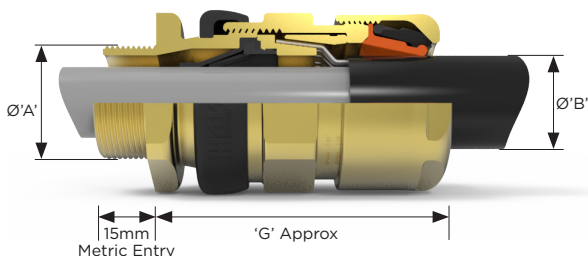


501/453/UNIV

Flameproof, Increased Safety, Dust Protection & Restricted Breathing

Class - Zones

Certified ATEX / IECEx / UKEX / c CSA us



Features

- Inspectable Deluge Seal - Offering IP66, IP67, IP68 & IP69 Ingress Protection
- Passive diaphragm seal - Suitable for cables exhibiting 'Cold Flow.' Fully inspectable
- Reversible Armour Clamp - For all types of armour and braid
- Patented Cable Gland Tightening Guide - Helps prevent damage caused by over tightening
- 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 below for more details. See technical section for installation rules and regulations.

Cable Gland Selection Table

Size Ref.	Entry Thread Size 'A'			Cable Acceptance Details						G' Max	Hexagon Dimensions	
	Metric		NPT*	Inner Sheath		Outer Sheath 'B'		Armour / Braid 'C'			Across Flats	Across Corners
	Thread Size	Thread Length2		Min.	Max.	Min.	Max.	Orientation 1	Orientation 2			
Os	M16 M20	15.0	½"	3.5	8.1	5.5	12.0	0.8 / 1.25	0.0 / 0.8	72.5	24.0	26.5
O	M16 M20	15.0	½"	6.5	10.9 11.4	9.5	16.0	0.8/ 1.25	0.0 / 0.8	72.5	24.0	26.5
A	M20	15.0	¾" or ½"	8.4	14.3	12.5	20.5	0.8 / 1.25	0.0 / 0.8	75.3	30.0	32.5
B	M25	15.0	1" or ¾"	11.1	19.7	16.9	26.0	1.25 / 1.6	0.0 / 0.7	81.0	36.0	39.5
C	M32	15.0	1¼" or 1"	17.6	26.5	22.0	33.0	1.6 / 2.0	0.0 / 0.7	87.0	46.0	50.5
C2	M40	15.0	1½" or 1¼"	23.1	32.5	28.0	41.0	1.6 / 2.0	0.0 / 0.7	96.3	55.0	60.6
D	M50	15.0	2" or 1½"	28.9	44.4 / 42.31	36.0	52.6	1.8 / 2.5	0.0 / 1.0	123.0	65.0	70.8
E	M63	15.0	2½" or 2"	39.9	56.3 / 54.31	46.0	65.3	1.8 / 2.5	0.0 / 1.0	119.5	80.0	88.0
F	M75	15.0	3" or 2½"	50.5	68.2 / 65.31	57.0	78.0	1.8 / 2.5	0.0 / 1.0	126.3	95.0	104.0
G	M80	20.0	3½"	67.0	73.0	75.0	89.5	2.0 / 3.5	0.0 / 1.0	121.0	106.4	115.0
H	M90	20.0	3½"	67.0	77.6	75.0	89.5	2.0 / 3.5	0.0 / 1.0	121.0	115.0	130.0
J	M100	20.0	4"	77.0	91.6	88.0	104.5	2.5 / 4.0	0.0 / 1.0	121.0	127.0	142.0

All dimensions in millimetres (except * where dimensions are in inches) Os - F size metric entry threads are 1.5mm pitch as standard.

G - J size metric entry threads are 2mm pitch as standard. G - J size are only available in the 501/453/RAC design style.

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

² M16 - M75 also available in 15.0mm, 20.0mm, 22.0mm & 25mm thread lengths. M80-M100 Other thread lengths may be available upon request.

Ordering Information

If brass is required please omit material selection

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

Cable Gland Type	Size	Thread	Material	(Optional)
453U	C	M32		R
453U	C	1.25	NP	R

Example Code: 453UCM32R

Please note all NPT entries should be state as a decimal

Please refer to part code logic information page for further details on product options

Technical Data	
Material Options	Manufactured in Brass, Nickel Plated Brass or 316L Stainless Steel
Ingress Protection	IP66, IP67 IP68 (30 metres for 7 days, special conditions may apply) and IP69 to IEC/EN 60529 and NEMA 4X
Deluge Protection	to DTS01
Enclosure Protection	IK10 to IEC 62262
Operating Temperature	-60°C to +80°C
Applications	Suitable for use in Zone 1, Zone 21, Zone 2 and Zone 22
Approvals	
Protection Class	Ex II 2GD Ex db IIC Gb; Ex eb IIC Gb; Ex nR IIC Gc; Ex tb IIIC Db
ATEX Certificate No	CML 18ATEX1268X CML 19ATEX4507 (Ex nR)
IECEx Certificate No	CML 18.0131X CML 21.0012X (Ex nR)
UKEX Certificate No	CML 21UKEX1132X CML 21UKEX4133X (Ex nR)
Construction & Test Standards	IEC/EN 62444 (Anchorage Type D), IEC/EN 60079-0, 1, 7, 15, 31
Marine Approvals	ABS: 19-LD1876514-1-PDA BV: 43523/B0 DNV: TAE0000BS
Additional Certifications	CCC: 2020312313000318 EAC: EA3C KZ 7100841.01.01.03125 EQM: 20-11-27224/Q20-11-000979/NB0007 Inmetro: IEx 14.0272X KCs: 17-KA4BO-0138X to 0149X PESO: P450038 SONCAP: LCOGB049552-0500
NEC/CEC	
NEC Protection Class	Class I, Zone I, AEx eb IIC Gb; Zone 21, AEx tb IIIC Db
CEC Protection Class	Class I Div 2 ABCD, Class II Div 2 EFG and Class III Ex db IIC Gb; Ex eb IIC Gb
c CSA us Certificate	1015065
Construction & Test Standards	UL2225, UL1203, UL514B, CSA C22.2 NO. 0-10, CSA C22.2 NO. 174-18, CSA 22.2 60079-0, CSA 22.2 60079-1, CSA 22.2 60079-7 and CSA 22.2 60079-31

Alternative Reversible Armour Clamping Ring Size Selection		
Size Ref	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