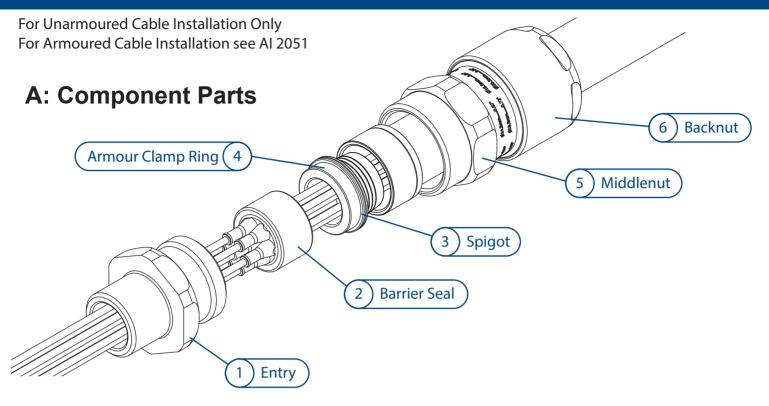
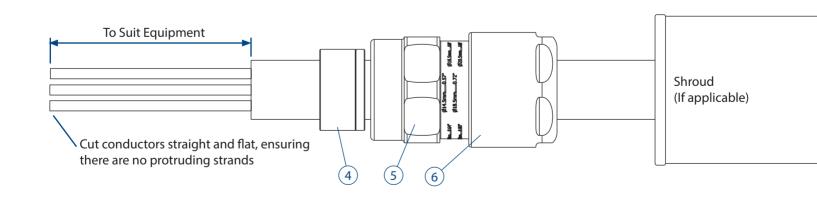
PPSG 553/RAC





B: Cable Preparation

Slide shroud (if included), backnut (6), middlenut (5) and armour clamp ring (4) onto cable. Orientation of clamping ring is not important. Cut cable length and expose conductors to suit equipment For preparation of Drain Wires refer to Al2028.



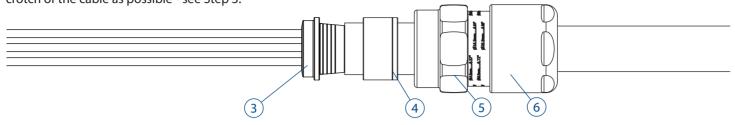


C: Installing Cable Gland

STEP 1: Slide Spigot Over Cable

Slide spigot (3) over cable until it meets the outer sheath of the cable.

The cable outer diameter may fit inside the spigot bore. If this is the case, the seal when installed must be pushed as far toward the crotch of the cable as possible - see Step 3.

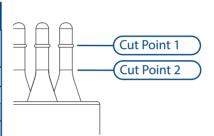


STEP 2: Prepare Seal for Installation

For all seal positions which are to be populated with conductors, cut the diaphragms down as per the instructions below. For this, Hawke recommends the use of flush cable cutters.

All unused positions must be left capped.

Cut Point Selection									
Seal Type	Over Insulation Diameter (mm)	Cut Point							
Standard	≥1.5 ≤2.0	1							
Standard	>2.0 ≤4.0	2							
B-Size	≥4.5 ≤5.5	1							
Alternative (S)	>5.5 ≤6.5	2							



Critical Note
Applies to C-Size Seal Only

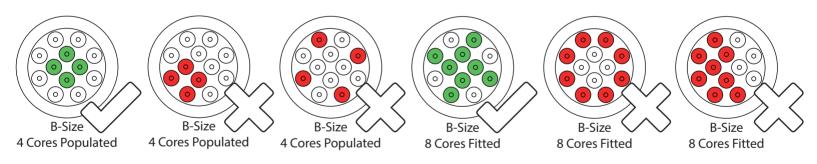
The 7x indicated positions above

must be populated with

conductors.

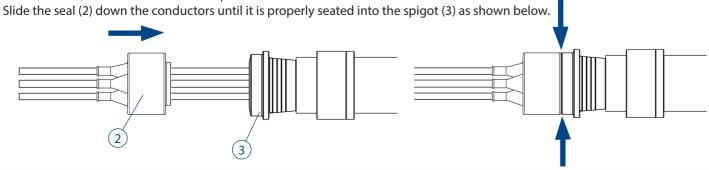
Hawke recommends that the seals are populated from the centre positions first, and are evenly distributed as much as possible to ensure consistent compression.

Examples of good and bad practice:



STEP 3: Install seal onto Conductors

Feed each conductor into the correct seal diaphragm position. Ensure the diaphragm cone is in complete contact with the conductor around the full diameter. If the seal is ripped during this process, and the cone is not in complete contact with the conductor, then the seal must be replaced.



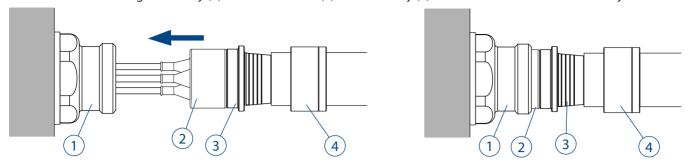
Images for illustration purposes only
Al 2053 - Issue C / Page 2 of 4
Product supplied may differ from that shown

5 10 15 20 25 30 35 40 45

STEP 4: Install barrier seal into Entry

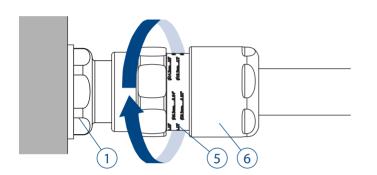
Fit entry (1) to enclosure. If required, use the appropriate IP washer.

Feed the conductors through the entry (1) and seat the seal (2) into the entry (1) until it meets the base of the entry bore.



STEP 5: Compress Barrier Seal

With the seal fully seated into the entry, tighten up the middle nut by hand until resistance is felt.
Using a wrench/spanner tighten the middlenut (5) the correct number of turns, refer to barrier seal compression table.



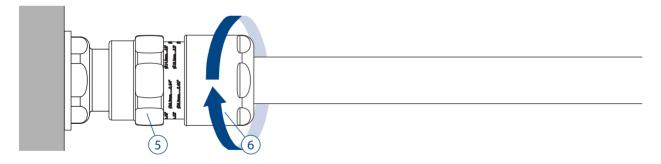
Barrier Seal Compression										
Gland Size	Seal Type	No. of Turns								
Os - O	Standard	2								
А	Standard	3								
В	Standard	5								
В	Alternative (S)	4								
С	Standard	3								

STEP 6: Install Backnut

Tighten the backnut (6) until a seal is formed around the cable.

Use a wrench/spanner to grip the middlenut (5).

While preventing the middlenut (5) turning, use a second wrench to apply one further full turn to the backnut (6).

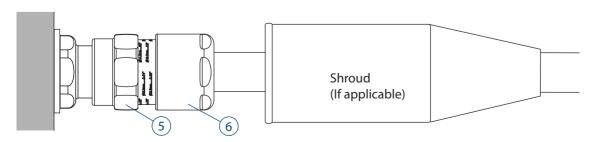


STEP 7: Inspect Backnut

Use the middlenut (5) guide as an indication that the backnut (6) is in the correct position to suit cable diameter.

A diameter scale below is provided to assist this process.

Slide shroud over cable gland if applicable.



Images for illustration purposes only
Al 2053 - Issue C / Page 3 of 4 Product supplied may differ from that shown

50 55 60 65 70 75 80 Diameter Scale (mm)

Technical Information PSG 553/RAC



TECHNICAL DATA

Cable Gland Type: P PSG 553/RAC

Equipment Type: Group II Barrier Cable Glands

Ingress Protection: IP66, IP67, IP68*

*30m for 7 days with thread sealant to

FN60529

Operating Temp: -60°C to +100°C

CERTIFICATION DETAILS

Ex db IIC Gb / Ex eb IIC Gb /Ex nR IIC Gc / Ex tb IIIC Db

ATEX: CML19ATEX1167X UKEX: CML 21UKEX1161X

IFCFx. CMI 19 0045X IFx:14 0272X EAC: No EA3C RU C-GB.HA91.B.00264/21

ACCESSORIES

Hawke offer the following accessories to enable correct sealing and

ground of cable gland.

Shroud: For additional corrosion protection Locknut: To secure gland into position Sealing Washer: For additional ingress protection Earth Tag: For external bonding point

Serrated Washer:

Hawke GMC: Gland mounted cable clamp

INSTALLATION NOTES

1. Hawke cable gland entry threads are manufactured in accordance with Metric BS3643 (Metric) or ANSI/ASME B1.20.1 (NPT).

2. All cable glands must be installed by a suitably trained and competent individual.

3. When specifying cable glands, the installer should check material compatability with enclosure and environment.

4. In order to maintain effective sealing of an IP washer, cable gland entries must be installed perpendicular to the enclosure sealing faces and the enclosure sealing face must be smooth and free from damage.

SPECIAL CONDITIONS OF USE:

1. When used with unarmoured or braided cables, this cable gland is only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting. Does not apply when fitted with Hawke Gland Mounted Clamp (GMC) 2. When the glands are used for increased safety or dust protection the entry thread shall be suitably sealed (in accordance with IEC 60079-14) to maintain the ingress protection rating of the associated enclosure. Not applicable when Hawke IP66/67 seal is used.

TORQUE VALUES

All torque values below were generated on metallic mandrels. For cable, it is To prevent vibration loosening locknuts recommended that the assembly instructions are followed.

Torque Figures N/m										
Gland Size	Os O A E				B (alt)	C				
Middlenut Torque	7	7	7	15	27	27				
Backnut Torque	12	12	20	30	35	35				

CABLE GLAND SELECTION TABLE																
Size		Cable Acceptance Details														
	Entry Thread Size		Conductors								Outer Sheath Diameter		essed Jth	num Jth	Hexagon Dimensions	
			Standard Seal				Alternative Seal (S)									
Ref.	Metric	NPT		neter ım)	Quantity		Diameter (mm)		Quantity		Min	Max	Compressed Length	Maximum Length	Across	Across
			Min	Max	Min	Max	Min	Max	Min	Max	141111	max			Flats	Corners
Os	M20 / M16	1/2"	1.5	4.0	1	4	-	-	-	-	5.5	12.0	52.0	81.0	24.0	26.5
0	M20 / M16	1/2"	1.5	4.0	1	4	-	-	-	-	9.5	16.0	52.0	81.0	24.0	26.5
Α	M20	1/2" / 3/4"	1.5	4.0	1	7	-	-	-	-	12.5	20.5	53.0	83.0	30.0	32.5
В	M25	3/4" / 1"	1.5	4.0	1	12	4.5	6.5	1	5	16.9	26.0	59.5	95.0	36.0	39.5
C	M32	1" / 1¼"	1.5	4.0	7	19	-	-	-	-	22.0	33.0	64.0	98.0	46.0	50.5

EU Declaration of Conformity in accordance with European Directive 2014/34/EU and UK Statutory Instrument 2016/1107

Manufacturer: Hawke International, Oxford Street West, Ashton-under-Lyne, OL7 0NA, United Kingdom

Provisions of the Directive fulfilled by the Equipment: Group II Category 2GD Ex db eb IIC Gb, Ex nR IIC Gc, Ex tb IIIC Db – IP66 67 Harmonized Standards used: EN 60079-0:2018, EN60079-1:2014, EN60079-7:2015+A1:2018, EN60079-15:2019, EN60079-31:2014

Notified Body for EU-Type Examination: CML B.V. 2776 Amsterdam, NLD EU-type Examination Certificate: CML19ATEX1167X, CML19ATEX4507X (Ex nR) Notified Body for production: 0598

Approved Body for UK-Type Examination: CML B.V. 2503 Chester, UK UK-type Examination Certificate: CML 21UKEX1161X, CML21UKEX4133X (Ex. nR) Approved Body for production: 1180

On behalf of the above named company, I declare that on the date the equipment, accompanied by this declaration, is placed on the market the equipment conforms with all technical and regulatory requirements of the above listed directives

Andrew Reid