



EU Type Examination Certificate CML 18ATEX1327X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Type 780/PX780 Unions**
- 3 Manufacturer **CMP Products Ltd**
- 4 Address **Unit 36 Nelson Way, Nelson Park
East, Cramlington, NE23 1WH,
United Kingdom**
- 5 The equipment 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 equipment 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.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment 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

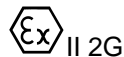
EN 60079-31:2014

- 10 The equipment shall be marked with the following:



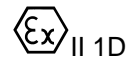
Ex eb I Mb*

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 780/PX780 Unions are metallic and 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 is a serrated face which forms a flamepath when the nut is tightened. The unions are designed such that connection at both ends is achieved without twisting the cable.

PX780 Unions

The PX78* 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 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'.

Materials of manufacture:

The Type 780/PX780 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

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:

- ITS 17ATEX102498X is superseded by CML 18ATEX1327X.
- The product covered by Issue 0 of CML 18ATEX1327X remains identical to that previously covered by the certificates above.
- Where ITS 17ATEX102498X is specified in other product certification, or other technical specifications, this certificate shall be used in its place; updating of the other product certificate or technical specification is not required.



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Variation 1

This variation introduces the following modifications:

- i The introduction of a universal certificate schedule drawing detailing critical parts.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	28 Nov 2019	R12060F/00	Issue of Prime Certificate
1	06 Mar 2020	R12735E/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 Specific Conditions of Use (Special Conditions)

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

- i. The PX780 unions shall only be fitted to enclosures where the temperature, at the point of mounting, does not exceed the temperature range -60°C to +85°C.
- ii. 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 18ATEX1327X
Equipment Type 780/PX780 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
GA297	1 of 1	02	29 Mar 2019	Type 780 Union
GA324	1 of 1	02	29 Mar 2019	Type PX780 Union

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
GA297	1 of 1	03	06 Mar 2020	Type 780 Union
GA324	1 of 1	03	06 Mar 2020	Type PX780 Union