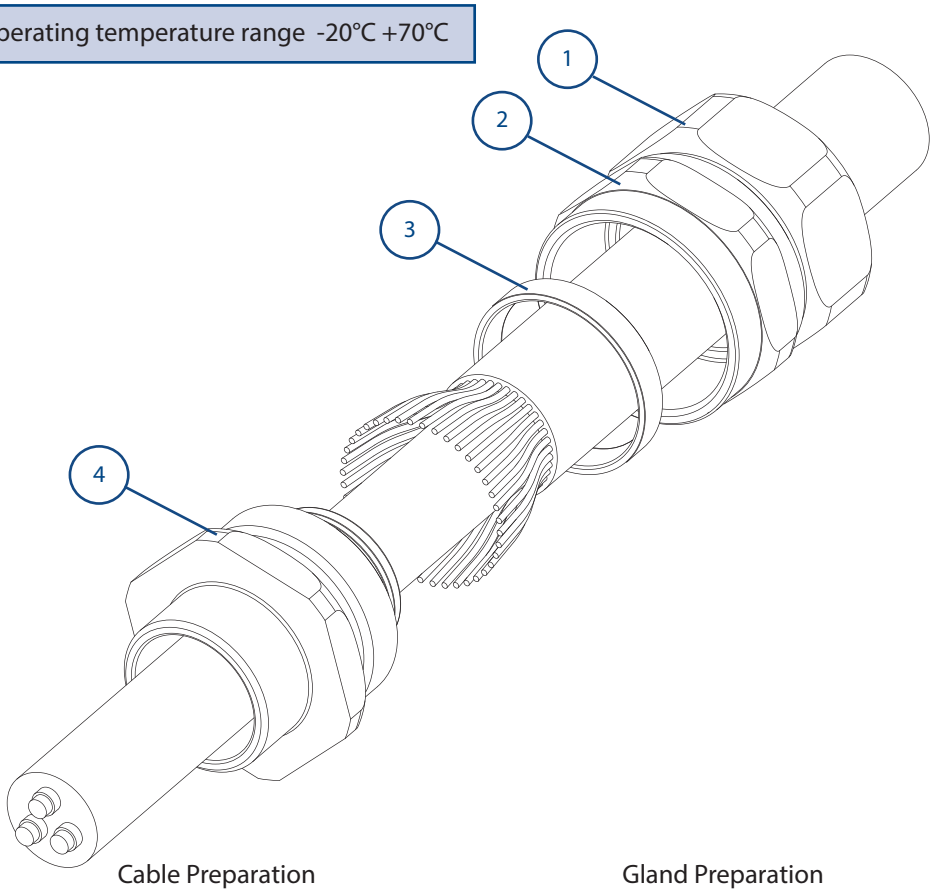
Assembly Instructions for cable gland:
FMCW Industrial

HAWKE International

AI 505 / Issue A - 03/16

Operating temperature range -20°C +70°C



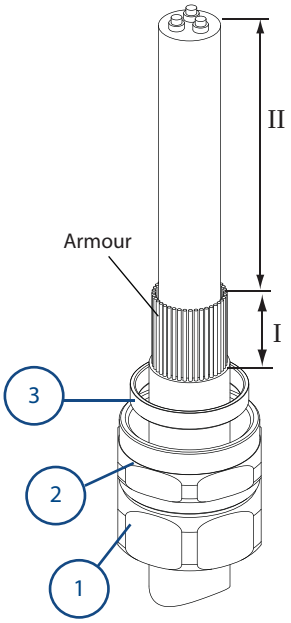
Certification Details

Gland Type: FMCW Industrial Gland
Certified to Hawke Approved Drawings

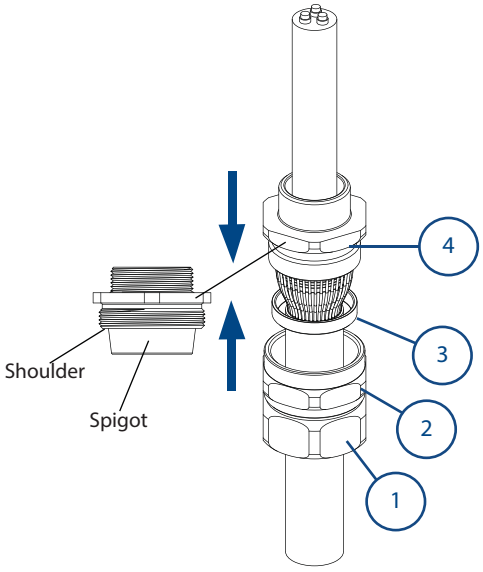
Suitable for use with circular elastomeric cables with SWA armour type for indoor / outdoor applications.

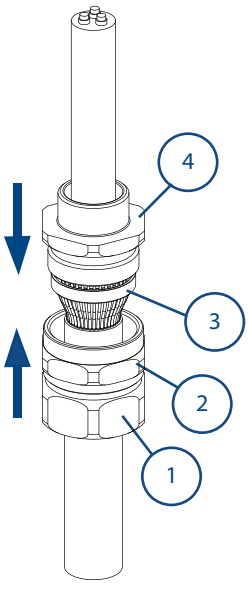
1. Backnut
2. Middle Nut
3. Armour Clamping Ring
4. Entry and Spigot

Cable Preparation



Gland Preparation





A
Strip cable to suit equipment as shown above and expose the armour 'I'.
'I' = 20mm for cable gland sizes Os to C
'I' = 25mm for cable gland sizes C2 to F
'II' = to suit equipment.

B
Push the cable through the entry ④. Spread armour over the spigot until the end of the armour is up against the shoulder of the clamping cone. Position the armour clamping ring ③.

C
Move the sub-assembly ① and ② up to meet the entry ④.

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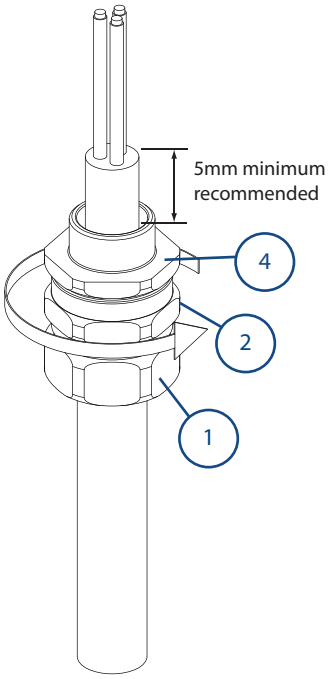
Images are for illustration purposes only.

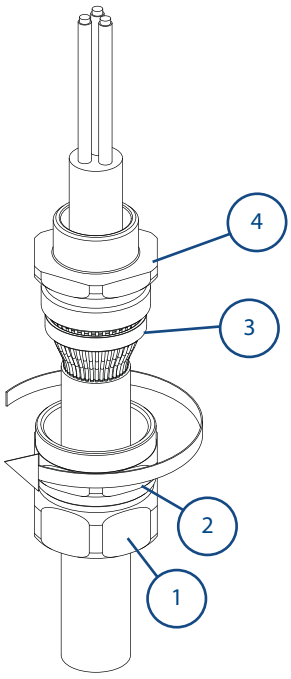
Product supplied may differ slightly from that shown.



D

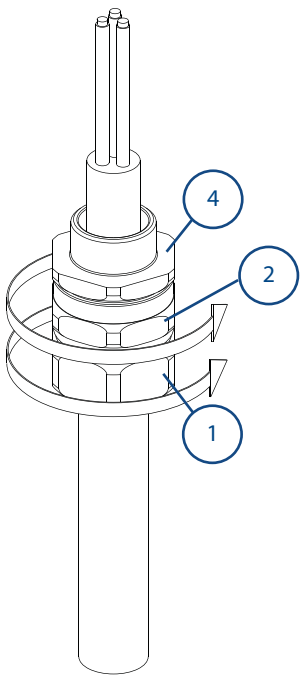
Hold the entry ④ in position with a spanner/wrench to prevent rotation. Hand tighten the middle nut ② to the entry ④ and turn a further ½ to 1 of a turn with a spanner/wrench.

IMPORTANT: *Support the cable to prevent it from twisting. To ease wiring inside the enclosure, it may be beneficial to strip the inner sheath of the cable as shown above.*



E

Unscrew the middle nut ② and visually inspect that the armour has been successfully clamped between the spigot ④ and the armour clamping ring ③. If armour is not clamped, repeat assembly.



F

Reassemble middle nut ② onto the entry component ④. Tighten up the middle nut ② until hand tight, then using a wrench/spanner, turn the nut through one hex. flat (e.g. 1/6 of a turn).

Tighten the backnut ① to form a seal around the cable, then tighten a further 1 to 2 full turns using a wrench/spanner. Ensure that the middle nut ② does not rotate when tightening the backnut ①.

CABLE GLAND SELECTION TABLE

Size Ref.	Entry Thread Size			Cable Acceptance Details				Max Length	Hexagon Dimensions	
				Inner Sheath	Outer Sheath		Standard Steel Wire 'W'			
	Metric	NPT	Length of Thread (mm)	Max.	Min.	Max.			Across Flats	Across Corners
Os	M20•	½"	10	8.0	6.5	16.0	0.9/1.25	54	24.0	27.7
O	M20•	½"	10	11.9	6.5	16.0	0.9/1.25	54	24.0	27.7
A	M20	½" - ¾"	10	14.3	11.5	20.9	0.9/1.25	55	30.0	34.6
B	M25	¾" - 1"	10	20.2	17.0	27.2	1.25/1.6	60	36.0	41.6
C	M32	1" - 1¼"	10	26.5	23.5	33.6	1.6/2.0	65	46.0	53.1
C2	M40	1¼" - 1½"	15	32.5	31.0	43.0	1.6/2.0	72	55.0	63.5
D	M50	1½" - 2"	15	42.3/44.4▲	36.0	52.6	2.0/2.5	83	65.0	75.1
E	M63	2" - 2½"	15	54.3/56.3▲	52.0	65.3	2.5	86	80.0	92.4
F	M75	2½" - 3"	15	65.3/68.2▲	64.0	78.0	2.5	86	95.0	109.6

• Sizes Os and O are available with an M16 thread size. If M16 entry is used on O size cable glands the maximum cable inner sheath diameter is limited to 10.9mm.

▲ Smaller value is applicable when selecting reduced NPT entry option.

SCHEDULE OF LIMITATIONS:

1. This cable gland has an operating temperature range of -20°C to +70°C.

2. A seal must be formed between the equipment and the cable gland to maintain the appropriate degree of protection against ingress of dust, solid objects and water.

ACCESSORIES:

Before cable gland assembly or stripping of the cable gland assembly, consideration should be given to any cable gland accessories that may be required, such as: -

- Locknut, to secure cable glands into position.
- Sealing washer, to offer additional ingress protection of the enclosure at the cable gland entry.
- Earthtag, to provide an external armour bonding point.
- Serrated washer, to dampen any vibrations that may loosen the locknut or cable gland assembly.

EU Certificate of Conformity in accordance with European Directive 2014/35/EU
Manufacturer: Hawke International
Address: Oxford Street West, Ashton-under-Lyne, OL7 0NA, United Kingdom.

Equipment Type: FMCW Industrial Gland

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.

Standards used: EN 62444 : 2013

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A. Tindall
Technical Manager