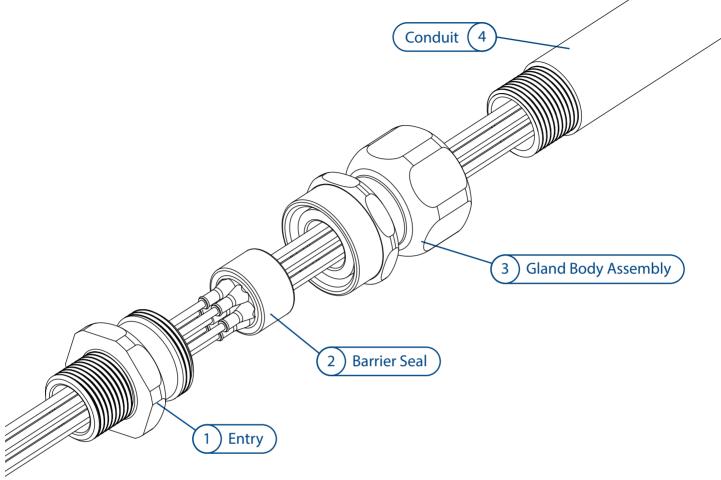
Cable Gland Assembly Instructions P SB474



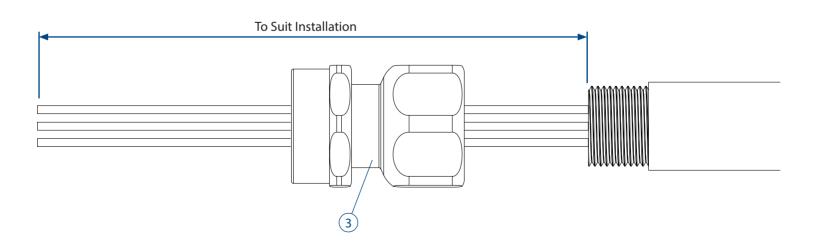
A: Component Parts



B: Installing Cable Gland

STEP 1: Pull conductors through Conduit

Pull sufficient length of conductors through the conduit to suit the installation. Pass the conductors through the Gland Body Assembly (3).

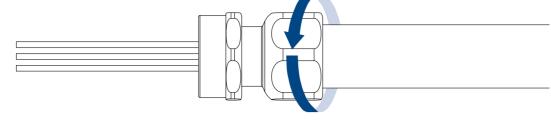






STEP 2: Screw Backnut to Conduit

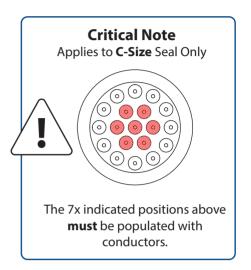
Screw Gland Body Assembly (3) onto pre-threaded conduit, or suitable flexible conduit fitting, and tighten with a spanner or wrench



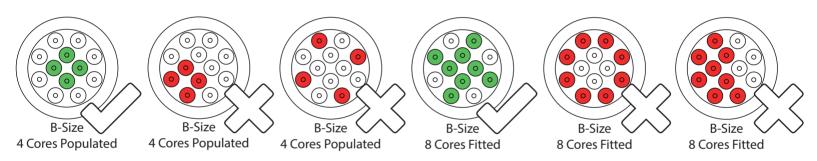
STEP 3: Prepare Seal for Installation

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



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:

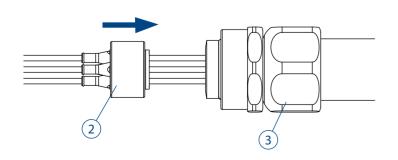


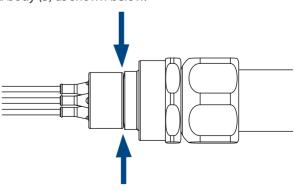
STEP 4: Install seal onto Conductors

Ensure conductors are cut straight and flat, ensuring there are no protruding strands

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.

Slide the seal (2) down the conductors until it is properly seated into the gland body (3) as shown below.





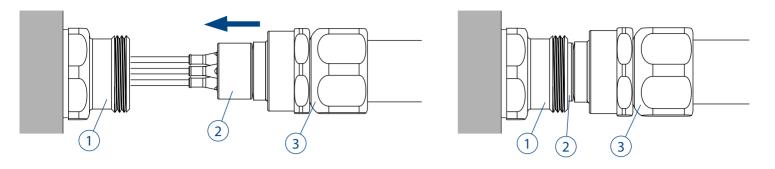
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Images for illustration purposes only Product supplied may differ from that shown

STEP 5: Install Barrier seal into Entry

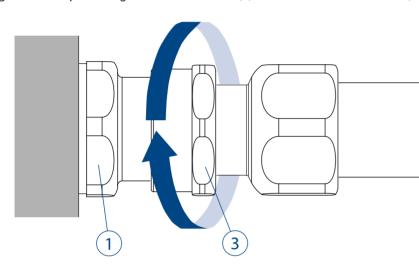
Fit entry (1) to enclosure. If required, use the appropriate IP washer.

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 8: Compress Barrier Seal

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



Bar	Barrier Seal Compression									
Gland Size	Seal Type	No. of Turns								
0	Standard	2								
А	Standard	3								
В	Standard	5								
В	Alternative (S)	4								
C	Standard	3								

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Images for illustration purposes only. Product supplied may differ from that shown.

Technical Information P SB474



TECHNICAL DATA
Cable Gland Type:
Equipment Type:
Ingress Protection:
Operating Temp:

P SB 474 Group II Conduit Cable Glands IP66, IP67 -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 CMI 19.0045X IEx:14.0272X IFCFx: No EA3C RU C-GB.HA91.B.00264/21

ACCESSORIES

Hawke offer the following accessories to enable correct sealing and ground of cable glands.

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:	To prevent vibration loosening locknuts
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.

5. For drain wire preparation please refer to AI2028 "Method 1".

SPECIAL CONDITIONS OF USE:

1. 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 recommended that the assembly instructions are followed.

Torque Figures N/m									
Gland Size	Os	0	А	В	B (alt)	С			
Gland Body Torque	7	7	7	15	27	27			

	CABLE GLAND SELECTION TABLE															
			Female Entry Thread Size		Cable Acceptance Details									Hexagon Dimensions		
					Conductors											
Size					Standard Seal			Alternative Seal (S)			essed Jth	th th	Dimensions			
Ref.	ef. Metric	NPT	Metric	NPT	Diameter (mm)		Quantity		Diameter (mm)		Quantity		Compressed Length	Maximum Length	Across	Across
					Min	Max	Min	Max	Min	Max	Min	Max			Flats	Corners
0	M20 / M16	1⁄2"	M20/M16	1⁄2"	1.5	4.0	1	4	-	-	-	-	54.5	69	24.0	26.5
А	M20	1⁄2" / 3⁄4"	M20	1⁄2" / 3⁄4"	1.5	4.0	1	7	-	-	-	-	56.4	69	30.0	32.5
В	M25	3⁄4" / 1"	M25	3⁄4" / 1"	1.5	4.0	1	12	4.5	6.5	1	5	48.2	61	36.0	39.5
С	M32	1" / 1¼"	M32	1" / 1¼"	1.5	4.0	7	19	-	-	-	-	61.6	77	46.0	50.5

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

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

Equipment: P SB 474

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.



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