

## UK Type Examination Certificate CML 21UKEX1242U Issue 0

### United Kingdom Conformity Assessment

- 1 Component Intended for use in Potentially Explosive Atmospheres  
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 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 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Section 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.  
  
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 limitations (affecting correct installation or safe use). These are specified in Section 14.
- 8 This UK Type Examination certificate relates only to the design and construction of the specified component. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 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

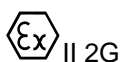
EN 60079-31:2014

- 10 The equipment shall be marked with the following:



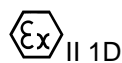
Ex eb I Mb\*

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 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.

## **12 Certificate history and evaluation reports**

<b>Issue</b>	<b>Date</b>	<b>Associated report</b>	<b>Notes</b>
0	25 June 2021	R13914AE_00	Issue of UKEX Prime Certificate

Note: Drawings that describe the 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 21UKEX1242U  
**Component** Type 784, 789/PX784 & PX789 Unions  
**Manufacturer** CMP Products Ltd



For drawings describing the equipment, refer to attached certificate CML 18ATEX1329U. In addition to the drawings listed on CML 18ATEX1329U, the following drawings include the additional marking required for this UK Type Examination certification:

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Drawing No	Sheets	Rev	Approved date	Title
GA345	1 of 1	04	25 June 2021	Type 784 & 789 Union
GA346	1 of 1	04	25 June 2021	Type PX784 & PX789 Barrier Union