

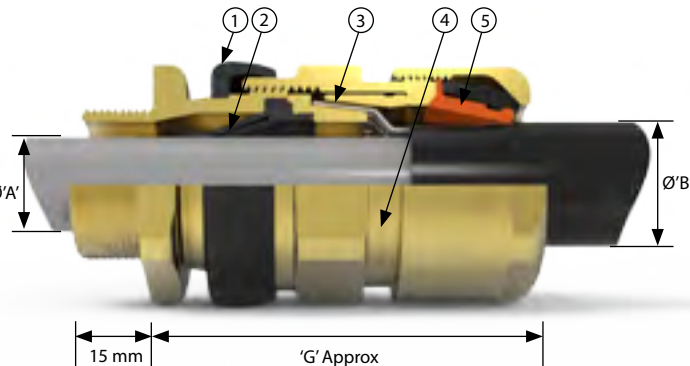
501/453/UNIV

Flameproof, Increased Safety, Dust Protection & Restricted Breathing
Class - Zones

Certified ATEX / IECEx / c CSA us



- 1 Inspectable Deluge Seal
- Offering IP66, IP67, IP68 & IP69 Ingress Protection
- 2 Passive diaphragm seal
- Suitable for cables exhibiting 'Cold Flow.' Fully inspectable
- 3 Reversible Armour Clamp - For all types of armour and braid
- 4 Patented Cable Gland Tightening Guide
- Helps prevent damage caused by over tightening
- 5 Unique Rear Seal - Offering ultimate sealing over an extremely wide cable acceptance range.



The 501/453 Universal Cable Gland is dual certified Exe/Exd, robust and for use with single wire armour 'W', wire braid 'X', steel tape armour 'Z', elastomer and plastic insulated cables. For particular use with cables that exhibit 'Cold Flow' characteristics. This cable gland is the first and only cable gland capable of being upgraded to a barrier type solution in the field, see across the page for more details. See technical section for installation rules and regulations.



International Approvals

Cable Gland Selection Table

Size Ref.	Entry Thread Size		Cable Acceptance Details						'G'	Hexagon Dimensions	
	Metric	NPT* Standard or Option	Inner Sheath 'ØA'		Outer Sheath 'B'		Armour / Braid 'C'			Across Flats	Across Corners
			Min.	Max.	Min.	Max.	Orientation 1	Orientation 2			
Os	M20 ²	½"	3.5	8.1	5.5	12.0	0.8 / 1.25	0.0 / 0.8	58.4	24.0	26.5
O	M20 ²	½"	6.5	11.4	9.5	16.0	0.8/1.25	0.0 / 0.8	58.4	24.0	26.5
A	M20	¾" or ½"	8.4	14.3	12.5	20.5	0.8 / 1.25	0.0 / 0.8	59.6	30.0	32.5
B	M25	1" or ¾"	11.1	19.7	16.9	26.0	1.25 / 1.6	0.0 / 0.7	66.4	36.0	39.5
C	M32	1¼" or 1"	17.6	26.5	22.0	33.0	1.6 / 2.0	0.0 / 0.7	71.2	46.0	50.5
C2	M40	1½" or 1¼"	23.1	32.5	28.0	41.0	1.6 / 2.0	0.0 / 0.7	75.2	55.0	60.6
D	M50	2" or 1½"	28.9	44.4 / 42.3 ¹	36.0	52.6	1.8 / 2.5	0.0 / 1.0	98.0	65.0	70.8
E	M63	2½" or 2"	39.9	56.3 / 54.3 ¹	46.0	65.3	1.8 / 2.5	0.0 / 1.0	94.4	80.0	88.0
F	M75	3" or 2½"	50.5	68.2 / 65.3 ¹	57.0	78.0	1.8 / 2.5	0.0 / 1.0	102.0	95.0	104.0
G	M80	3½"	67.0	73.0	75.0	89.5	2.0 / 3.5	0.0 / 1.0	90.6	106.4	115.0
H	M90	3½"	67.0	77.6	75.0	89.5	2.0 / 3.5	0.0 / 1.0	90.6	115.0	130.0
J	M100	4"	75.0	91.6	88.0	104.5	2.5 / 4.0	0.0 / 1.0	90.6	127.0	142.0

Os-F size metric entry threads are 1.5mm pitch as standard, 15mm length of thread. For G size glands and above, a 2mm pitch is supplied as standard, 20mm length of thread only (1.5mm pitch with 15mm length of thread can be supplied) please specify when ordering. G size and above are available in the 501/453/RAC design style. All dimensions in millimetres (except * where dimensions are in inches).

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
 For alternative Armour Clamping Ring see table on Page 10

Technical Data

ATEX/IECEx	
Type of Protection	Flameproof Exdb IIC Gb, Increased Safety Exeb IIC Gb, Dust Extb IIIC Db Ex II 2 GD
ATEX Classification	CML 19ATEX1268X CML
Area Classification	Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22
Construction & Test Standards	IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7, IEC/EN 60079-1 and IEC/EN 60079-31
Ingress Protection	IP66, IP67, IP68* (30 metres for 7 days) IP69 to IEC/EN 6052 (when installed with a Hawke IP washer)
Deluge Protection	Deluge Protection to DTS01
Operating Temperature	-60°C to +80°C
c CSA us	
c CSA us Classification	Certificate No's: CSA1015065
Area Classification	Class I, Zone I, Aex eb IIC Gb. Zone 21, AEXtb IIIC Db. Class I, Div.2 Groups ABCD; Class II Div.2, Groups EFG; Class III cCSA CI D2 ABCD CII D2 EFG CIII Exdb Exeb IIC Gb CSAus AEx eb IIC Gb AExtb IIIC Db CI Zn1 Zn21
Construction & Test Standards	UL 60079-0, UL 60079-1, UL 60079-7, ISA 60079-31, CSA 22.2 No: 60079-0, CSA 22.2 No: 60079-1, CSA 22.2 No: 60079-7, CSA 22.2 No: 60079-31, UL 2225

Suitable for use in C1D2 applications where permitted by the NEC

Ordering Information

Format for ordering is as follows: Alternative Clamping Ring (AR), add suffix AR to ordering information

Cable Gland Type	Size	Thread	Material	(Optional)
501/453/UNIV	C	M32	Brass	AR
501/453/UNIV	C	1¼" NPT	NP Brass	AR

Example Code: 501/453/UNIV C M32 Stainless