

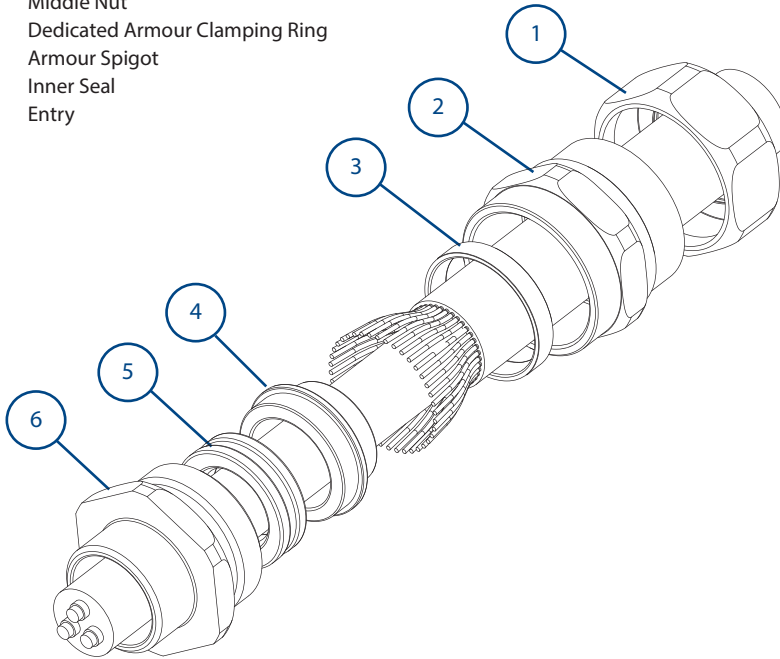
# Assembly Instructions for cable gland: FME1W Industrial

# HAWKE International

AI 509 / Issue A - 06/17

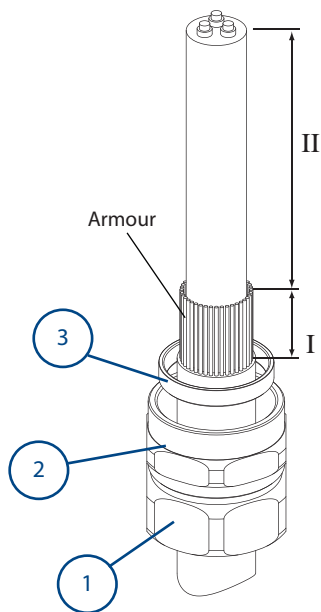
Operating temperature range -20°C +70°C

1. Backnut and Outer Seal
2. Middle Nut
3. Dedicated Armour Clamping Ring
4. Armour Spigot
5. Inner Seal
6. Entry



**Suitable for indoor and outdoor applications.**  
**Contains two seals, one for the outer sheath and one for the inner sheath.**  
**Suitable for use with circular elastomeric cables with single wire armour (SWA).**

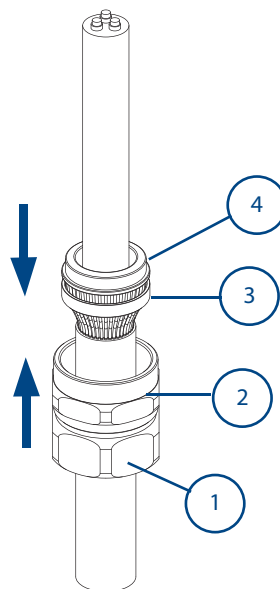
## Cable Preparation



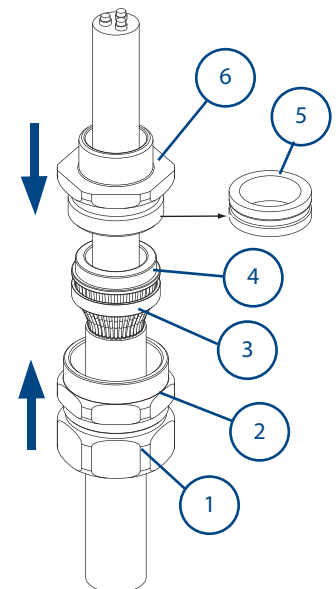
**A** Strip cable to suit equipment as shown above and expose the armour 'I'.

'I' = 20mm for cable gland sizes Os to C  
'I' = 25mm for cable gland sizes C2 to F  
'II' = to suit equipment.

## Gland Preparation



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



**C** Remove the inner seal ⑤ from the entry ⑥. Place the entry ⑥ over the armour spigot ④. Move the sub-assembly ① and ② up to meet the entry ⑥.

**Note:** If the equipment has a threaded entry, it may be advisable to screw the entry component into the equipment to prevent twisting of the cable after step D

Images are for illustration purposes only.

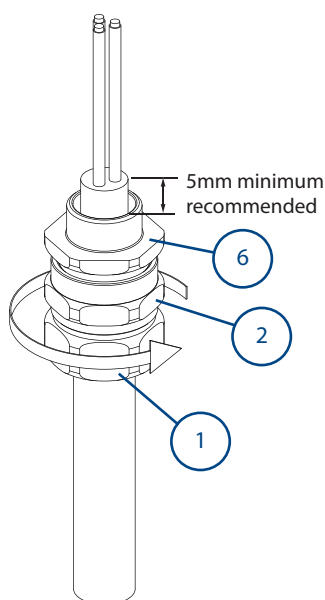
Product supplied may differ slightly from that shown.

## Connection Solutions

## www.ehawke.com

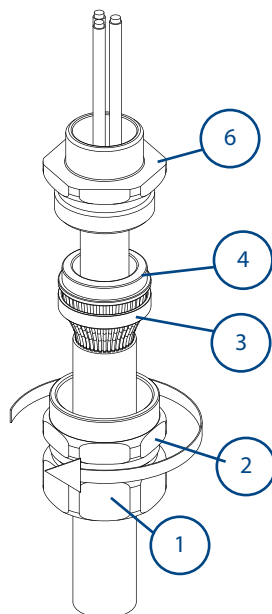
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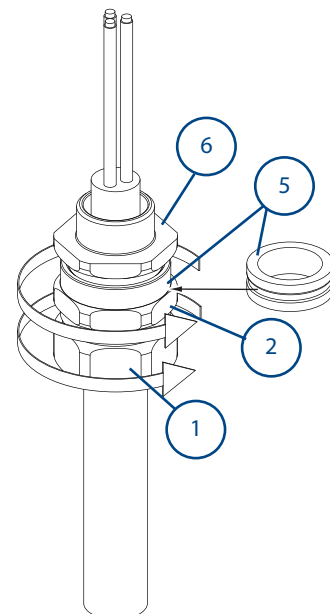


**D**  
Unless already screwed into the equipment hold the entry ⑥ in position with a spanner/wrench to prevent rotation. Hand tighten the middle nut ② to the entry ⑥ and turn a further half to one full turn with a spanner/wrench.

**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 armour spigot ④ and the armour clamping ring ③. If armour not clamped, repeat assembly.



**F**  
Remove entry ⑥ and refit inner seal ⑤, replace entry ⑥ and re-assemble middle nut ② onto the entry component ⑥. Tighten up the middle nut ② using a wrench/spanner until resistance is felt between the seal and cable, then turn the middle nut through a further half to one full turn to complete the inner seal.

Tighten the backnut ① to form a seal around the cable, then tighten a further one to two 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'			
	Standard Seal		Alternative Seal (S)										
	Metric	NPT	Length of Thread (mm)	Min.	Max.	Min.	Max.	Min.	Max.			Across Flats	Across Corners
Os	M20	½"	10	3.2	8.0	---	---	6.5	16.0	0.8/1.25	60	24.0	27.7
O	M20	½"	10	6.5	11.9	---	---	6.5	16.0	0.8/1.25	60	24.0	27.7
A	M20	½" - ¾"	10	10.0	14.3	7.0	13.4	11.5	20.9	0.8/1.25	62	30.0	34.6
B	M25	¾" - 1"	10	12.5	20.2	9.5	15.4	17.0	27.2	1.25/1.6	69	36.0	41.6
C	M32	1" - 1¼"	10	19.0	26.5	14.5	21.2	23.5	33.6	1.6/2.0	72	46.0	53.1
C2	M40	1¼" - 1½"	15	25.0	32.5	22.0	28.0	31.0	43.0	1.6/2.0	80	55.0	63.5
D	M50	1½" - 2"	15	31.5	42.3/44.4 <sup>▲</sup>	27.5	34.8	36.0	52.6	2.0/2.5	104	65.0	75.1
E	M63	2" - 2½"	15	42.5	54.3/56.3 <sup>▲</sup>	39.0	46.5	52.0	65.3	2.5	104	80.0	92.4
F	M75	2½" - 3"	15	54.5	65.3/68.2 <sup>▲</sup>	49.5	58.3	64.0	78.0	2.5	104	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: -

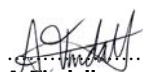
- Locknut, to secure cable glands into position.
- Sealing washer, to offer additional ingress protection of the enclosure at the cable gland entry.
- Earhtag, to provide an external armour/braid bonding point.
- Serrated washer, to dampen any vibrations that may loosen the locknut or cable gland assembly.

**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: FME1W 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**



**A. Tindall**  
**Technical Manager**