

Assembly Instructions for cable gland type PSG 553/RAC EExd IIC/EEExe II

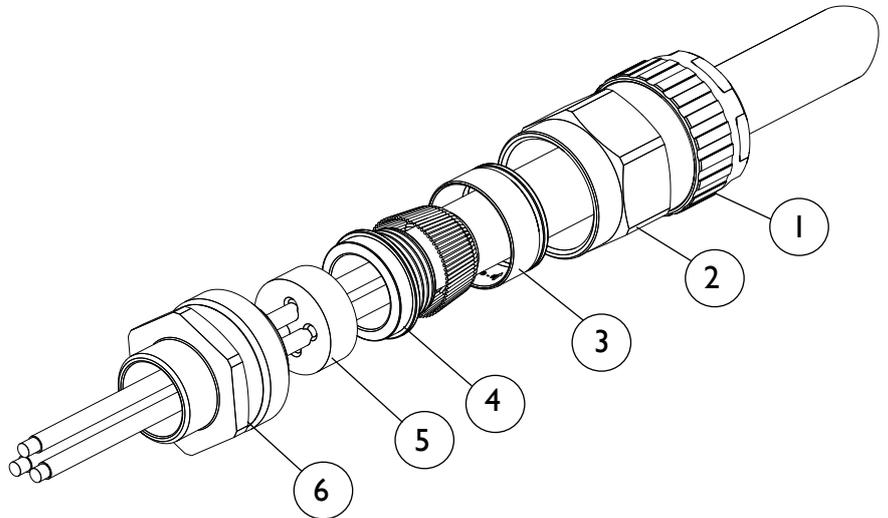
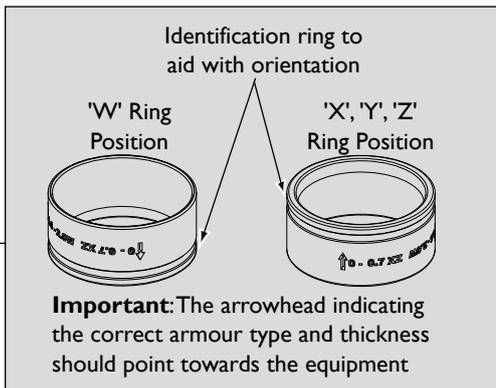
Assembly Instructions
AI 312 / Issue C - 06/02

BASEEFA Certificate No. BAS 01 ATEX 2074X^{Ex} II 2 GD IP66^{CE}
Operating temperature range -60°C +80°C

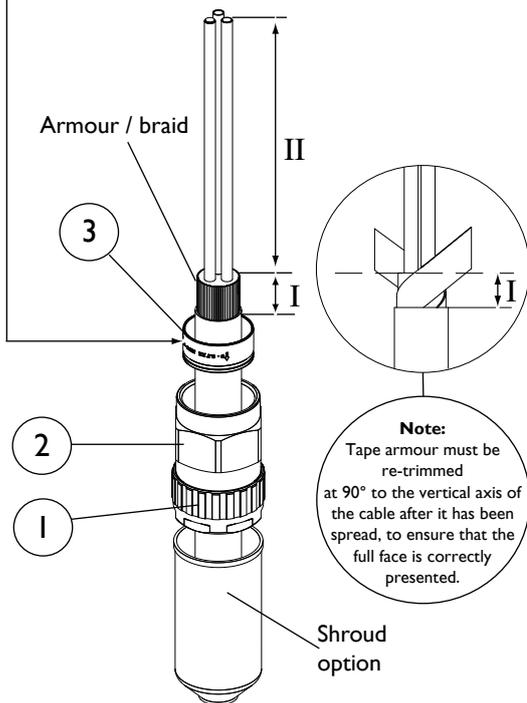
HAWKE

International

- 1. Backnut
- 2. Middle Nut
- 3. Reversible Armour Clamping Ring (RAC)
- 4. Armour Spigot
- 5. Seal
- 6. Entry (with captive deluge seal), if required



Cable Preparation

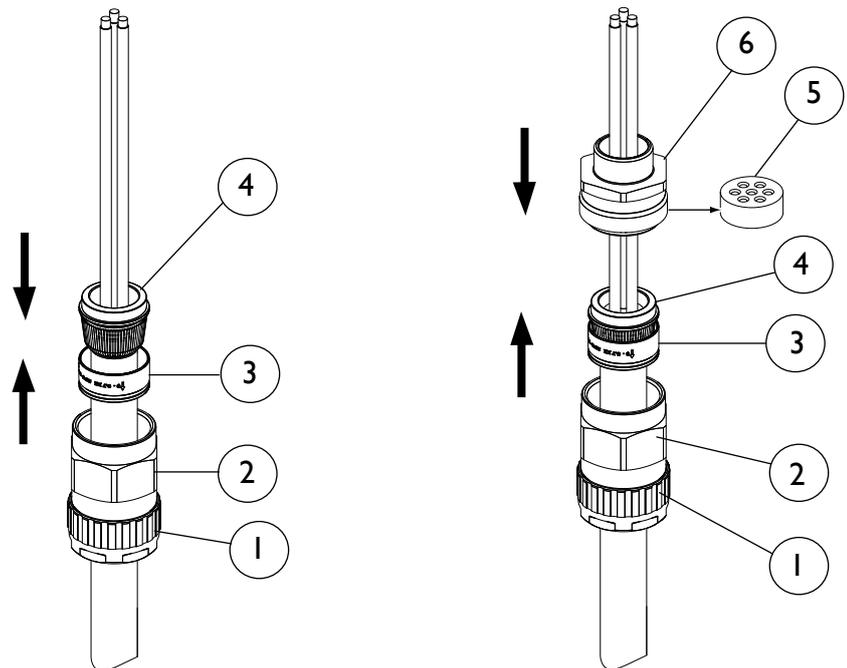


A
Strip Cable to suit equipment as shown above and expose the armour / braid 'I' removing all cable fillers.

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

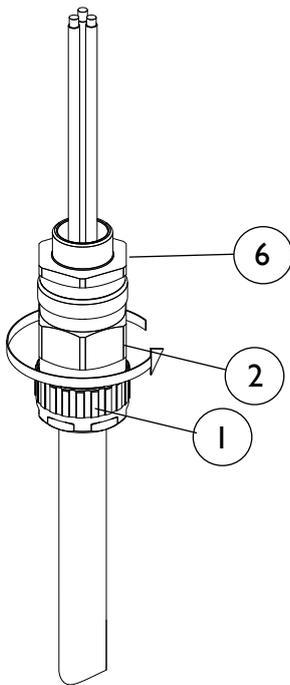
If required, fit shroud.

Cable Gland Preparation



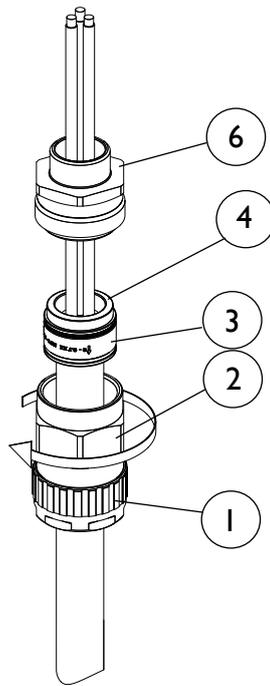
B
Push the cable through the armour spigot ④. Spread armour / braid over the armour spigot ④ until the end of the armour / braid is up against the shoulder of the armour cone. Position the armour clamping ring ③.

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.



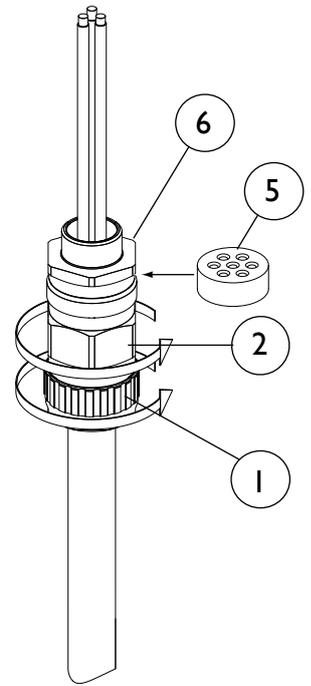
D
Hold the entry ⑥ in position with a spanner / wrench to prevent rotation. Hand tighten the middle nut ② to the entry ⑥ and turn a further 1/2 to 3/4 of a turn with a spanner / wrench.

IMPORTANT: Support the cable to prevent it from twisting.



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

Note : If the equipment has a threaded entry, it may be advisable to screw the cable gland into the equipment to prevent twisting of the cable after Step E



F
Select the correct punch tool to suit the conductors sizes (see table) and cut out the required number of holes in the seal ⑤ using the indented positions as a guide. Remove the entry ⑥ and pass the individual conductors through the appropriately sized punched holes in the seal ⑤ ensuring they are not twisted or kinked, and slide the seal ⑤ down to the spigot ④. Replace entry ⑥ and re-assemble middle nut ② onto the entry component ⑥. Tighten up the middle nut ② until hand tight, then using a wrench / spanner turn the nut through a minimum of one full turn. Tighten the backnut ① to form a seal around the cable, then tighten a further full turn using a wrench / spanner. Ensure that the middle nut ② does not rotate when tightening the backnut ①. Ensure that the deluge seal is pulled down into position, if fitted. Locate the shroud over the cable gland, if applicable.

CABLE GLAND SELECTION TABLE									
Size Ref.	Male Entry Thread Size		Outer Sheath		Steel Wire Armour/ Tape / Braid		Max Length	Hexagon Dimensions	
	Metric	NPT	Min.	Max.	Orientation 1	Orientation 2		Across Flats	Across Corners
A	M20	1/2" - 3/4"	12.5	20.5	0.9/1.25	0/0.7	80	30.0	34.6
B	M25	3/4" - 1"	16.9	26.0	1.25/1.6	0/0.7	88	36.0	41.6
C	M32	1" - 1 1/4"	22.0	33.0	1.6/2.0	0/0.7	95	46.0	53.1

CABLE GLAND SIZE FOR CONDUCTOR					
Maximum No. of Cores	Cores Cross Sectional Area mm ²				
	1.5	2.5	4.0	6.0	10.0
7	A & B	A & B	B & C	C	C
4	-	-	-	B	-
3	-	-	-	-	B

PUNCH TOOL SIZE DETAILS					
Punch Ref.	No.1	No.1	No.2	No.2	No.3
Core C.S.A. mm ²	1.5	2.5	4.0	6.0	10.0

SCHEDULE OF LIMITATIONS:

- The cable glands when used with braided cable are only suitable for use with fixed apparatus, the cable for which must be effectively clamped and cleated elsewhere.
- This range of cable glands is not suitable for use with flameproof enclosures of Group IIC having a volume greater than 2000 c.c.
- This cable gland has an operating temperature range of -60°C to +80°C.
- 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: -

- Shroud, to offer additional corrosion protection.
- 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 / braid bonding point.
- Serrated washer, to dampen any vibrations that may loosen the locknut or cable gland assembly.

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