

The 453/RAC group I mining 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.

Cable Gland Selection Table													
	Entry Thread Size 'A'		Cable Acceptance Details								Hexagon Dimensions		
Size Ref.	Metric	NPT* Standard	Inner Sheath			Outer Sheath 'B'		Armour/Braid 'C'		'G'	Across	Across	
			Standard Seal Alternative		ve Seal (S)						Flats	Corners	
			Min	Max	Min	Max	Min	Max	Orientation 1	Orientation 2			
Os	M20	1/2″	3.2	8	-	-	5.5	12.0	0.8 / 1.25	0.0 / 0.8	52.0	24.0	26.5
0	M20	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	14.3	9	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	20.2	9.5	15.4	16.9	26.0	1.25 / 1.6	0.0 / 0.7	69.5	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	32.5	22	28.0	28.0	41.0	1.6 / 2.0	0.0 / 0.7	68.3	55.0	60.6
D	M50	2" or 1½"	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
Е	M63	21/2" or 2"	42.5	56.3 / 54.3 ¹	39	46.5	46.0	65.3	1.8 / 2.5	0.0 / 1.0	78.9	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
All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard													

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

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					
Operating Temperature	-60°C to +100°C					
Enclosure Protection IK10 to IEC 62262						
Approvals						
ATEX/IECEx Protection Class	Ex IM2 Ex db I Mb, Ex eb I Mb					
ATEX Certificate No	CML 19ATEX1165X					
IECEx Certificate No	CML 19.0043X					
UKEX Certificate No	CML 21UKEX1159X					
	IEC/EN 62444 (Anchorage Type D), IEC/EN 60079-0, 1, 7					
Additional Certifications	EAC: No EA3C RU C-GB.HA91.B.00264/21 EQM: 20-11-27224/Q20-11-000979/NB0007					
Alternative Reversible Armour Clamping Ring Size Selection						

Size Ref	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 Clamping Ring (AR), add suffix S and/or AR to ordering information								
Cable Gland Type	Size	Thread	Material	(Optional)				
M/453/RAC	С	M32	Brass	AR				
M/453/RAC	С	1¼" NPT	Brass	S				

Order Example: M/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

Note: The cable gland installation instructions have a printed cable OD measure for if the cable OD is not known



