



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 10ATEX1306U** Issue: **2**

4 Component: **Type 780 Union Adaptors/Reducers**

5 Applicant: **CMP Products Ltd**

6 Address: **Glasshouse Street  
St Peters  
Newcastle upon Tyne NE6 1BS  
UK**

7 This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component 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 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2009      EN 60079-1:2007      EN 60079-7:2007      EN 60079-31:2009

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:



II 2GD  
I M2  
Ex d IIC Gb/Ex e IIC Gb  
Ex d I Mb/Ex e I Mb  
Ex ta IIIC Da IP6X

D R Stubbings  
Certification Manager

Project Number 26526

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**Sira Certification Service**

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## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

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#### 13 DESCRIPTION OF COMPONENT

The Type 780 metallic union 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 threadform 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.

#### Available sizes:

Threadforms are between M16 to M100 (or equivalent) and maximum thread change is one standard thread size.

#### Design Options

##### PX78\* Unions

The PX78\* metallic unions are barrier seal versions of union adaptors and have 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.

##### 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.

#### Entry Thread options:

Metric to BS 3643:1981  
ET to BS 31: 1940  
PG to DIN 40430:1971  
BSPP to BS 2779:1973  
BSPT to BS 21:1985  
ISO to ISO 7/1:1982  
NPT to USAS B2.1-1968  
NPT to ANSI/ASME B1.20.1-1983  
NPSM to ANSI/ASME B1.20.1-1983  
BSW to BS84:1956

#### Material options for metallic parts:

Brass (standard)  
Mild steel  
Stainless steel  
Aluminium with a magnesium content less than 6% by weight (Not group I)

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## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

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**Variation 1:** This variation introduced the following changes:

- i. The introduction of a new model, PX780 type unions. The marking and special conditions for safe use have been amended accordingly.

**Variation 2:** This variation introduced the following changes:

- i. The introduction of the following new models:
  - Type 784, 45° union adaptor.
  - Type 789, 90° union adaptor.
  - Type PX784, 45° barrier union adaptor.
  - Type PX789, 90° barrier union adaptor.
- ii. The limiting temperature of the PX78\* versions of union adaptor was allowed to be lowered to -60°C from -20°C

## 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Sira Reports and Certificate History

| Issue | Date          | Report no. | Comment                           |
|-------|---------------|------------|-----------------------------------|
| 0     | 14 April 2011 | R23363A/00 | The release of prime certificate. |
| 1     | 15 Sept 2011  | R25244A/00 | The introduction of Variation 1.  |
| 2     | 12 Mar 2012   | R26526A/00 | The introduction of Variation 2.  |

## 15 SPECIAL CONDITIONS FOR SAFE USE

- 15.1 Only one Union adaptor or reducer is to be used with any single cable entry on the associated equipment.
- 15.2 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.
- 15.3 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.

## 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

## 17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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# Certificate Annexe

Certificate Number: Sira 10ATEX1306U  
Component: Type 780 Adaptors/Reducers  
Applicant: CMP Products Ltd



## Issue 0

| Number | Sheet  | Rev. | Date (sira stamp) | Description    |
|--------|--------|------|-------------------|----------------|
| GA297  | 1 of 1 | 00   | 28 Jan 11         | TYPE 780 UNION |

## Issue 1

| Number | Sheet  | Rev. | Date (sira stamp) | Description      |
|--------|--------|------|-------------------|------------------|
| GA324  | 1 of 1 | 00   | 22 Aug 11         | TYPE PX780 UNION |

## Issue 2

| Number | Sheet  | Rev. | Date (sira stamp) | Description              |
|--------|--------|------|-------------------|--------------------------|
| GA345  | 1 of 1 | 00   | 29 Feb 12         | Type 784 & 789 Union     |
| GA346  | 1 of 1 | 00   | 29 Feb 12         | Type PX784 & PX789 Union |

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