

# Assembly Instructions for cable gland type

## 50I/453 G, H & J EExd IIC/EEExe II

BASEEFA Certificate No. BAS 01 ATEX 2296X  $\text{Ex}$  II 2 GD IP66  $\text{CE}$

## 353 G, H & J EEExe II

BASEEFA Certificate No. BAS 01 ATEX 2349X  $\text{Ex}$  II 2 GD IP66  $\text{CE}$

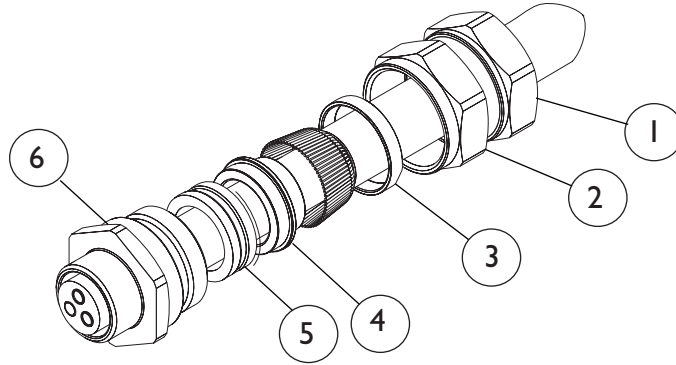
## I53 G, H & J Industrial General Purpose $\text{CE}$

Operating temperature range  $-60^{\circ}\text{C}$   $+100^{\circ}\text{C}$

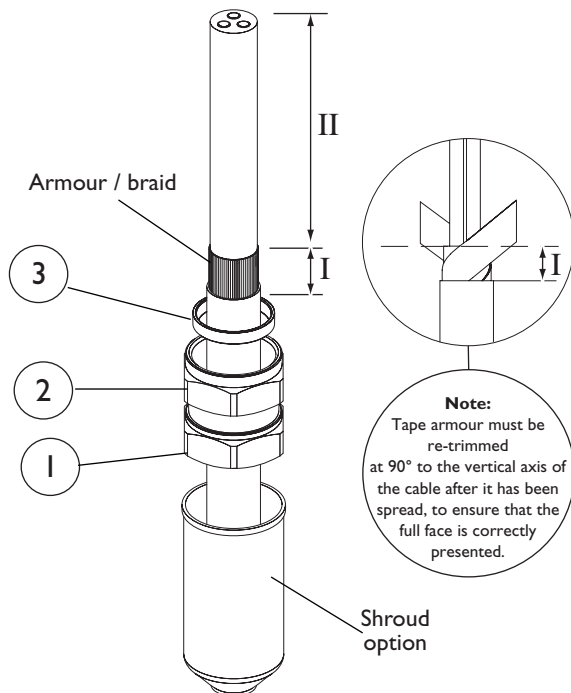
Assembly Instructions  
AI 329  
Issue K - 05/06

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



### Cable Preparation

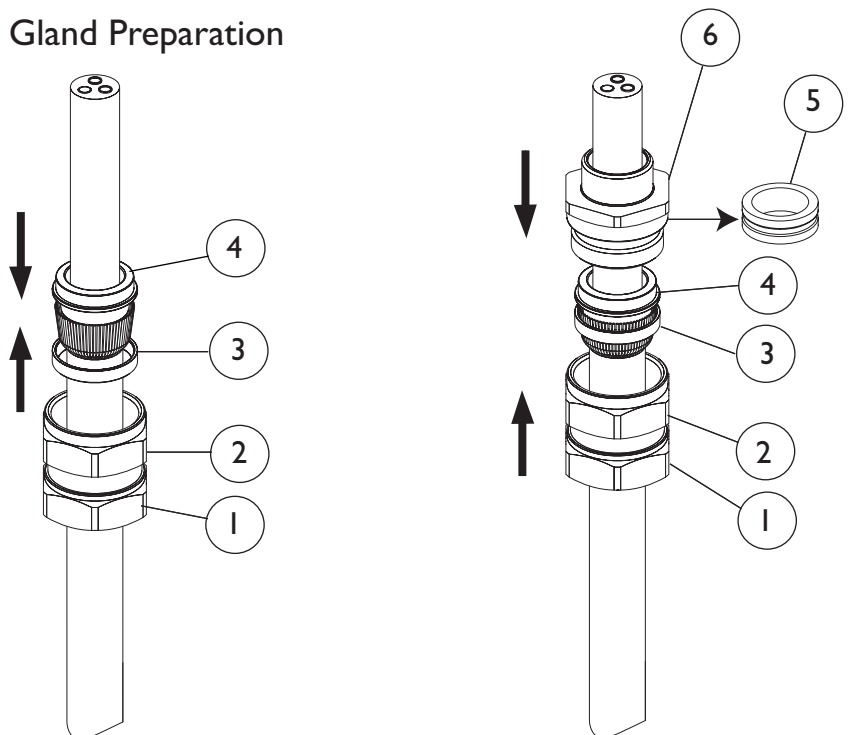


**A** Strip Cable to suit equipment as shown above and expose the armour / braid 'I'.

'I' = 25mm for cable gland sizes G, H & J  
'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 and position over the armour spigot ④. Move the sub-assembly ① and ② up to meet the entry ⑤.

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 D.

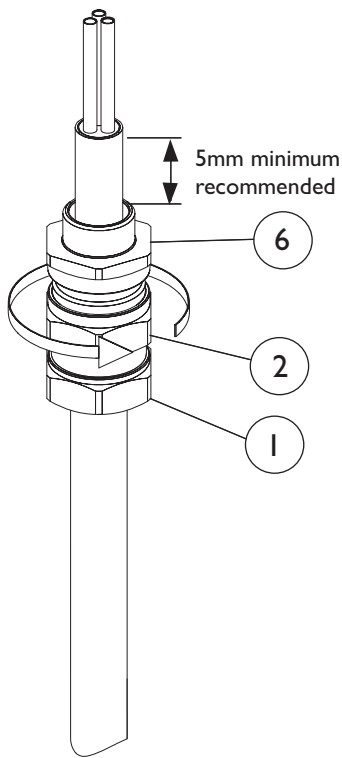
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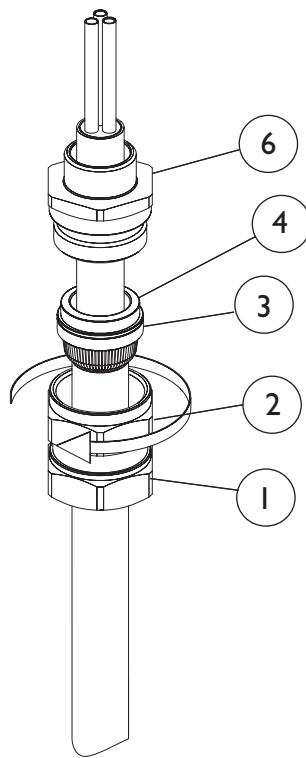
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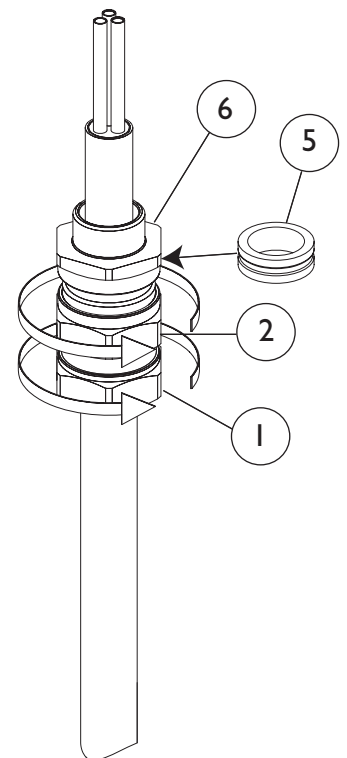
**D**  
Unless already screwed into the equipment hold the entry ⑥ in position with a spanner / wrench to prevent rotation. Hand tighten the middle nut ② to the entry ⑥ and turn a further 1/2 to 3/4 of a turn with a spanner / wrench.

**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 / braid has been successfully clamped between the armour spigot ④ and the armour clamping ring ③. If armour / braid 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 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 using a wrench / spanner, to form a seal around the cable, until resistance is felt. Then tighten a further 1/2 to 3/4 of a turn with a spanner / wrench. Ensure that the middle nut ② does not rotate when tightening the backnut ①.

Ensure that the deluge seal is pulled down into position. Locate the shroud over the cable gland, if applicable

CABLE GLAND SELECTION TABLE										
Size Ref.	Entry Thread Size		Cable Acceptance Details				Max Length	Hexagon Dimensions		
			Inner Sheath		Outer Sheath					Steel Wire Armour / Tape / Braid
	Metric	NPT	Min.	Max.	Min.	Max.		Across Flats	Across Corners	
G	M80	-	67.0	73.0	75.0	89.5	#	114	106.4	123.0
H	M90	3½"	67.0	77.6	75.0	89.5	#	114	115.0	132.8
J	M100	4"	75.0	91.6	88.0	104.5	#	114	127.0	146.7

# Dedicated armour clamping rings are fitted to order.

EN 50262 CABLE GLAND CLASSIFICATION																
Cable Gland Type	Material			Mechanical Properties				Electrical Properties				External Influences			Sealing System	
	Metal	Non-Metallic	Composite	Without Cable Anchorage	With Cable Anchorage	Impact Category	Cable Retention (Armoured Cable)	Equipotential Bonding	Connection to Metallic Layers	Protective Connection to Earth	Insulation Characteristics	Ingress Protection	Temperature Range	Resistance to Salt and Sulphur Dioxide Laden Atmospheres	Single Orifice Seal	Multi-Orifice Seal
				Type	Category	Class			Category		IP66	-60° to 80°				
I53	Y			X	A	8	B	Y	Y	C	X	Y	Y	Y	Y	X

#### SCHEDULE OF LIMITATIONS:

1. The cable glands when used with braided cable types are only suitable for use with fixed apparatus, the cable for which must be effectively clamped and cleated elsewhere.
2. The 501/453 range of cable glands is not suitable for use with flameproof enclosures of Group IIC having a volume greater than 2000 cc.
3. This cable gland has an operating temperature range of -60°C to +100°C.
4. 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.
- Earhtag, 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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Hawke International  
UK Office,  
Oxford Street West,  
Ashton-under-Lyne,  
Lancashire.  
OL7 0NA. UK.

Sales: UK 0870 60 60 105  
Sales: +44 (0) 161 830 6698  
Technical UK: 0870 458 9358  
Technical: +44 (0) 161 830 6697  
Fax: +44 (0) 161 830 6648  
E-mail: [sales@ehawke.com](mailto:sales@ehawke.com)

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