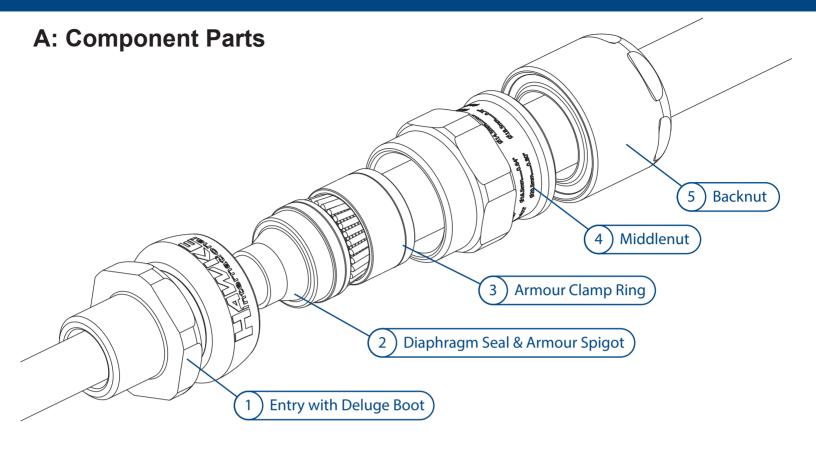
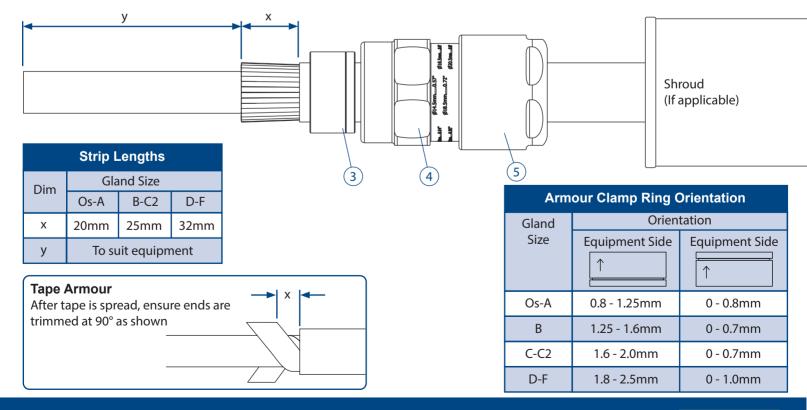
Cable Gland Assembly Instructions 153 UNIV





B: Cable Preparation

Slide shroud (if included), backnut ⑤, middlenut ④ and armour clamp ring ③ onto cable. Confirm orientation of armour clamp ring is correct (see table below). Cut cable length, strip outer sheath and cut armour to lengths as shown in table below.



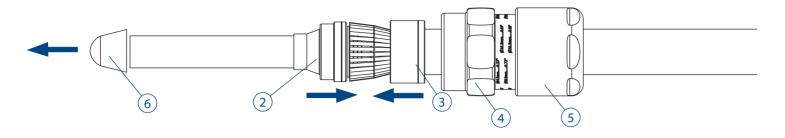


C: Installing Cable Gland

STEP 1: Install Diaphragm Seal

Push the cable through the diaphragm seal ②. Discard protective cap ⑥.

Push armour/braid up to spigot shoulder. Slide clamping ring ③ up to the armour/braid by hand.



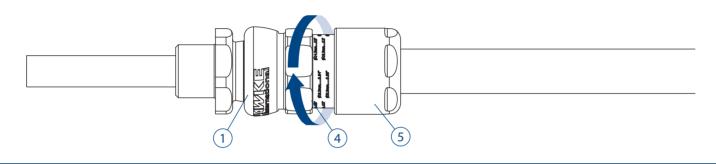
STEP 2: Clamp Armour/Braid

Slide middlenut @ up to entry and hand tighten.

Support the cable to prevent it twisting.

Grip the entry ① with a spanner/wrench.

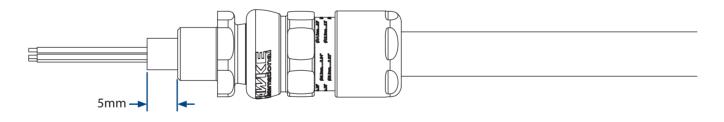
Use a second spanner/wrench to tighten half to three quarters of a turn.



STEP 3: Strip Inner Sheath

Strip inner sheath to suit application.

Recommended exposed length of inner sheath is 5mm as shown below.

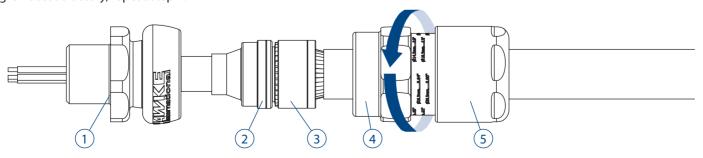


STEP 4: Inspect Armour/Braid

Unscrew the middlenut ④. The armour clamp ring ③ should now be locked in place.

Visually inspect that the armour/braid has been successfully clamped between the spigot ② and the armour clamp ring ③.

If clamping is not satisfactory, repeat step 2.



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Product supplied may differ from that shown

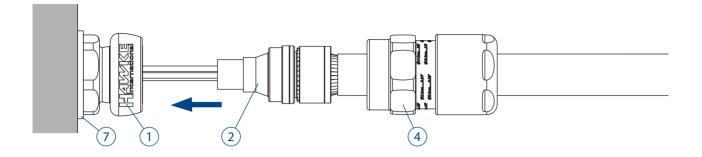
15 20 25 30 35

STEP 5: Fit to Enclosure

Use a wrench to fit entry \odot into enclosure. If required, use the appropriate IP washer \odot .

Slide cable through entry ① until diaphragm ② is seated in the entry.

Hand tighten the middlenut ④ to entry and add 1/4 turn with a wrench.

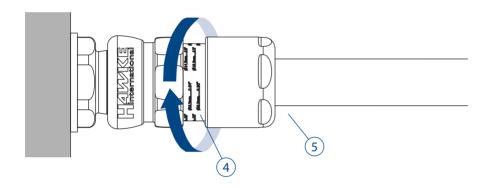


STEP 6: Install Backnut

Tighten the backnut © until a seal is formed around the cable.

Use a wrench/spanner to grip the middlenut ④.

While preventing the middlenut ④ turning, use a second wrench to apply one further full turn to the backnut ⑤.

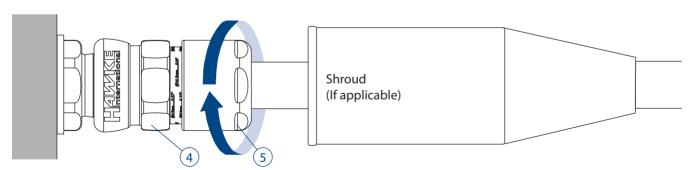


STEP 7: Inspect Backnut

Use the middlenut 9 guide as an indication that the backnut 5 is in the correct position to suit cable diameter.

A diameter scale below is provided to assist this process.

Slide shroud over cable gland if applicable.



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55, 60, 65, 70, 75, 80 Diameter Scale (mm)
| | | | | | | | | | | | | | | | | Correct when printed A4 Booklet Style

Technical Information 153 UNIV



TECHNICAL DATA

Cable Gland Type: 153 UNIV

Equipment Type: Industrial General Purpose Ingress Protection: IP66, IP67, IP68*, IP69, NEMA 4X

*30m for 7 days with thread sealant; 10m for 24hrs no thread sealant, Os-C size

only

Operating Temp: -60°C to +80°C

ACCESSORIES

Hawke offer the following accessories to enable correct sealing and

ground of cable gland.

Shroud: For additional corrosion protection
Locknut: To secure gland into position
Sealing Washer: For additional ingress protection
Earth Tag: For external bonding point

Serrated Washer: To prevent vibration loosening locknuts

INSTALLATION NOTES

- 1. All cable glands must be installed by a suitably trained and competent individual.
- 2. Entry threads are in accordance with Metric BS3643 or NPT B1.20.1
- 3. Installer must check material compatability with enclosure and environment.
- 4. To maintain IP66/IP67/IP69, Hawke certified sealing washer or other approved sealing method must be used.
- 5. Sealing face surface must be smooth and free from damage
- 6. Wall thicknesses depended on thread length or retention type (locknut etc).
- 7. All entries must be installed perpendicular to the mounting surface.

CABLE GLAND SELECTION TABLE												
Size				Cable								
			Inner Sheath		Outer Sheath		Steel Wire <i>I</i> Tape/B	Max	Hexagon Dimensions			
Ref.			Min.	Max.	Min. Max.		Orientation 1	Orientation 2	Length	Across Flats	Across Corners	
Os ¹	M20	1/2"	3.5	8.1	5.5	12.0	0.8/1.25	0/0.8	72.5	24.0	26.5	
O ¹	M20	1/2"	6.5	11.4 9.5		16.0	0.8/1.25	0/0.8	72.5	24.0	26.5	
Α	M20	1/2" - 3/4"	8.4	14.3	12.5	20.5	0.8/1.25	0/0.8	75.3	30.0	32.5	
В	M25	3⁄4" - 1"	11.1	19.7	16.9	26.0	1.25/1.6	0/0.7	81.0	36.0	39.5	
С	M32	1" - 1¼"	17.6	26.5	22.0	33.0	1.6/2.0	0/0.7	87.0	46.0	50.5	
C2	M40	11⁄4" - 11⁄2"	23.1	32.5	28.0	41.0	1.6/2.0	0/0.7	96.3	55.0	60.6	
D	M50	1½" - 2"	28.9	42.3/44.4	36.0	52.6	1.8/2.5	0/1.0	123.0	65.0	70.8	
Е	M63	2" - 2½"	39.9	54.3/56.3	46.0	65.3	1.8/2.5	0/1.0	119.5	80.0	88.0	
F	M75	2½" - 3"	50.5	65.3/68.2	57.0	78.0	1.8/2.5	0/1.0	126.3	95.0	104.0	

1 - 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.

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	Temperatire Range	Resistance to Salt and Sulpher Dioxide Laden Atmospheres	Single Orifice Seal	Multi-Orifice Seal
					Type	Category	Class			Category		IP66/ IP67	-60° to 80°			
	Υ	Х	Χ	Х	Α	8	В	Υ	Υ	C	Χ	Υ	Y	Υ	Υ	Х

EU Declaration of Conformity in accordance with European Directive 2014/34/EU

Standards used: EN 62444:2013

On behalf of the aforementioned 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.

A. Reid

Technical Manager