



Cable Gland Type 501/453/RAC



Flameproof and Increased Safety

CABLE GLAND SELECTION TABLE

Size Ref.	Entry Thread Size		Cable Acceptance Details								'G'		Hexagon Dimensions	
			Inner Sheath 'A'		Outer Sheath 'B'		'C' Armour/Braid		Across Flats	Across Corners				
	Metric	NPT* Std./Option	Standard Seal		Alternative Seal (S)		Min.	Max.			Orientation 1	Orientation 2		
			Min.	Max.	Min.	Max.								
Os	M20 ²	½"	3.0	8.0	-	-	5.5	12.0	0.9/1.25	0/0.7	65.1	24.0	27.7	
O	M20 ²	½"	6.5	11.9	-	-	9.5	16.0	0.9/1.25	0/0.7	65.1	24.0	27.7	
A	M20	¾"/½"	10.0	14.3	8.5	13.4	12.5	20.5	0.9/1.25	0/0.7	66.1	30.0	34.6	
B	M25	1"/¾"	12.5	20.2	9.5	15.4	16.9	26.0	1.25/1.6	0/0.7	71.4	36.0	41.6	
C	M32	1¼"/1"	19.0	26.5	14.5	21.2	22.0	33.0	1.6/2.0	0/0.7	75.2	46.0	53.1	
C2	M40	1½"/1¼"	25.0	32.5	22.0	28.0	28.0	41.0	1.6/2.0	0/0.7	77.1	55.0	63.5	
D	M50	2"/1½"	31.5	44.4/42.3	27.5	34.8	36.0	52.6	1.8/2.5	0/1.0	90.3	65.0	75.1	
E	M63	2½"/2"	42.5	56.3/54.3	39.0	46.5	46.0	65.3	1.8/2.5	0/1.0	96.7	80.0	92.4	
F	M75	3"/2½"	54.5	68.2/65.3	48.5	58.3	57.0	78.0	1.8/2.5	0/1.0	96	95.0	109.6	

Larger cable glands available in 501/453 design.

G	M80	3½"	67.0	73.0	-	-	75.0	89.5	#	#	95.6	106.4	123.0
H	M90	3½"	67.0	77.6	-	-	75.0	89.5	#	#	95.6	115.0	132.8
J	M100	4"	75.0	91.6	-	-	88.0	104.5	#	#	95.6	127.0	146.7

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

² Sizes Os and O are available with an M16 thread size. For O size with M16 thread, the maximum cable inner sheath diameter is 10.9mm.

³ This cable gland type is also available for use with lead sheath cables - 501/453/RAC/L. Contact Hawke sales for more information.

⁴ Deluge protection option available.

Dedicated armour clamping rings are fitted. Please specify armour type and size when ordering.

General Information

Os - F size metric entry threads are 1.5mm pitch as standard.

For G size glands and above, a 2mm pitch is supplied as standard.

(1.5mm pitch with 15mm length of thread can be supplied) please specify when ordering.

Thread length is 15mm for sizes Os to F and 20mm for sizes G to J.

All dimensions in millimetres

(except* where dimensions are in inches).

Assembly instruction data sheet No. A.I. 302.

Accessories including locknuts, sealing washers, serrated washers, earth tags, shrouds, adaptors and reducers available. See pages 53 - 57.

Materials & Finishes

The 501/453/RAC cable gland is manufactured in brass (standard), nickel plated brass, 316 stainless steel or aluminium.

Brass NPT entries are nickel plated as standard.

Cable Gland Ordering Examples

Cable Gland Type/Size/Thread

e.g. 501/453/RAC/C/M32
501/453/RAC/C/1¼" NPT

Cable Gland with Alternative Seal (S)

e.g. 501/453/RAC/C/M32/S
501/453/RAC/C/1¼" NPT/S

Alternative Reversible Armour Clamping Rings (RAC)

Size Ref.	SELECTION TABLE	
	Steel Wire Armour/Braid/Tape	
	Orientation 1	Orientation 2
O/Os	0.8 - 1.0	0.4 - 0.8
A	0.8 - 1.0	0.4 - 0.8
B	0.9 - 1.25	0.5 - 0.9
C	1.2 - 1.6	0.6 - 1.2
C2	1.2 - 1.6	0.6 - 1.2
D	1.45 - 1.8	1.0 - 1.45
E	1.45 - 1.8	1.0 - 1.45
F	1.45 - 1.8	1.0 - 1.45

Cable Gland with Alternative Clamping Ring (AR)

e.g. 501/453/RAC/C/M32/AR
501/453/RAC/C/1¼" NPT/AR

Application

- Outdoor or Indoor use.
- For use with single wire armoured 'W', wire braided 'X' and steel tape armoured 'Z', elastomer and plastic insulated cables.
- See technical section of catalogue for installation rules and regulations.

Features

- Provides armour clamping using one clamping arrangement for all armour/braid types.
- Provides a seal on the cables inner sheath.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.

Technical Data

- Flameproof Exd and Increased Safety Exe. II 2 GD
- Baseefa 06ATEX0056X.
- IECEx BAS06.0013X.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Suitable for use in Gas Groups IIA, IIB and IIC.
- Construction and test standards EN 50014, EN 50018, EN 50019 and EN 50281-1-1. IEC 60079-0, IEC 60079-1 and IEC 60079-7.
- IP66, IP67 and IP68 (30 metres for 7 days) ingress protection to IEC 60529, EN 60529 and NEMA 4X.
- DTS01 deluge protection certified by ITS.
- Operating temperature range -60°C to +80°C as standard.
- Alternative Certification Options Available.

Exd IIC/Exe II.

GOST R-Exd IICU/Exe IIU.

Approved for use in Kazakhstan.

AUS-Exd IIC/Exe II.

Marine Approval.

501/453/RAC Cable Gland