



Cable Gland Type 501/453/Universal



Flameproof and Increased Safety

CABLE GLAND SELECTION TABLE

Size Ref.	Entry Thread Size		Thread Length 'H'	Cable Acceptance Details						'G'		Hexagon Dimensions	
	Metric	NPT* Std./Option		Inner Sheath 'A'		Outer Sheath 'B'		'C' Armour/Braid				Across Flats	Across Corners
				Min.	Max.	Min.	Max.	Orientation 1	Orientation 2				
Os	M20 ²	½"	15	3.0	8.1	5.5	12.0	0.9/1.25	0/0.7	64.4	24.0	27.7	
O	M20 ²	½"	15	7.5	11.9	9.5	16.0	0.9/1.25	0/0.7	64.4	24.0	27.7	
A	M20	¾"/½"	15	9.4	14.3	12.5	20.5	0.9/1.25	0/0.7	65.4	30.0	34.6	
B	M25	1"/¾"	15	12.1	20.2	16.9	26.0	1.25/1.6	0/0.7	71	36.0	41.6	
C	M32	1¼"/1"	15	17.6	26.5	22.0	33.0	1.6/2.0	0/0.7	76	46.0	53.1	
C2	M40	1½"/1¼"	15	23.1	32.5	28.0	41.0	1.6/2.0	0/0.7	78.1	55.0	63.5	
D	M50	2"/1½"	15	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	2½"/2"	15	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"/2½"	15	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. See page 23.

G	M80	3½"	20	67.0	73.0	75.0	89.5	#	#	90.6	106.4	123.0
H	M90	3½"	20	67.0	77.6	75.0	89.5	#	#	90.6	115.0	132.8
J	M100	4"	20	75.0	91.6	88.0	104.5	#	#	90.6	127.0	146.7

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

²Sizes 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.

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

General Information

All dimensions in millimetres (except* where dimensions are in inches).
Dedicated armour clamping rings are fitted. Please specify armour type and size.

Assembly instruction data sheet No. A.I. 300.

For sizes Os to F.

Assembly instruction data sheet No. A.I. 329.

For sizes G to J.

Accessories including locknuts, sealing washers, serrated washers, earth tags, shrouds, adaptors and reducers available. See pages 44 - 48.

Materials & Finishes

The 501/453/Universal cable gland is manufactured as standard in brass, stainless steel and aluminium. NPT entries, nickel plated as standard. Full nickel plating by electroplating or electroless plating is also available, as are other materials on request.

Cable Gland Ordering Examples

Cable Gland Type/Size/Thread

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

Cable Gland with Alternative Clamping Ring (AR)

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

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□

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 EExd and Increased Safety EExe. Ex II 2 GD
- Baseefa Certificate No. BAS 01 ATEX 2078X. For Os - F.
- Baseefa Certificate No. BAS 01 ATEX 2296X. For G - J.□
- 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.
- CEPEL BR-Exd IIC/Exe II.
- PGOST R-Exd IICU/Exe IIU.
- AUS-Exd IIC/Exe II.