



Cable Gland Type 501/453/Universal



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	Min.	Max.	Min.	Max.	Orientation 1	Orientation 2			
Os	M20 ²	1/2"	3.0	8.1	5.5	12.0	0.8/1.25	0/0.8	64.4	24.0	27.7
O	M20 ²	1/2"	6.5	11.9	9.5	16.0	0.8/1.25	0/0.8	64.4	24.0	27.7
A	M20	3/4"/1/2"	8.4	14.3	12.5	20.5	0.8/1.25	0/0.8	65.4	30.0	34.6
B	M25	1"/3/4"	11.1	20.2	16.9	26.0	1.25/1.6	0/0.7	71	36.0	41.6
C	M32	1 1/4"/1"	17.6	26.5	22.0	33.0	1.6/2.0	0/0.7	76	46.0	53.1
C2	M40	1 1/2"/1 1/4"	23.1	32.5	28.0	41.0	1.6/2.0	0/0.7	78.1	55.0	63.5
D	M50	2"/1 1/2"	28.9	44.4/42.3 ¹	36.0	52.6	1.8/2.5	0/1.0	93.1	65.0	75.1
E	M63	2 1/2"/2"	39.9	56.3/54.3 ¹	46.0	65.3	1.8/2.5	0/1.0	99	80.0	92.4
F	M75	3"/2 1/2"	50.5	68.2/65.3 ¹	57.0	78.0	1.8/2.5	0/1.0	101.9	95.0	109.6

Larger cable glands available in 501/453 design with a compression type inner seal.

G	M80	3 1/2"	67.0	73.0	75.0	89.5	#	#	90.6	106.4	123.0
H	M90	3 1/2"	67.0	77.6	75.0	89.5	#	#	90.6	115.0	132.8
J	M100	4"	75.0	91.6	88.0	104.5	#	#	90.6	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.

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. 300 for sizes Os to F.
Assembly instruction data sheet No. A.I. 303 for sizes G to J.

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

Materials & Finishes

The 501/453/Universal 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/UNIV/C/M32
501/453/UNIV/C/1 1/4" NPT

Alternative Reversible Armour Clamping Rings (RAC)

Size Ref.	SELECTION TABLE	
	Steel Wire Armour/Braid/Tape	
	Orientation 1	Orientation 2
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/UNIV/C/M32/AR
501/453/UNIV/C/1 1/4" 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.

For particular use with :-

Cables that exhibit "Cold Flow" characteristics.

- 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 diaphragm seal on the cables inner sheath which will not damage cable that has "Cold Flow" characteristics.
- Provides an outer deluge seal to prevent moisture ingress to the cable armour/braid.
- 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 06ATEX0057X for sizes Os to F.
- IECEx BAS06.0014X for sizes Os to F.
- Baseefa 06ATEX0056X for sizes G to J.
- IECEx BAS06.0013X for sizes G to J.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Suitable for use in Gas Groups IIA, IIBand IIC.
- Construction and test standards EN 50014, EN 50018, EN 50019 and EN 50281-1-1. IEC 60079-0, IEC 60079-1, IEC 60079-7 and IEC 61241-1.
- 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.
- BR-Exd IIC/Exe II.
- R-Exd IICU/Exe IIU.
- Approved for use in Kazakhstan.
- Exd IIC/Exe II/DIP A21 IP66.
- Marine Approval.
- Marine Approval.

501/453/Universal Cable Gland