



# 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 <sup>2</sup>	1/2"	3.0	8.1	5.5	12.0	0.9/1.25	0/0.7	64.4	24.0	27.7		
O	M20 <sup>2</sup>	1/2"	7.5	11.9	9.5	16.0	0.9/1.25	0/0.7	64.4	24.0	27.7		
A	M20	3/4"/1/2"	9.4	14.3	12.5	20.5	0.9/1.25	0/0.7	65.4	30.0	34.6		
B	M25	1"/3/4"	12.1	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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	3 1/2"	67.0	73.0	75.0	89.5	#	#	90.6	106.4	123.0
H	M90	3 1/8"	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

<sup>1</sup> Smaller value is applicable when selecting reduced NPT entry option.

<sup>2</sup> 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.

### General Information

All Metric entry threads are 1.5mm pitch medium fit.

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 available.

### Cable Gland Ordering Examples

**Cable Gland Type/Size/Thread**

e.g. 501/453/UNIV/C/M32

501/453/UNIV/C/1 1/4" NPT

**Cable Gland with Alternative Clamping Ring (AR)**

e.g. 501/453/UNIV/C/M32/AR

501/453/UNIV/C/1 1/4" NPT/AR

### Alternative Reversible Armour Clamping Rings (RAC)

Size Ref.	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 2I 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.
- BR-Exd IIC/Exe II.
- GOST R-Exd IICU/Exe IIU.
- AUS-Exd IIC/Exe II.

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