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The 501/453/RAC 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. The gland provides an elastomeric seal on the cable inner sheath, and a low smoke, zero halogen IP and retention seal onto the cable outer sheath. See technical section for installation rules and regulations

Cable Gland Selection Table													
	Entry Thread Size 'A'		Cable Acceptance Details							Hexagon Dimensions			
Size Ref.	Metric	NPT*	Inner Sheath				Outer Sheath 'B'		Armour/Braid 'C'		'G'	Across	Across
			Standa			ive Seal (S)			Orientation	Orientation	-	Flats	Corners
			Min	Max	Min	Max	Min	Max	1	2			1
Os	M20 ²	1/2″	3.2	8.0	-	-	5.5	12.0	0.8 / 1.25	0.0/0.8	52.0	24.0	26.5
0	M20 ²	1/2″	6.5	11.9	-	-	9.5	16.0	0.8 / 1.25	0.0/0.8	52.0	24.0	26.5
А	M20	3⁄4" or 1⁄2"	10.0	14.3	9.0	13.4	12.5	20.5	0.8/1.25	0.0/0.8	53.0	30.0	32.5
В	M25	1" or ¾"	13.0	20.2	9.5	15.4	16.9	26.0	1.25 / 1.6	0.0/0.7	59.5	36.0	39.5
С	M32	1¼" or 1"	19.5	26.5	15.5	21.2	22.0	33.0	1.6 / 2.0	0.0 / 0.7	64.0	46.0	50.5
C2	M40	11/2" or 11/4"	25.0	32.5	22.0	28.0	28.0	41.0	1.6 / 2.0	0.0 / 0.7	68.3	55.0	60.6
D	M50	2" or 11/2"	31.5	44.4 / 42.3 ¹	27.5	34.8	36.0	52.6	1.8 / 2.5	0.0 / 1.0	79.0	65.0	70.8
E	M63	21/2" or 2"	42.5	56.3 / 54.3 ¹	39.0	46.5	46.0	65.3	1.8 / 2.5	0.0 / 1.0	78.4	80.0	88.0
F	M75	3" or 2½"	54.5	68.2 / 65.3 ¹	49.5	58.3	57.0	78.0	1.8 / 2.5	0.0 / 1.0	83.7	95.0	104.0
G	M80	31⁄2″	67.0	73.0	-	-	75.0	89.5	2.0 / 3.5	0.0 / 1.0	95.6	106.4	115.0
Н	M90	31⁄2″	67.0	77.6	-	-	75.0	89.5	2.0 / 3.5	0.0 / 1.0	95.6	115.0	130.0
J	M100	4″	77.0	91.6	-	-	88.0	104.5	2.5 / 4.0	0.0 / 1.0	95.6	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, 15mm length of thread. G - J size metric entry threads are 2mm pitch as standard, 20mm length of thread

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

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	Technical Data						
Material Options	Manufactured in Brass, Nickel Plated Brass or 316L Stainless Steel						
Ingress Protection	IP66, IP67 and IP68 (30 metres for 7 days, special instructions apply) to IEC/EN 60529 and NEMA 4X						
Enclosure Protection	IK10 to IEC 62262						
Deluge Protection	to DTS01						
Operating Temperature	-60°C to +100°C						
	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 19ATEX1167X CML 19ATEX4507X (Ex nR)						
IECEx Certificate No	CML 19.0045X CML 21.0012X (Ex nR)						
	CML 21UKEX1161X 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: 2020312313000313 EAC: No EA3C RU C-GB.HA91.B.00264/21 EQM: 20-11-27224/Q20-11-000979/NB0007 Inmetro: IEx 14.0272X KCs: 17-KA4BO-0129X to 0137X 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	CSA1015065						
Construction & Test Standards	UL 60079-0, UL 60079-7, UL 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, UL514B: UL1203: UL 2225						



HKE-DS-501/453/RAC-V7 January 2022



Alternative Reversible Armour Clamping Ring Size Selection						
Size Ref	Steel Wire Armour / Braid / Tape					
Sizerier	Orientation 1	Orientation 2				
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				

Ordering Information

Format for ordering is as follows: Alternative Seal (S), Alternative Ring (AR), add suffix S and/or AR to ordering information								
Cable Gland Type	Size	Thread	Material	(Optional)				
501/453/RAC	С	M32	Brass	AR				
501/453/RAC	С	1¼" NPT	Brass	S				

Order Example: 501/453/RAC C M32 BRASS AR

Cable Gland Tightening Guide

Whilst Hawke International goes to great lengths to ensure products are designed to be as simple to install, inspect and maintain as is possible, differing levels of competency, training and understanding can lead to glands being incorrectly installed. With hazardous area products, any poor installation issues can not only lead to expensive equipment failure, but also potential explosion risks and associated risk to life.

To help address issues with the overtightening of cable glands and the resultant damage to cables and seals, Hawke International has developed the patented **INBUILT TIGHTENING GUIDE**.

Without the need for fiddly measuring systems, the guide provides a permanent visual indication of the gland tightness through installation, inspection and maintenance.

How it works

The gland is permanently marked with various lines/numbers indicating the correct tightening level related to the cable diameter. Following the relevant cable gland Installation Instructions, the back seal should be tightened until a seal is formed on the cable outer sheath and then tightened one further turn.



Follow cable gland installation instructions until final stage – tightening of rear seal



Tighten backnut until a seal is formed onto the cable, then tighten one further turn



The backnut should be level with the marking guide corresponding to its diameter – this can be visually inspected and adjusted as necessary

