EU Type Examination Certificate CML 25ATEX1170X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **Type 784, 789 / PX784, PX789 Unions**

3 Manufacturer **CMP Products Ltd**

4 Address **36 Nelson Way,**
Nelson Park East,
Cramlington,
Northumberland,
NE23 1WH,
United Kingdom

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, 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.

The examination and test results are recorded in the confidential reports listed in Section 12.

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 60079-31:2024

10 The equipment shall be marked with the following:

Ex I M2	Ex II 2GD	Ex II 1D
Ex eb I Mb*	Ex eb IIC Gb	Ex ta IIIC Da
Ex db I Mb*	Ex db IIC Gb	

**Aluminium alloy is not acceptable for Group I applications*

Ta: -60°C to 85°C/-60°C to +200°C (see description for details)

11 Description

Design Options

Type 784 and PX784 Unions

784 Unions are 45° angled union adaptors. They are metallic and 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.

PX784 Unions are barrier seal versions of the 784 and have an alternative entry item internal arrangement, which includes an additional 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.

Type 789 and PX789 Unions

789 Unions are 90° angled union adaptors. They are metallic and 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.

PX789 Unions are barrier seal versions of the 789 and have an alternative entry item internal arrangement, which includes an additional 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 B1.20.1-2013 gauging to clause 3.2 for external threads
NPSM	ANSI/ASME B1.20.1-2013 gauging to clause 6.4 for external threads

Materials of manufacture

- Brass
- Nickel Plated Brass
- Stainless Steel
- Mild Steel
- Aluminium

Notes:

- CML 18ATEX1329U is superseded by these certificates.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by CML 18ATEX1329U.
- Where CML 18ATEX1329U is specified in other product certification, or other technical specifications, these certificate references 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 modification:

i. To recognise and correct editorial errors to the report.

12 Certificate history and evaluation reports

Issue	Date	Associated Report	Notes
0	19 Aug 2025	R18599A/00	Issue of Prime Certification
1	17 Oct 2025	R18599A/01	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 PX78* unions shall only be fitted to enclosures where the temperature, at the point of mounting, does not exceed -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 25ATEX1170X**
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	06	19 Aug 2025	Type 784 & 789 Union
GA346	1 of 1	06	19 Aug 2025	Type PX784 & PX789 Barrier Union
SCH0388	1 of 1	02	19 Aug 2025	Resin Diaphragm Seal
SCH0395	1 of 1	03	19 Aug 2025	TMCX Compound Tubes - NPT
SCH0396	1 of 1	03	19 Aug 2025	TMCX Compound Tubes - Metric
SCH0421	1 of 1	00	19 Aug 2025	PX780, PX784, PX789 Entry Item - Metric
SCH0422	1 of 1	00	19 Aug 2025	PX780, PX784, PX789 Entry Item - NPT
SCH0423	1 of 1	00	19 Aug 2025	Tube Spacer
SCH0426	1 of 1	00	19 Aug 2025	PX Union Coupler Nut
SCH0428	1 of 1	00	19 Aug 2025	PX 784 Coupler - Metric
SCH0429	1 of 1	00	19 Aug 2025	PX 784 Coupler - NPT
SCH0430	1 of 1	00	19 Aug 2025	PX 789 Coupler - Metric
SCH0431	1 of 1	00	19 Aug 2025	PX 789 Coupler - NPT
SCH0432	1 of 1	00	19 Aug 2025	780, 784, 789 Entry Item - Metric
SCH0433	1 of 1	00	19 Aug 2025	780, 784, 789 Entry Item - NPT
SCH0438	1 of 1	00	19 Aug 2025	Union Coupler Nut
SCH0439	1 of 1	09	19 Aug 2025	Face Seal Groove
SCH0440	1 of 1	00	19 Aug 2025	PX 780 Thread Cover
SCH0454	1 of 1	00	19 Aug 2025	784 Coupler - Metric
SCH0455	1 of 1	00	19 Aug 2025	784 Coupler - NPT
SCH0456	1 of 1	00	19 Aug 2025	789 Coupler - Metric
SCH0475	1 of 1	00	19 Aug 2025	789 Coupler - NPT

Issue 1

None.