



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 02ATEX1305X** Issue: **3**

4 Equipment: **RGM Range of Cable Glands**

5 Applicant: **Wrexham Mineral Cable**

6 Address: Wynnstay Technology Park
Ruabon
Wrexham LL14 6EN
UK

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 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 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 IEC 60079-0:2018+AC:2020 EN 60079-1:2014 EN 60079-31:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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:



II 2G 1D
Ex db IIC Gb
Ex ta IIIC Da



Signed: M Halliwell

Title: Director of Operations

Project Number 80219269

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The RGM range of compression seal cable glands are manufactured from brass to BS2874 Grade CZ121. The glands are intended to terminate circular, copper sheathed, mineral insulated cable into flameproof enclosures without compromising the explosion protection provided by the enclosures in accordance with the relevant codes of practice. The glands consist of a male-threaded front entry component designated the gland body, a back nut and a compression ring. The gland body has a hexagonal centre portion that enables it to be screwed into the entry point of its associated enclosure; it also has a mating thread spigot to attach the gland nut. The gland nut has a plain portion to allow product marking and a hexagonal portion for tightening purposes. The compression ring is housed between the gland body and the gland and is compressed onto the cable when the back nut is tightened. The compression ring provides sealing, clamping and earthing arrangements.

Design options

Each one of four metric entry thread forms, M20, M25, M32 and M40, can accommodate various sizes of copper sheathed, mineral insulated cable. This is achieved by enlarging the minor bore of the gland body and nut, and introducing another size sensitive, compression ring. The combinations are as follows:

RGM Gland Size 20, with M20 x 1.5 entry thread form	
Gland Type Number	To Suit Cable Diameter ± 0.5 mm
2L1	5.1
2L1.5	5.7
2L2.5	6.6
2L4	7.7
3L1	5.8
3L1.5	6.4
3L2.5	7.3
4L1	6.3
4L1.5	7.0
4L2.5	8.1
2H1.5	7.9
2H2.5	8.7
2H4	9.8
2H6	10.9
3H1.5	8.3
3H2.5	9.3
3H4	10.4
4H1.5	9.1
4H2.5	10.1
5L1.5	10.1

RGM Gland Size 25, with M25 x 1.5 entry thread form	
Gland Type Number	To Suit Cable Diameter ± 0.5 mm
2H4	9.8
2H6	10.9
2H10	12.7
2H16	14.7
3H2.5	9.3
3H4	10.4
3H6	11.5
3H10	13.6
3H16	15.6
4H2.5	10.1
4H4	11.4
4H6	12.7
4H10	14.8
5L1.5	10.1
7H1.5	10.8
7H2.5	12.1
7L1	7.6
7L1.5	8.4
7L2.5	9.7

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Issue 3

RGM Gland Size 32, with M32 x 1.5 entry thread form	
Gland Type No.	To Suit Cable Diameter ± 0.5 mm
2H10	12.7
3H10	13.6
4H6	12.7
4H10	14.8
4H16	17.3

RGM Gland Size 40, with M40 x 1.5 entry thread form	
Gland Type No.	To Suit Cable Diameter ± 0.5 mm
2H16	14.7
3H16	15.6
4H16	17.3

Variation 1 - This variation introduced the following changes:

- Reduction in width of the hexagonal portion of the gland body by a maximum of 2.9 mm to increase the number of threads available for securing into associated enclosure threaded entries. Detailed on drawing numbers ACC 002, ACC 004, ACC 006 and ACC 008.
- The introduction of the following new cable gland size were recognised:

RGM Gland Size 20, with M20 x 1.5 entry thread form	
Gland Type No.	To Suit Cable Diameter ± 0.5 mm
1H2.5	5.3
1H4	5.9
1H6	6.4
1H10	7.3
1H16	8.3
1H25	9.6
1H35	10.7

RGM Gland Size 25, with M25 x 1.5 entry thread form	
Gland Type No.	To Suit Cable Diameter ± 0.5 mm
1H10	7.3
1H16	8.3
1H50	12.1
1H70	13.7
1H95	15.4

RGM Gland Size 32, with M32 x 1.5 entry thread form	
Gland Type No.	To Suit Cable Diameter ± 0.5 mm
1H25	9.6
1H35	10.7
1H120	16.8
1H150	18.4
1H185	20.4
2H25	17.1
12H1.5	14.1
12H2.5	15.6

RGM Gland Size 40, with M40 x 1.5 entry thread form	
Gland Type No.	To Suit Cable Diameter ± 0.5 mm
1H50	12.1
1H240	23.3
2H25	17.1
3H25	18.2
4H25	20.1
19H1.5	16.6

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