



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 13ATEX1068X** Issue: **0**

4 Equipment: **Cable Gland Types A****

5 Applicant: **CMP Products Ltd**

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

7 This equipment and any acceptable variation thereto is 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 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 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 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

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

12 The marking of the equipment shall include the following:



IM2 \mathcal{f}
Ex e I Mb \mathcal{f}
Ex d I Mb \mathcal{f}

\mathcal{f} Not applicable to A2FRC



II 2G
Ex e IIC Gb
Ex d IIC Gb
Ta = -60°C to +130°C •
-20°C to +200°C ,

- When fitted with the standard seal
- , When fitted with the high temperature seal



II 1D
Ex ta IIIC Da

Project Number 27765

P J Walsh
Technical Advisor

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 13ATEX1068X
Issue 0

13 DESCRIPTION OF EQUIPMENT

Type designation A2F Range

The A2F range of cable glands are metallic and are intended to terminate circular braided or unarmoured cables into a threaded entry point within enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component and a seal actuation nut. The front entry component fitted with an elastomeric displacement sealing ring, and nylon 6 stepped skid washer, is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath.

Type designation A2E Range

The A2E range of cable glands are identical to the A2F range but with entry thread engagement lengths minimised

Type designation A2FRC Range

The A2FRC range of cable glands are intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component, a seal actuation nut and either an outer captivated or running coupling. The front entry component, fitted with an elastomeric displacement sealing ring is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath. The outer running coupling is retained in the seal actuation nut using the carbon steel 'C' clip, or a similar arrangement to allow free running thread connection to conduit.

Type designation A2F-FC Range

The A2F-FC range of cable glands is intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They also provide an anchor for a flexible metallic conduit which can protect the cable from damage. They consist of a male-threaded front entry component, a seal actuation nut and a conduit anchor element that screws into the inside of the conduit. The front entry component, fitted with an elastomeric displacement sealing ring is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath. The conduit anchor is secured between the seal actuation nut and seal to form a skid washer.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 13ATEX1068X
Issue 0

Type designation A2F-HC Range

The A2F-HC range of cable glands is intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with the relevant codes of practice. They also provide an anchor for a flexible hose which can protect the cable from damage. They consist of a male-threaded front entry component, a seal actuation nut with a hose anchor to which a hose can be attached using a jubilee clip or similar. The front entry component, fitted with an elastomeric displacement sealing ring and skid washer is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath.

Type designation A2F-FF Range

The A2F-FF range of cable glands are intended to terminate flat braided or unarmoured cables into a threaded entry point within enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component and a seal actuation nut. The front entry component fitted with an elastomeric displacement sealing ring, and nylon 6 stepped skid washer, is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath.

Type designation A2E-FF Range

The A2E-FF range of cable glands is identical to the A2F-FF range but with entry thread engagement lengths minimised

Design options

- The front entry component may be manufactured with a profiled groove to captivate an 'O' ring seal which locates on the mating face with the associated enclosure. This option having the gland type designation prefixed with the letter R, e.g. 25RA2F
- Materials of manufacture:
Brass to EN12168:1998 Grade CuZn39Pb (CW614N)
Mild steel to BS EN 10088-3:2005 Grade 220M07Pb
Stainless steel to BS EN 10088-3:2005 Grade 316S11, 316S13, 316S31 or 316S33
Aluminium alloy not inferior to grade 6082 to EN755,1-3:1996 or LM25 to BS EN 1676:2010 (Not Group I)
- Alternative entry component thread forms:
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 2779:1973 class A full form for external threads
BSPTBS 21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
ISOISO 7/1:1982, gauging to ISO 7/2 clause 6.3 for external threads
NPTANSI/ASME B1.20.1-1983 gauging to clause 8.1 for external threads
NPSMANSI/ASME B1.20.1-1983 gauging to clause 9 for external threads

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: info@siracertification.com
Web: www.siracertification.com



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 13ATEX1068X
Issue 0

- The option to manufacture glands with entry threads that are one size up from the nominal quoted gland size.
- Alternative material of manufacture of the skid washer to be the same as the gland material.
- Alternative 'C' clip plate finish (where applicable):
Stainless steel
Phosphor bronze
Beryllium copper
- The option to fit a flat blanking disc between the seal and the skid washer to maintain a minimum IP66 ingress protection. The disc to be marked 'Exe only' to indicate that the gland is not suitable for use in Ex d applications when it is fitted.

The gland and seal sizes are determined by the entry thread and cable range take sizes:

Gland Size	Entry Thread	Entry thread 'B' version	Cable Sheath Ø (mm)	
			Min.	Max.
16	M16 x 1.5	-	3.2	8.7
20s/16	M20 x 1.5	M25 x 1.5	3.2	8.7
20s	M20 x 1.5	M25 x 1.5	6.1	11.7
20	M20 x 1.5	M25 x 1.5	6.5	14.0
25	M25 x 1.5	M32 x 1.5	11.1	20.0
32	M32 x 1.5	M40 x 1.5	17.0	26.3
40	M40 x 1.5	M50 x 1.5	23.5	32.2
50s	M50 x 1.5	M63 x 1.5	31.0	38.2
50	M50 x 1.5	M63 x 1.5	35.6	44.1
63s	M63 x 1.5	M75 x 1.5	41.5	50.0
63	M63 x 1.5	M75 x 1.5	47.2	56.0
75s	M75 x 1.5	M90 x 2.0	54.0	62.0
75	M75 x 1.5	M90 x 2.0	61.1	68.0
90	M90 x 2.0	M100 x 2.0	66.6	80.0
100	M100 x 2.0	M115 x 2.0	76.0	91.0
115	M115 x 2.0	M130 x 2.0	86.0	98.0
130	M130 x 2.0	Not available	97.0	115.0

A2F-FF and A2E-FF in these sizes only.

Gland Size	Entry Thread	Entry thread 'B' version	Cable Outer Sheath (mm)	
			Min.	Max.
20s	M20 x 1.5	M25 x 1.5	4.0 x 6.2	6.8 x 11.7
20	M20 x 1.5	M25 x 1.5	5.7 x 8.0	8.7 x 13.5

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900

Fax: +44 (0) 1244 681330

Email: info@siracertification.com

Web: www.siracertification.com



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 13ATEX1068X
Issue 0

Issue	Date	Report number	Comment
0	29 April 2013	R27765A/00	The release of the prime certificate.

- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
- 15.1 When the cable glands are supplied with an entry thread that is one size up from the nominal gland size, designated with the letter 'B' after the gland size, e.g. 32B****, they shall not be used with any adaptor device.
- 15.2 When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent twisting and pulling.
- 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.

This certificate and its schedules may only be reproduced in its entirety and without change.

Certificate Annexe

Certificate Number: Sira 13ATEX1068X
Equipment: Cable Gland Types A**
Applicant: CMP Products Ltd



Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
GA177	1 of 1	05	13 Mar 13	A2FRC General arrangement & marking
GA208	1 of 1	03	13 Mar 13	A2F-FC General arrangement & marking
GA325	1 of 1	01	13 Mar 13	A2F-HC General arrangement & marking
GA348	1 of 1	00	29 Apr 13	A2F/ A2E General arrangement & marking
SCH0321	1 of 1	00	13 Mar 13	Inner seal details

This certificate and its schedules may only be reproduced in its entirety and without change.