATEX102499U.
- Where Sira 10ATEX1306U and ITS 17ATEX102499U are specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

**Variation 1**

This variation introduces the following modifications:

- The introduction of a universal certificate schedule drawing detailing critical parts.
- The amendment of text and formatting for consistency that has no effect on the technical content.

**12 Certificate history and evaluation reports**

Issue	Date	Associated report	Notes
0	29 Mar 2019	R12060F/00	Issue of Prime Certificate.
1	09 Mar 2020	R12735F/00 R12922A	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

**13 Conditions of Manufacture**

None.

**14 Schedule of Limitations**

The following conditions relate to safe installation and/or use of the equipment.

- 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.

## Certificate Annex

**Certificate Number** CML 18ATEX1329U  
**Equipment** Type 784, 789/PX784 & PX789 Unions  
**Manufacturer** CMP Products Ltd



The following documents describe the equipment or component defined in this certificate:

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
GA345	1 of 1	02	29 Mar 2019	Type 784 & 789 Union
GA346	1 of 1	02	29 Mar 2019	Type PX784 & PX789 Barrier Union

### Issue 1

Drawing No	Sheets	Rev	Approved date	Title
GA345	1 of 1	03	09 Mar 2020	Type 784 & 789 Union
GA346	1 of 1	03	09 Mar 2020	Type PX784 & PX789 Barrier Union