

TECHNICAL DATA

CABLE GLAND TYPE

: A2F100, RA2F100

INGRESS PROTECTION

: IP66, IP67, IP68

PROCESS CONTROL SYSTEM

: BS EN ISO 9001
ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

ATEX CERTIFICATION No

: SIRA16ATEX1018, SIRA16ATEX4020

ATEX CERTIFICATION CODE

II 2G Ex db IIC Gb, II 2G Ex eb IIC Gb, II 1D Ex ta IIIC Da IP66, IP67, IP68

II 3G Ex nRc IIC IP66

I M2 Ex db I Mb, Ex eb I Mb IP66, IP67, IP68

IECEX CERTIFICATION No

: IECEX SIR 16.0006

IECEX CERTIFICATION CODE

: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nRc IIC Gc, Ex db I Mb, Ex eb I Mb IP66, IP67, IP68

IMPORTANT NOTES FOR INSTALLERS

1.

Read all instructions before beginning installation. Installation shall only be performed by competent, suitably trained personnel (in accordance with EN/IEC 60079-14) using the correct tools; spanners should be used for tightening.

2.

Inspection and maintenance shall only be performed by competent, suitably trained personnel (in accordance with EN/IEC 60079-14 (Initial Inspection) and EN/IEC 60079-17).

3.

Ingress Protection Statement; The interface between a cable entry device and its associated enclosure / cable entry cannot be defined. It is the user's responsibility to ensure that a minimum protection level (IP54 for explosive gas atmospheres and IP6X for explosive dust atmospheres) is maintained at the interface. Entry component threads may need additional sealing to maintain the ingress protection rating and/or restricted breathing performance as applicable to the equipment to which it will be attached, such as by either a sealing washer, thread sealant or integrated 'O' ring face seal (RA2F100). Reference should also be made to the information from EN 60079-14:2014, Clause 10, Table 10, (Note: When fitted to a threaded entry, all tapered threads will automatically provide an ingress protection rating of IP6X).

4.

The standard product temperature range is -60°C to +130°C. The equipment should not be used outside of this range.

5.

Cable glands do not have any serviceable parts and are therefore not intended to be repaired.

6.

Cable glands are manufactured from Brass, Nickel Plated Brass, Stainless Steel, Mild Steel or Aluminium, with Silicone seals. The end user shall consider the performance of these materials with regard to attack by aggressive substances that may be present in the hazardous area. Consideration should be given to potential degradation due to galvanic corrosion at the interface of dis-similar metallic materials.

7.

It is the end user's responsibility to ensure the equipment materials are suitable for their final installation location. If in doubt consult CMP Products Limited.

8.

Ex db marked cable glands can only be supplied with metric or NPT entry threads.

SPECIAL CONDITIONS FOR SAFE USE None
ACCESSORIES The following optional accessories are available to assist with fixing, sealing and earthing: Locknut, Earth Tag, Serrated Washer, Entry Thread (I.P.) Sealing Washer, Shroud

Number of turns to tighten	Outer Seal Tightening Guide																
	GLAND SIZE																
	16/16P	20S16/20S16P	20S/20SP	20/20P	20L/20LP	25/25P	25L/25LP	32	32L	40	50S	50	63S	63	75S	75	90
	CABLE DIAMETER																
1.0										32.2		44.0	49.6		61.9		89.0
1.5	8.0	8.0			14.0	19.5	20.0	25.9	25.9	31.5	37.7	43.4	48.9	54.5	61.3	67.5	87.9
2.0	7.1	7.1	11.2	13.0	13.0	18.7	19.2	25.0	25.0	30.7	36.9	42.7	48.2	53.9	60.6	66.7	87.2
2.5	6.0	6.0	10.6	11.9	11.9	17.8	18.4	24.1	24.1	29.9	36.0	42.0	47.5	53.2	59.9	65.8	86.5
3.0	4.8	4.8	9.9	10.8	10.8	16.9	17.7	23.1	23.1	29.1	35.3	41.3	46.8	52.4	59.2	65.0	85.7
3.5	3.2	3.2	9.1	9.7	9.7	15.9	16.9	22.0	22.0	28.2	34.6	40.7	46.1	51.7	58.4	64.1	85.0
4.0			8.0	8.6	8.7	14.8	16.2	20.9	20.9	27.4	33.9	40.0	45.4	50.8	57.5	63.3	84.3
4.5			6.5	7.5		14.0	15.4	19.6	20.2	26.5	33.3	39.3	44.6	49.9	56.6	62.4	83.6
5.0						12.1	14.7			25.5	32.6	38.7	43.8	48.8	55.5	61.6	82.8
5.5							14.0			32.1	38.0	43.1			54.0		82.1
6.0										31.5	37.3	42.3				66.6	81.4
6.5										31.0	36.7	41.5					80.7
7.0											36.0					76 to 79.9	
7.5																	
8.0																	

Cable Gland Size	Available Entry Threads (Alternate Metric Thread Lengths Available)					Overall Cable Diameter		RA2F100 Across Flats	RA2F100 Across Corners	A2F100 Across Flats	A2F100 Across Corners	Protrusion Length	Combined Ordering Reference (*Brass Metric)		
	Standard			Option											
	Metric	Thread Length (Metric)	NPT	Thread Length (NPT)	NPT	Min	Max	Max	Max	Max	Max	Max	Size	Type	Ordering Suffix
16	M16	15.0	-	-	-	3.2	8.0	24.0	26.4	24.0	26.4	34.9	16	A2F100	1RA
16P	M16	15.0	-	-	-	3.2	8.0	-	-	22.0	24.2	34.7	16P	A2F100	1RA
20S/16	M20	15.0	1/2"	19.9	3/4"	3.2	8.0	27.0	29.7	24.0	26.4	31.4	20S16	A2F100	1RA
20S/16P	M20	15.0	-	-	-	3.2	8.0	-	-	22.0	24.2	32.1	20S16P	A2F100	1RA
20S	M20	15.0	1/2"	19.9	3/4"	6.5	11.2	27.0	29.7	24.0	26.4	32.1	20S	A2F100	1RA
20SP	M20	15.0	-	-	-	6.5	11.2	-	-	22.0	24.2	32.1	20SP	A2F100	1RA
20	M20	15.0	1/2"	19.9	3/4"	7.0	13.5	27.0	29.7	27.0	29.7	35.8	20	A2F100	1RA
20P	M20	15.0	-	-	-	7.0	13.5	-	-	24.0	26.4	41.4	20P	A2F100	1RA
20L	M20	15.0	1/2"	19.9	3/4"	8.7	14.0	27.0	29.7	27.0	29.7	34.3	20L	A2F100	1RA
20LP	M20	15.0	-	-	-	8.7	14.0	-	-	24.0	26.4	34.3	20LP	A2F100	1RA
25	M25	15.0	3/4"	20.2	1"	11.5	19.5	36.0	39.6	36.0	39.6	40.4	25	A2F100	1RA
25P	M25	15.0	-	-	-	11.5	19.5	-	-	32.0	35.2	49.7	25P	A2F100	1RA
25L	M25	15.0	3/4"	20.2	1"	14.0	20.0	36.0	39.6	36.0	39.6	39.9	25L	A2F100	1RA
25LP	M25	15.0	-	-	-	14.0	20.0	-	-	32.0	35.2	39.9	25LP	A2F100	1RA
32	M32	15.0	1"	25.0	1 1/4"	19.0	25.5	41.0	45.1	41.0	45.1	38.5	32	A2F100	1RA
32L	M32	15.0	1"	25.0	1 1/4"	20.2	26.3	41.0	45.1	41.0	45.1	38.9	32L	A2F100	1RA
40	M40	15.0	1 1/4"	25.6	1 1/2"	25.0	32.2	50.0	55.0	50.0	55.0	39.1	40	A2F100	1RA
50S	M50	15.0	1 1/2"	26.1	2"	31.0	38.2	60.0	66.0	55.0	60.5	41.4	50S	A2F100	1RA
50	M50	15.0	2"	26.9	2 1/2"	35.6	44.0	60.0	66.0	60.0	66.0	45.8	50	A2F100	1RA
63S	M63	15.0	2"	26.9	2 1/2"	41.5	49.9	75.0	82.5	70.5	77.6	43.3	63S	A2F100	1RA
63	M63	15.0	2 1/2"	39.9	3"	48.2	54.9	75.0	82.5	75.0	82.5	43.6	63	A2F100	1RA
75S	M75	15.0	2 1/2"	39.9	3"	54.0	61.9	89.9	98.9	84.0	92.4	45.4	75S	A2F100	1RA
75	M75	15.0	3"	41.5	3 1/2"	61.1	67.9	89.9	98.9	84.0	92.4	49.0	75	A2F100	1RA
90	M90	24.0	3 1/2"	42.8	4"	66.6	79.9	108.0	118.8	108.0	118.8	66.0	90	A2F100	1RA
100	M100	24.0	3 1/2"	42.8	4"	76.0	89.0	123.0	135.3	123.0	135.3	72.2	100	A2F100	1RA
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	133.4	146.7	69.9	115	A2F100	1RA
130	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	152.4	167.6	81.1	130	A2F100	1RA

Dimensions are displayed in millimetres unless otherwise stated
In the above example ordering references, add 'R' for RA2F100 cable glands (with 'O' Ring face seal included) e.g. 32RA2F1001RA4
CMP Products Limited on its sole responsibility declares that the equipment referred to herein conforms to the requirements of the ATEX Directive 2014/34/EU and the following standards:
EN 60079-0:2012/A11:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-15:2010, EN 60079-31:2013, BS 6121:1989, EN 62444:2013

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CE

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IECEx

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UL

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KG

PESO

INMETRO

CIDET

EN

Lloyd's Register

DNV

ABS

Logo's shown for illustration purposes only. Please check certification for details

SCAN FOR INSTALLATION VIDEOS

INSTALLATION INSTRUCTIONS FOR A2F100, RA2F100 CABLE GLAND

CABLE GLAND FOR USE WITH UNARMoured AND BRAID ARMoured CABLES
INCORPORATING EU DECLARATION OF CONFORMITY TO DIRECTIVE 2014/34/EU

CABLE GLAND TYPES A2F100 RA2F100

A2F100 - no face seal

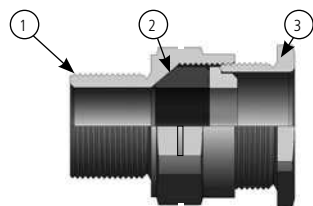
RA2F100 - with face seal

CMP Document No. F492 Issue 4

INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES A2F100, RA2F100

CABLE GLAND COMPONENTS - It is not necessary to dismantle the cable gland any further than illustrated below

- 1. Entry Item
- 2. Seal
- 3. Seal Nut

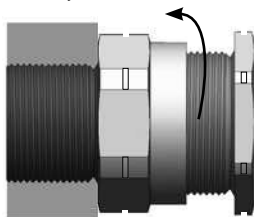


PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

- 1. It is not necessary to dismantle the gland any further than illustrated below.



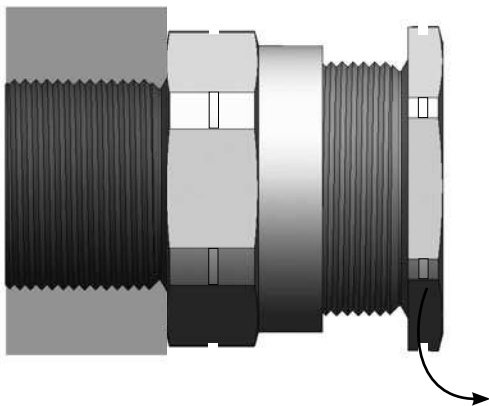
- 2. Fit the gland into the equipment and fully tighten the entry item (1). RA2F100 'O' ring face seal will engage when fully tightened



- 3. Determine the conductor length required to suit the installation and prepare the cable accordingly, removing part of the outer sheath where required to reveal the insulated conductors.



- 4. Slacken the seal nut (3) to relax the seal (2).



- 5. Only using finger pressure, tighten the seal nut until light resistance to tightening is met.

Then either use the seal tightening guide tape or table on the rear of the page to determine how much further to tighten the seal using a spanner (using the outer seal tightening guide is recommended).

Wrap the seal tightening guide tape around the cable to show the amount of spanner turns needed (as shown here). Make sure the correct side of the seal tightening guide tape is used depending on the cable gland size.

