

EAC

IEČEx

INMETRO

JÅ

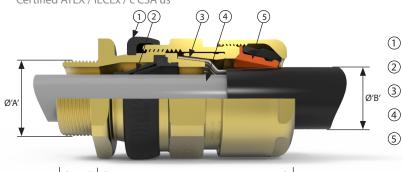
International Approvals

501/453 UNIVERSAL

Flameproof, Increased Safety, Dust Protection & Restricted Breathing Class - Zones

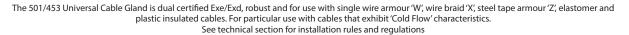


15 mm



'G' Approx

- 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.
 - 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.



Cable Gland Selection Table											
Size Ref.	Entry Thread Size 'A'		Cable Acceptance Details						Hexagon Dimensions		
	Metric	NPT* Standard or Option	Inner Sheath		Outer Sheath 'B'		Armour / Braid 'C'		'G'	Across	Across
	Metric		Min.	Max.	Min.	Max.	Orientation 1	Orientation 2		Flats	Corners
Os	M20 ²	1/2"	3.5	8.1	5.5	12.0	0.8 / 1.25	0.0 / 0.8	58.4	24.0	26.5
0	M20 ²	1/2"	6.5	11.4	9.5	16.0	0.8/1.25	0.0 / 0.8	58.4	24.0	26.5
Α	M20	3/4" or 1/2"	8.4	14.3	12.5	20.5	0.8 / 1.25	0.0 / 0.8	59.6	30.0	32.5
В	M25	1" or ¾"	11.1	19.7	16.9	26.0	1.25 / 1.6	0.0 / 0.7	66.4	36.0	39.5
C	M32	1¼" or 1"	17.6	26.5	22.0	33.0	1.6 / 2.0	0.0 / 0.7	71.2	46.0	50.5
C2	M40	1½" or 1¼"	23.1	32.5	28.0	41.0	1.6 / 2.0	0.0 / 0.7	75.2	55.0	60.6
D	M50	2" or 1½"	28.9	44.4 / 42.31	36.0	52.6	1.8 / 2.5	0.0 / 1.0	98.0	65.0	70.8
E	M63	2½" or 2"	39.9	56.3 / 54.3 ¹	46.0	65.3	1.8 / 2.5	0.0 / 1.0	94.4	80.0	88.0
F	M75	3" or 21/2"	50.5	68.2 / 65.3 ¹	57.0	78.0	1.8 / 2.5	0.0 / 1.0	102.0	95.0	104.0
G	M80	31/2"	67.0	73.0	75.0	89.5	2.0 / 3.5	0.0 / 1.0	90.6	106.4	115.0
Н	M90	31/2"	67.0	77.6	75.0	89.5	2.0 / 3.5	0.0 / 1.0	90.6	115.0	130.0
J	M100	4"	75.0	91.6	88.0	104.5	2.5 / 4.0	0.0 / 1.0	90.6	127.0	142.0

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 only (1.5mm pitch with 15mm length of thread can be supplied) please specify when ordering. G size and above are available in the 501/453/ RAC design style. All dimensions in millimetres (except * where dimensions are in inches).

Technical Data ATEX/IECEx Flameproof Exdb IIC Gb, Increased Safety Exeb IIC Gb, Dust Extb IIIC Db Ex II 2 GD CML 19ATEX1168X CML 19.0046X Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22 IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7, IEC/EN 60079-1 and IEC/EN 60079-31 IP66, IP67, IP68 (30 metres for 7 days) and IP69 to IEC/EN 60529 and NEMA 4X Deluge Protection to DTS01 -60°C to +80°C c CSA us Type of Protection c CSA us Classification Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21 Certificate No's: CSA1015065 UL 60079-0, UL 60079-1, UL 60079-7, ISA 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, UL 2225

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)
501/453/UNIV	С	M32	Brass	AR
501/453/UNIV	С	11/4" NPT	NP Brass	AR

Example Code: 501/453/UNIV C M32 Stainless





HKE-DS-501/453Universal-V1 June 2019

T: +44 (0) 161 830 6698 E: sales@ehawke.com

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

Alternative Reversible Armour Clamping Ring Size Selection					
Size Ref	Steel Wire Armour / Braid / Tape				
Size Rei	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			

Barrier Gland Upgrade Kit

The Barrier gland upgrade kit comes with everything needed to turn the 501/453/UNIVERSAL into the ICG/653/UNIVERSAL barrier gland. The kit, available in ExPress injectable self-mixing barrier resin and QSP 2-part hand mix putty both offer a barrier cure time from 30 minutes, are both fully inspectable and offer full visibility of the flameproof seal during installation and inspection.

Ordering Information							
Format for ordering is as follows:							
Product type	Resin type	Size*	Material				
Conversion pack	Putty	A	Brass				
Conversion pack	Liquid	A	Brass				

^{*} To match the size of the 501/453/UNIV you want to convert to a ICG653/UNIV

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





^{**} To match the material of the 501/453/UNIV you want to convert to a ICG653/UNIV