

Assembly Instructions for cable gland: 501/414 Exd IIC/Exe II ExtD I14 Industrial

HAWKE
International

Assembly Instructions
AI 310 / Issue L - 08/06

Operating temperature range -60°C +100°C

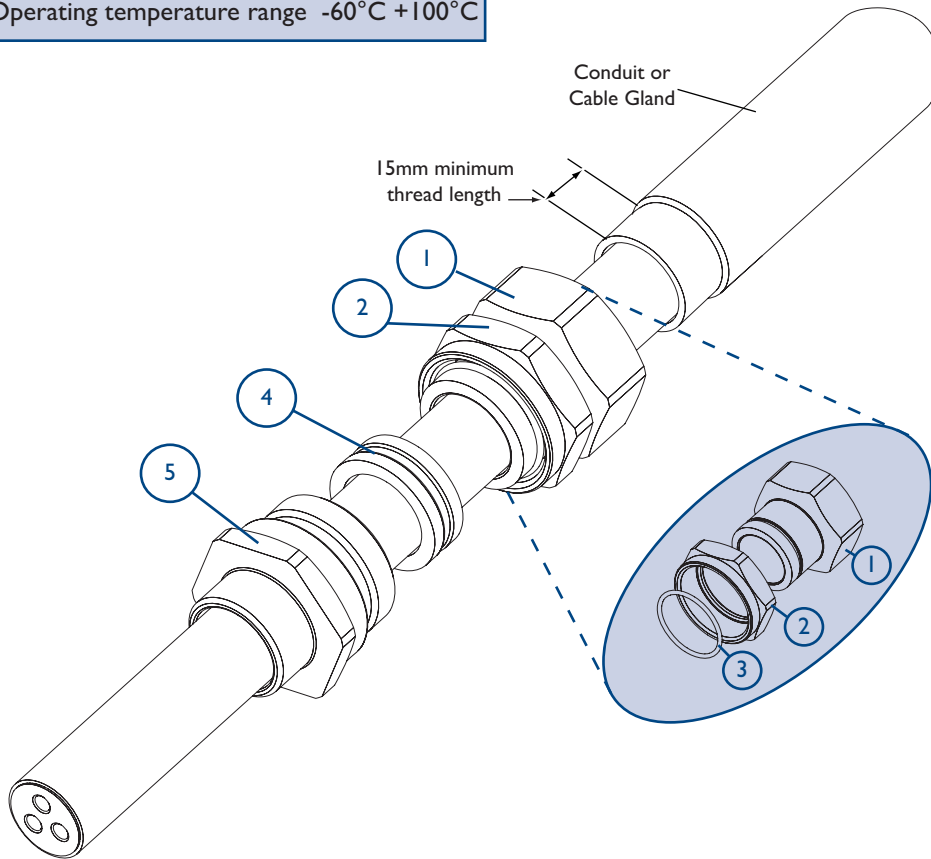
Certification Details

Gland Type: 501/414 Exd IIC/Exe II/ExtD
Baseefa No: 06ATEX0056X Ⓢ II 2 GD A21 IP66 Ⓒ
IECEX No: BAS06.0013X
GOST R No: POCC GB.ГБ05.В01128
CSA No: 1015065 (LR 78713-7)

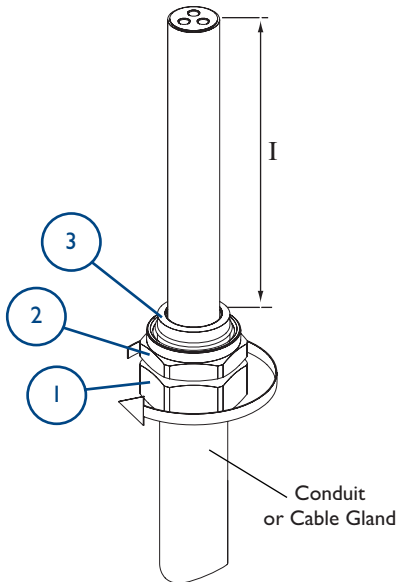
Gland Type: I14 Industrial
Certified to Hawke Approved Drawings Only

- | | |
|--------------------|----------------|
| 1. Backnut | } Sub-Assembly |
| 2. Running Coupler | |
| 3. Spring Clip | |
| 4. Seal | |
| 5. Entry | |

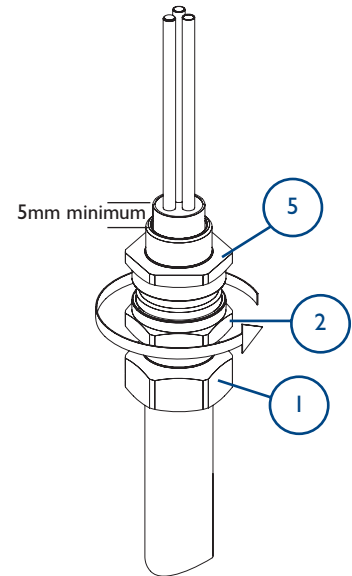
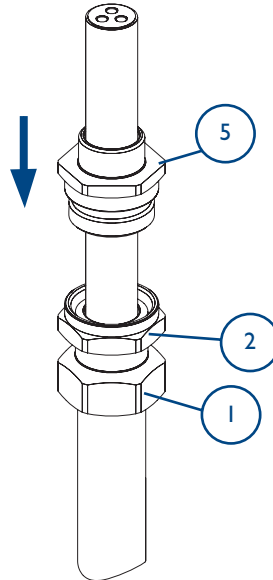
IMPORTANT: Prior to installation, it may be necessary to release conduit from its clamping mechanism to allow sufficient movement.



Cable Preparation



Gland Preparation



A Pull sufficient length 'I' of cable through conduit/cable gland to suit equipment. Screw backnut ① onto pre-threaded conduit/cable gland and tighten with spanner/wrench.

B Pass the cable through the entry ⑤ and seal ④ which may have previously been fitted into the equipment.

C Locate the running coupler ② onto the entry ⑤ and tighten using a wrench/spanner until resistance is felt between the seal and cable, then turn the running coupler through a further half a full turn to complete the inner seal, ensuring that entry ⑤ is prevented from turning and backnut ① remains tight on the conduit. This procedure compresses the seal ④ into contact with the cable outer sheath.

Safety First

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CONDUIT CABLE GLAND SELECTION TABLE											
Size Ref.	Male Entry Thread Size		Female Entry Thread Size		Outer Sheath				Max Length	Hexagon Dimensions	
	Metric	NPT	Metric	NPT	Standard Seal		Alternative Seal (S)			Across Flats	Across Corners
					Min.	Max.	Min.	Max.			
Os	M20 [•]	½"	M20	#	8.0	3.0	---	---	69	24.0	27.7
O	M20 [•]	½"	M20	#	11.9	7.5	---	---	69	24.0	27.7
A	M20	½" - ¾"	M20	#	11.0	14.3	8.5	13.4	69	30.0	34.6
B	M25	¾" - 1"	M25	#	13.0	20.2	9.5	15.4	61	36.0	41.6
C	M32	1" - 1¼"	M32	#	19.0	26.5	15.5	21.2	77	46.0	53.1
C2	M40	1¼" - 1½"	M40	#	25.0	32.5	22.0	28.0	79	55.0	63.5
D	M50	1½" - 2"	M50	#	31.5	42.3/44.4	27.5	34.8	105	65.0	75.1
E	M63	2" - 2½"	M63	#	42.5	54.3/56.3	39.0	46.5	105	80.0	92.4
F	M75	2½" - 3"	M75	#	54.5	65.3/68.2	48.5	58.3	107	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.

Thread sizes specified with order

	EN 50262 CABLE GLAND CLASSIFICATION															
	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
Cable Gland Type					Type	Category	Class			Category		IP66	-60° to 80°			
I 14	Y			X	A	8	X	Y	X	X	X	Y	Y	Y	Y	X

SCHEDULE OF LIMITATIONS:

- These cable gland types are only suitable for use with fixed apparatus, the cable for which must be effectively clamped and cleated elsewhere.
- 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.