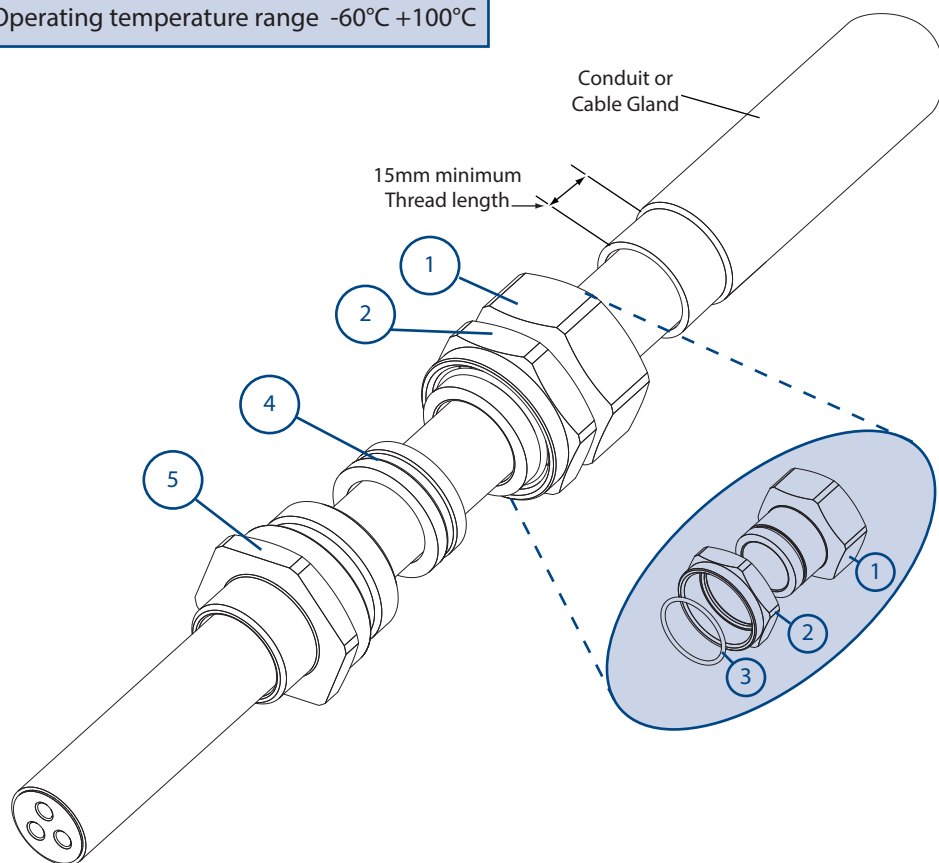


Assembly Instructions for cable gland: 114 Industrial General Purpose

Operating temperature range -60°C +100°C



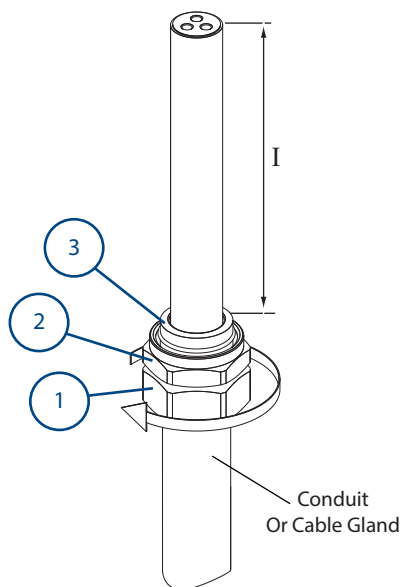
Certification Details

Gland Type: 114 Industrial IP66, IP67
In accordance with EN 60529
Certificate of Assessment: CML 15CA932-2

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

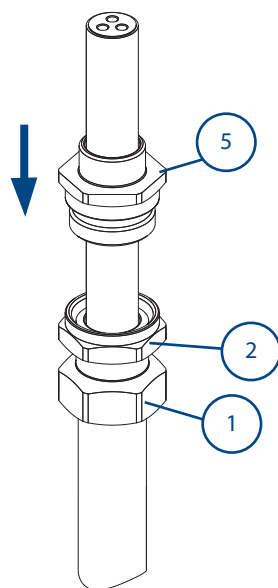
IMPORTANT: Prior to installation, it may be Necessary to release conduit from its clamping Mechanism to allow sufficient movement.

Cable Preparation

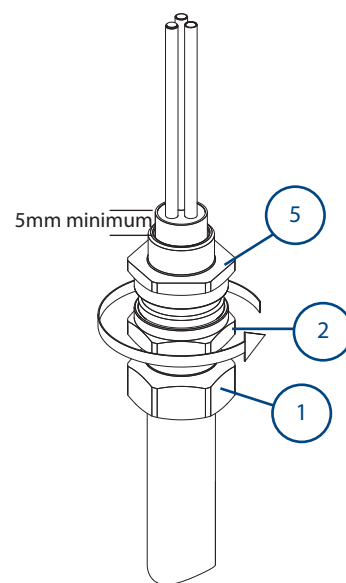


A Pull sufficient length 'I' of cable through conduit/ Cable gland to suit equipment. Screw backnut ① Onto pre-threaded conduit/cable gland and Tighten with spanner/wrench.

Gland Preparation



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 to one 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.

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	½"	3.2	8.0	---	---	69	24.0	26.5
O	M20 [*]	½"	M20	½"	6.5	11.9	---	---	69	24.0	26.5
A	M20	½" - ¾"	M20	¾" or ½"	10.0	14.3	9.0	13.4	69	30.0	32.5
B	M25	¾" - 1"	M25	1" or ¾"	13.0	20.2	9.5	15.4	61	36.0	39.5
C	M32	1" - 1¼"	M32	1¼" or 1"	19.5	26.5	15.5	21.2	77	46.0	50.5
C2	M40	1¼" - 1½"	M40	1½" or 1¼"	25.0	32.5	22.0	28.0	79	55.0	60.6
D	M50	1½" - 2"	M50	2" or 1½"	31.5	44.4/42.3 ¹	27.5	34.8	105	65.0	70.8
E	M63	2" - 2½"	M63	2½" or 2"	42.5	56.3/54.3 ¹	39.0	46.5	105	80.0	88.0
F	M75	2½" - 3"	M75	3" or 2½"	54.5	68.2/65.3 ¹	49.5	58.3	107	95.0	104.0

¹ Smaller value is applicable when selecting reduced NPT male entry option.

* 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.

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
114	Y			X	A	8	X	Y	X	X	X	IP66 & IP67	-60° To 100°	Y	Y	X

INSTALLATION GUIDELINES:

1. Cable gland entry threads are machined in accordance with BS 3643 (Metric) or ANSI/ASME B1.20.1 (NPT)
2. The enclosure material shall be compatible with the cable gland.
3. To maintain IP 66/67 ratings, Hawke recommends the use of a Hawke IP Washer or any other suitable sealing method.
4. To ensure effective sealing of an IP washer, enclosure sealing face surface Finish shall be smooth and free from damage. The entry hole should be Drilled perpendicular to the sealing face.
5. When using enclosures with plain through holes, Hawke recommends Nominal +0.3mm of diametric clearance over the major diameter of the Thread. For example, to accommodate an M20 entry, drill 20.3 diameter.
6. Allowable enclosure wall thickness is dependent on gland entry thread Length, style of enclosure entry hole (threaded or plain), protection concept Of the installation and the required use of accessories. The installer should be Aware of and specify for these requirements.
7. External earth tags are recommended to be fitted adjacent to the range of The cable gland entry, so they remain in direct contact with the cable gland. Any sealing washer should be placed between tag and enclosure. For more Information on placement of accessories, visit www.hubbell.com/hawke.

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.
- Earth-tag, to provide an external armour/braid bonding point.
- Serrated washer, to dampen any vibrations that may loosen the locknut or cable gland assembly.

Declaration of Conformity in accordance with European Directive 2006/95/EC (until 19th April 2016) and EU Declaration of Conformity in accordance with European Directive 2014/35/EU (from 20th April 2016)
Manufacturer: Hawke International
Address: Oxford Street West, Ashton-under-Lyne, OL7 0NA, United Kingdom.

Equipment Type: 114 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. Reid
Technical Manager