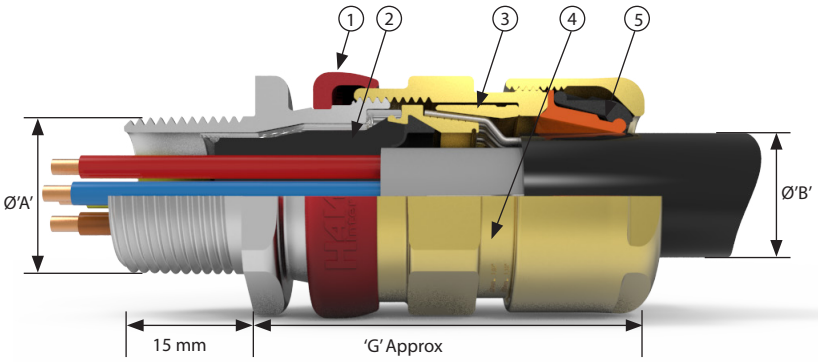
MADE IN BRITAIN

International Approvals

753

North American
Explosion proof, IECEx and ATEX Approved Flameproof Exd, Increased Safety Exe (Note: Dual Marked UL & ATEX /IECEx as standard)



1. Inspectable Deluge Seal - Offering IP66, IP67, IP68 & IP69 Ingress Protection
2. Transparent Elastomeric Fully Inspectable Compound Pot – compatible with both injectable resin and 2 part compound
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.

Dual certified exe/Exd group I mining barrier gland, providing a seal around individual cable cores, especially for cables that exhibit "cold flow" characteristics, are not effectively filled or have hygroscopic fillers. For use with single wire armour 'W', wire braid 'X', steel tape armour 'Z' elastomer and plastic insulated cables. The ICG/653/UNIVERSAL is available with either ExPress liquid barrier resin or QSP 2-part hand mix compound, both with a cure time of 30 minutes

Cable Gland Selection Table

Size Ref.	Entry Thread Size 'A'		Cable Acceptance Details							'G'	Hexagon Dimensions	
	Metric	NPT* Standard	Inner Jacket Cores			Outer Jacket 'B'		Armour / Braid 'C'			Across Flats	Across Corners
			Max Over Cores 'D'	Max Inner Jacket 'E'	Max No Cores	Min	Max	Orientation 1	Orientation 2			
Os	M20	½"	0.31"	0.32"	12.0	0.22"	0.47"	0.0315"/0.0492"	0"/0.0315"	2.3"	0.94"	1.04"
O	M20	½"	0.35"	0.46"	12.0	0.37"	0.63"	0.0315"/0.0492"	0"/0.0315"	2.3"	0.94"	1.04"
A	M20	¾" or ½"	0.43"	0.55"	15.0	0.49"	0.81"	0.0315"/0.0492"	0"/0.0315"	2.39"	1.18"	1.28"
B	M25	1" or ¾"	0.63"	0.78"	30.0	0.67"	1.02"	0.0492"/0.063"	0"/0.0276"	2.65"	1.42"	1.56"
C	M32	1¼" or 1"	0.86"	1.03"	42.0	0.87"	1.3"	0.063"/0.0787"	0"/0.0276"	2.88"	1.81"	1.99"
C2	M40	1½" or 1¼"	1.05"	1.27"	60.0	1.1"	1.61"	0.063"/0.0787"	0"/0.0276"	3.08"	2.17"	2.39"
D	M50	2"	1.48"	1.74"	80.0	1.42"	2.07"	0.0709"/0.0984"	0"/0.0394"	3.84"	2.56"	2.79"
E	M63	2½"	1.93"	2.20"	100.0	1.81"	2.57"	0.0709"/0.0984"	0"/0.0394"	3.68"	3.15"	3.46"
F	M75	3"	2.35"	2.68"	120.0	2.24"	3.07"	0.0709"/0.0984"	0"/0.0394"	4.11"	3.74"	4.09"

All dimensions in inches (except * where dimensions are in millietres). Os-F size metric entry threads are 1.5mm pitch as standard, 15mm length of thread.

[1] *UL approved only*

Technical Data

Type of Protection	Flameproof Exdb IIC Gb, Increased Safety Exeb IIC Gb and Dust Extb IIIC Db Ex II 2 GD
c UL us Classification	Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III
Area Classification	Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC
Construction & Test Standards	UL 2225, CSA C22.2 No. 174-18, UL 514B and CSA C22.2 NO. 18.3-12 , IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31
Ingress Protection	IP66, IP67 and IP68* (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X
Deluge Protection	to DTS01
Operating Temperature	-50°C to +80°C (UL) and -60°C to +85°C (ATEX/IECEx)
Alternative Certification	Options available: DNV Marine Approval, ABS Marine Approval

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
753	C	M32
153	C	1" NPT

Example Code: 753 C M32 EP Stainless Steel

Barrier Gland **Options**

ExPress barrier resin – a liquid injectable and fast curing resin, allowing for faster installation time than traditional 2-part compounds. Utilising a unique clear compound chamber allowing full visibility of the flameproof seal during installation and inspection, the ExPress barrier resin is unparalleled as a global solution.

QSP 2-part hand mix putty, simple to use with a cure time from 30 minutes. Particularly useful where termination space is limited or cables are running horizontally to the installation area. Can be inspected and repaired if necessary, allowing for the very highest level of safety

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.

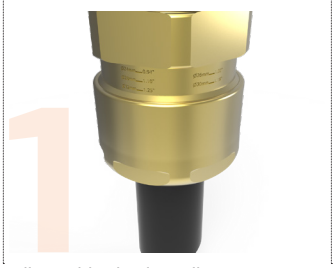
To help address issues with the overtightening of cable glands and the resultant damage to cables and seals, Hawke International has developed the patented **INBUILT TIGHTENING GUIDE**.

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

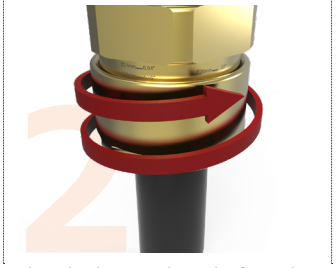
The gland is permanently marked with various lines/numbers indicating the correct tightening level related to the cable diameter. Following the relevant cable gland Installation Instructions, the back seal should be tightened until a seal is formed on the cable outer sheath and then tightened one further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

Step 1



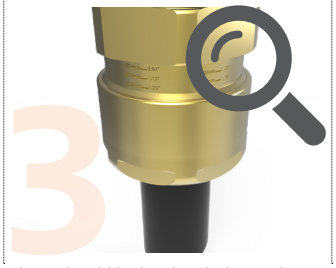
Follow cable gland installation instructions until final stage – tightening of rear seal

Step 2



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

Step 3



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