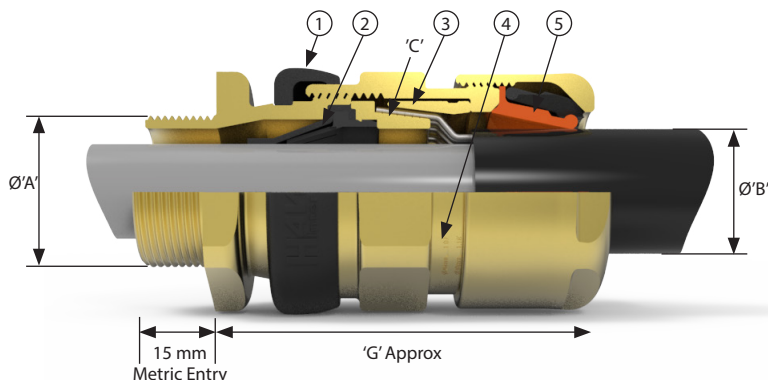




# 153/UNIV

Industrial gland for indoor or outdoor use



- **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 industrial 153/Universal Cable Gland is 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.

### Cable Gland Selection Table

Size Ref.	Entry Thread Size 'A'		Cable Acceptance Details						'G'	Hexagon Dimensions	
	Metric	NPT*	Inner Sheath		Outer Sheath 'B'		Armour/Braid 'C'			Across Flats	Across Corners
			Min	Max	Min	Max	Orientation 1	Orientation 2			
Os	M202	½"	3.5	8.1	5.5	12	0.8/1.25	0.0/0.8	58.4	24	26.5
O	M202	½"	6.5	11.4	9.5	16	0.8/1.25	0.0/0.8	58.4	24	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	32.5
B	M25	1" or ¾"	11.1	19.7	16.9	26	1.25/1.6	0.0/0.7	66.4	36	39.5
C	M32	1¼" or 1"	17.6	26.5	22	33	1.6/2.0	0.0/0.7	71.2	46	50.5
C2	M40	1½" or 1¼"	23.1	32.5	28	41	1.6/2.0	0.0/0.7	75.2	55	60.6
D	M50	2" or 1½"	28.9	44.4/42.3 <sup>1</sup>	36	52.6	1.8/2.5	0.0/1.0	98	65	70.8
E	M63	2½" or 2"	39.9	56.3/54.3 <sup>1</sup>	46	65.3	1.8/2.5	0.0/1.0	94.4	80	88.0
F	M75	3" or 2½"	50.5	68.2/65.3 <sup>1</sup>	57	78	1.8/2.5	0.0/1.0	102	95	104.0
G	M80	3½"	67	73	75	89.5	2.0/3.5	0.0/1.0	90.6	106.4	115.0
H	M90	3½"	67	77.6	75	89.5	2.0/3.5	0.0/1.0	90.6	115	130.0
J	M100	4"	75	91.6	88	104.5	2.5/4.0	0.0/1.0	90.6	127	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. For G size glands and above, a 2mm pitch is supplied as standard, 20mm length of thread (1.5mm pitch with 15mm length of thread can be supplied) please specify when ordering.

G size and above are available in the 153/RAC design style.

<sup>1</sup> Smaller value is applicable when selecting reduced NPT entry option.

<sup>2</sup> Sizes Os and O are available with an M16 thread size. For O size with M16 thread, the maximum cable outer sheath diameter is 10.9mm.

### Technical Data

Material Options	Manufactured in Brass, Nickel Plated Brass or 316L Stainless Steel
Construction & Test Standards	IEC/EN 62444 (Anchorage Type D)
Ingress Protection	IP66, IP67, IP69 to IEC/EN 60529 and NEMA 4X
Enclosure Protection	IK10 to IEC 62262
Deluge Protection	DTS01
Operating Temperature	-60°C to +80°C

### 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

### 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)
153/UNIV	C	M32	Brass	AR
153/UNIV	C	1¼" NPT	NP Brass	AR

Example Code: 153/UNIV C M32 Stainless

# 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*