

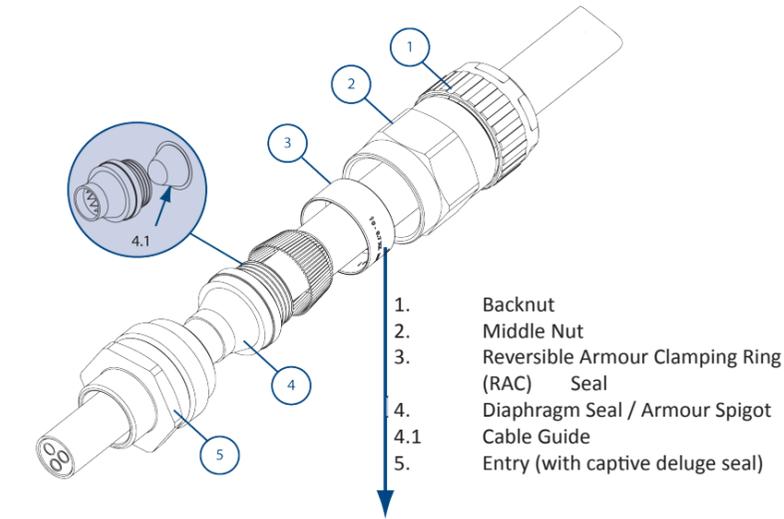
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SINUS
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EXPLOSION-PROOF CABLE GLAND - Type 501/453
Manual



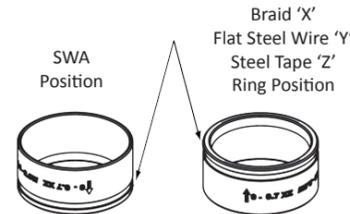
Operating temperature range -60°C +80°C



Certification Details
 Gland Type: 501/453 /UNIV
 Ex d IIC Gb / Exe II Gb, ExnR IIC Gc/Extb IIIC Db
 Baseefa06ATEX0057X Ex II 2 GD IP66 CE
 IECEx BAS06.0014X
 CEPEL 01.0063X
 GOST R No: POCC GB.605.B03785
 CSA us No: 1015065 (LR 78713-7)
 CNex12.3452X

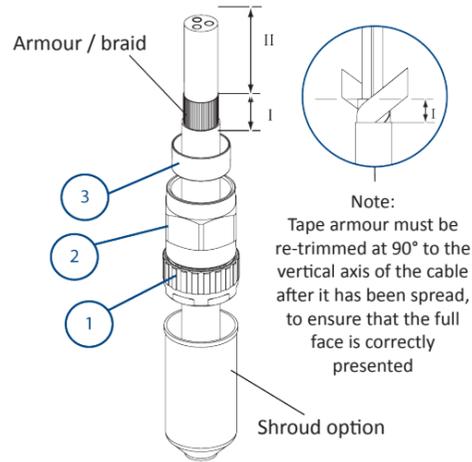
Reversible Armour Clamping Ring (RAC)

General identification ring orientation for:



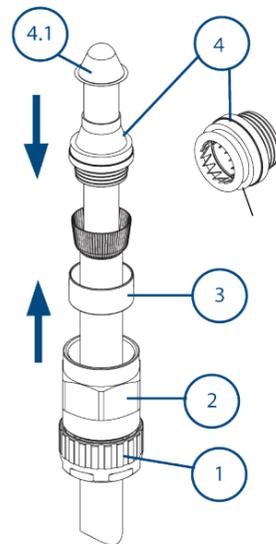
IMPORTANT: The arrowhead indicating the correct armour thickness or type should point towards the equipment

Cable preparation



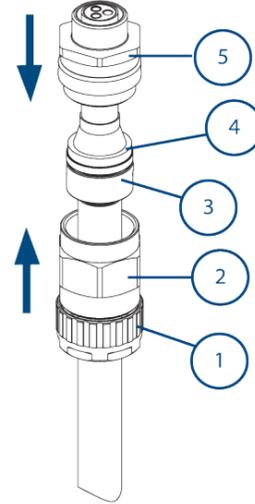
A Strip cable to suit equipment as shown above and expose the armour / braid 'l'.
 'l'=20 mm for cable gland sizes Os to C
 'l'= 25 mm for cable glands sizes C2 to F
 'l1'= to suit equipment.
 If required, fit shroud

Gland preparation

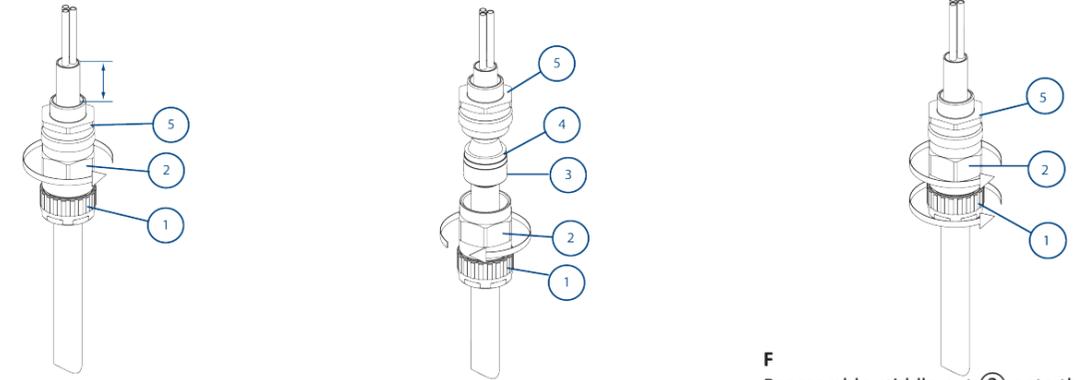


B Push the cable through the diaphrag seal / armour spigot (4). Pre-fitted cable guide 4.1 can now be discarded. The diaphrag seal can be rolled back to ease assembly if required. Spread armour / braid over the diaphrag seal / armour spigot (4) until the end of the armour / braid is up against the shoulder of the armour cone. Position the armour clamping ring (3).

NOTE: Cable acceptance sizes are marked on the diaphrag seal, clamping ring and backnut.



C Place the entry (5) and position over the diaphrag seal / armour spigot (4). Move the sub/assembly (1) and (2) up to meet the entry (5).



D Hold the entry (5) in position with a spanner / wrench to prevent rotation. Hand tighten the middle nut (2) to the entry (5) and turn a further 1/2 to 3/4 of a turn with a spanner / wrench.

E Unscrew the middle nut (2) and visually inspect that the armour / braid has been successfully clamped between the diaphrag seal / armour spigot (3). If armour / braid not clamped, repeat assembly.

F Reassemble middle nut (2) onto the entry component (5). Tighten up the middle nut (2) until hand tight, then using a wrench / spanner, turn the nut through 1/2 turn. Hand tighten the backnut (1) to form 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).

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.

Note: The deluge seal on this gland locates on assembly and requires no further action. Locate shroud over cable gland, if applicable.

CABLE GLAND SELECTION TABLE

Size Ref.	Entry Thread Size		Cable Acceptance Details						Compressed Length	Maximum Length	Hexagon Dimensions	
	Metric	NPT	Inner sheath		Outer Sheath		Armour Braid				Across Flats	Across Corners
			Min.	Max.	Min.	Max.	Orientation 1	Orientation 2				
Os	M20*	1/2"	3.5	8.1	5.5	12.0	0.8/1.25	0/0.8	61.6	72.8	24.0	26.5
O	M20*	1/2"	6.5	11.4	9.5	16.0	0.8/1.25	0/0.8	61.6	72.8	24.0	26.5
A	M20	1/2" - 3/4"	8.4	14.3	12.5	20.5	0.8/1.25	0/0.8	63.0	74.2	30.0	32.5
B	M25	3/4" - 1"	11.1	19.7	16.9	26.0	1.25/1.6	0/0.7	69.9	79.7	36.0	39.5
C	M32	1" - 1 1/4"	17.6	26.5	22.0	33.0	1.6/2.0	0/0.7	73.2	83.7	46.0	50.5
C2	M40	1 1/4" - 1 1/2"	23.1	32.5	28.0	41.0	1.6/2.0	0/0.7	77.9	90.6	55.0	60.6
D	M50	1 1/2" - 2"	28.9	44.4/42.3	36.0	52.6	1.8/2.5	0/1.0	93.5	112.6	65.0	70.8
E	M63	2" - 2 1/2"	39.9	56.3/54.3	46.0	65.3	1.8/2.5	0/1.0	94.0	110.2	80.0	88.0
F	M75	2 1/2" - 3"	50.5	65.3/68.2	57.0	78.0	1.8/2.5	0/1.0	103.0	119.7	95.0	104.0

* 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 10.9 mm.

For more information about choosing the correct cable gland, find the selection diagram on the last page.

SCHEDULE OF LIMITATIONS

- 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.
- 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.
- 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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