

# **Cable Gland Type** 501/453/Universal ATEX (Ex) (CE

Flameproof and Increased Safety

	Entry Thread		Cable Acceptance Details							Hexagon	
Size	S	Size		Inner Sheath		Outer Sheath		'C' Armour/Braid		Dimensions	
Ref.		NPT*		'A'	'B'				'G'	Across Across	
	Metric	Std./ Option	Min.	Max.	Min.	Max.	Orientation I	Orientation 2		Flats	Corners
Os	M20*	1⁄2"	3.0	8.1	5.5	12.0	0.9/1.25	0/0.7	64.4	24.0	27.7
0	M20*	1⁄2"	7.5	11.9	9.5	16.0	0.9/1.25	0/0.7	64.4	24.0	27.7
А	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
В	M25	"/³⁄4"	12.1	20.2	16.9	26.0	1.25/1.6	0/0.7	71	36.0	41.6
С	M32	1⁄4"/ "	17.6	26.5	22.0	33.0	1.6/2.0	0/0.7	76	46.0	53.I
C2	M40	1⁄2"/   1⁄4"	23.I	32.5	28.0	41.0	1.6/2.0	0/0.7	78.1	55.0	63.5
D	M50	2"/1½"	28.9	44.4/42.3	36.0	52.6	1.8/2.5	0/1.0	93.1	65.0	75.1
Е	M63	21/2"/2"	39.9	56.3/54.3	46.0	65.3	1.8/2.5	0/1.0	99	80.0	92.4
F	M75	3"/21/2"	50.5	68.2/65.3	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.

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G	M80	31⁄2"	67.0	73.0	75.0	89.5	#	#	90.6	106.4	123.0
Н	M90	31⁄2"	67.0	77.6	75.0	89.5	#	#	90.6	115.0	132.8
	M100	4"	75.0	91.6	88.0	104.5	#	#	90.6	127.0	146.7

# **General Information**

All Metric entry threads are 1.5mm pitch medium fit.

All dimensions in millimetres

(except\* where dimensions are in inches). Sizes Os and O are available with an MI6 thread size. For O size with MI6 thread, the maximum cable outer sheath diameter is 10.9mm.

# 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.

## **Materials & Finishes**

The 501/453/Universal cable gland is manufactured as standard in brass and stainless steel. 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/11/4" NPT

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

e.g. 501/453/UNIV/C/M32/AR 501/453/UNIV/C/11/4" NPT/AR Alternative Reversible Armour Clamping Rings (RAC)

SELECTION TABLE						
Size Ref.	Steel Wire Armour/Braid/Tape					
	Orientation I	Orientation 2				
O/Os	0.8 - 1.0	0.4 - 0.8				
Α	0.8 - 1.0	0.4 - 0.8				
В	0.9 - 1.25	0.5 - 0.9				
С	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				

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

# 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. 🐼 II 2 GD
- BASEEFA Certificate No. • BAS 01 ATEX 2078X. For Os - F.
- BASEEFA Certificate No. . BAS 01 ATEX 2296X. For G - I.
- Suitable for use in Zone I, 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 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.
  - + Sterne II.
  - CVCEPEL BR-Exd IIC/Exe II.
  - **PC**GOST R-Exd IICU/Exe IIU.

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