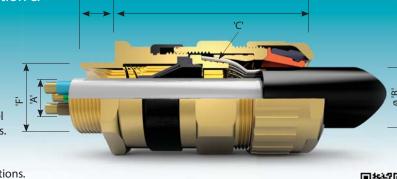
501/453/UNIV

Group II Cable Glands

Flameproof, Increased Safety, Dust Protection & Restricted Breathing Class - Zones - Divisions Certified ATEX / IECEx / c CSA us

Application

- Outdoor or indoor use.
- 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.
- See technical section for installation rules and regulations.



				CABL	E GLAND	SELECTI	ON TABLE				
	Entry Th	read Size 'F'			Cable Ac			Hexagon [Dimensions		
Size Ref.	Metric	NPT * Standard or	Inner Sheath 'A'		Outer Sheath 'B'		Armour	/ Braid 'C'	'G'	Across	Across
		Option	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	61.6	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	61.6	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	63.0	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	69.9	36.0	39.5
С	M32	1¼" or 1"	17.6	26.5	22.0	33.0	1.6 / 2.0	0.0 / 0.7	73.2	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	77.9	55.0	60.6
D	M50	2" or 1½"	28.9	44.4 / 42.3 ¹	36.0	52.6	1.8 / 2.5	0.0 / 1.0	93.5	65.0	70.8
E	M63	21/2" or 2"	39.9	56.3 / 54.3 ¹	46.0	65.3	1.8 / 2.5	0.0 / 1.0	94.0	80.0	88.0
F	M75	3" or 2½"	50.5	68.2 / 65.3 ¹	57.0	78.0	1.8 / 2.5	0.0 / 1.0	103.0	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

'T' — 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 501/453/RAC design style.

All dimensions in millimetres (except * where dimensions are in inches).

¹Smaller 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

Technical Data

ATEX/IECEx

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb, Dust Extb IIIC Db and ExnR IIC Gc II 2 / 3GD.
- Certificate No's: For sizes Os to F: Baseefa06ATEX0057X and IECEx BAS 06.0014X. For sizes G to J: Baseefa06ATEX0056X and IECEx BAS 06.0013X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7, IEC/EN 60079-15 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 300 (Sizes Os to F) and AI 303 (Sizes G to J).

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- Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21.
- Explosion-proof Class 1 Division 2 Groups ABCD, Class II Division 2 Groups EFG, Class III.
- Certificate No's: CSA1015065 for Marine Shipboard Cable.
- Construction and Test Standards: 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

Features

- Provides armour clamping using one clamping arrangement for all armour / braid types.
- Provides a diaphragm seal on inner sheath of cable which will not damage cables that exhibit 'Cold Flow' characteristics.
- Provides an outer deluge seal to prevent moisture ingress to the cable armour / braid.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard. Alternative Reversible Armour Clamping Rings (RAC)

SELECTION TABLE Size Ref. Steel Wire Armour / Braid / Tape 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			
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		SELECTION T/	ABLE
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		Steel Wire Armo	ur / Braid / Tape
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	Size Ref.	Orientation 1	Orientation 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	В	0.9 - 1.25	0.5 - 0.9
D 1.45 - 1.8 1.0 - 1.45 E 1.45 - 1.8 1.0 - 1.45	С	1.2 - 1.6	0.6 - 1.2
E 1.45 - 1.8 1.0 - 1.45	C2	1.2 - 1.6	0.6 - 1.2
	D	1.45 - 1.8	1.0 - 1.45
F 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)
501/453/UNIV	С	M32	Brass	AR
501/453/UNIV	С	1 ¼" NPT	Brass	AR

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Group II Cable Glands

Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions Certified ATEX / IECEx / c CSA us

Application

- The 501/421 cable gland provides a seal on the outer cable sheath
- For use on non-armoured elastomer and plastic insulated cables
- Suitable for installation in Zone 1 (21), Zone 2 (22) and Division 2 hazardous areas.

			CABL	E GLAND SEL	ECTION TABL	.E			
	Entry Thre	ead Size 'F'		Cable Accepta	ance Details		Fully	Hexagon Di	mensions
Size		NPT *		Outer Sh	eath 'B'		Compressed	Across	Across
Ref.	Metric	Standard or	Standa	ird Seal	Alternative Seal (S)		Length 'G'	Flats	Corners
		Option	Min.	Max.	Min.	Max.	9	11005	
2K	M16	-	3.2	8.0	-	-	23.5	19.0	21.2
Os	M20 ²	1⁄2"	3.2	8.0	-	-	23.8	24.0	26.5
0	M20 ²	1⁄2"	6.5	11.9	-	-	23.8	24.0	26.5
А	M20	3⁄4" or 1⁄2"	10.0	14.3	8.5	13.5	24.8	30.0	32.5
В	M25	1" or ¾"	13.0	20.2	9.5	15.4	25.8	36.0	39.5
С	M32	1¼" or 1"	19.5	26.5	15.5	21.2	28.2	46.0	50.5
C2	M40	1½" or 1¼"	25.0	32.5	22.0	28.0	29.5	55.0	60.6
D	M50	2" or 1½"	31.5	44.4 / 42.3 ¹	27.5	34.8	40.4	65.0	70.8
Е	M63	21/2" or 2"	42.5	56.3 / 54.3 ¹	39.0	46.5	38.2	80.0	88.0
F	M75	3" or 2½"	54.5	68.2 / 65.3 ¹	48.5	58.3	40.5	95.0	104.0
G	M80	31⁄2"	67.0	73.0	-	-	41.0	106.4	115.0
Н	M90	3½"	67.0	77.6	-	-	41.0	115.0	130.0
J	M100	4"	75.0	91.6	-	-	41.0	127.0	142.0

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T' — 2K to 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. All dimensions in millimetres (except * where dimensions are in inches).

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

'G'

² 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

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options available:

- Certificate No's: Baseefa06ATEX0056X and IECEx BAS 06.0013X.
 Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22.
- Suitable for use in 20ne 1, 20ne 2, 20ne 21, 20ne 22.
 Construction and Test Standards: IEC/EN 60079-0, IEC/EN
- 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31. Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days)
- to IEC/EN 60529 and NEMA 4X. Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +100°C.
- Assembly Instruction Sheet: AI 307.
 - Assembly instruction sheet. Al 50

c CSA us

- Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21.
- Explosion-proof Class 1 Division 2 Groups ABCD, Class II Division 2 Groups EFG, Class III.
- Certificate No's: CSA1015065 for Marine Shipboard Cable.
- Construction and Test Standards: 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: 60079-1, CSA 22.2 No: 60079-31, UL 2225

Features

- When used in Increased Safety applications, this cable gland may be used with braided cable where the braid and the outer sheath pass into the enclosure. The braid must then be suitably terminated inside the enclosure.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.
- Cable glands are marked with ATEX/IECEx and c CSA us certification information as standard.

Ordering Information

Format for ordering is as follows: Alternative Seal (S), add suffix S to ordering information.

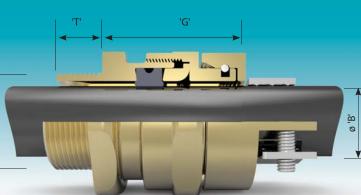
Cable Gland Type	Size	Thread	Material	(Optional)
501/421	С	M32	Brass	S
501/421	С	1 ¼" NPT	Brass	S





ternative certification

Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions Certified ATEX / IECEx / c CSA us



- The 501/421/R cable gland provides a seal and cable clamp on the outer cable sheath and is intended for use on non-armoured elastomer and plastic insulated cables.
- Certified Exd, Exe and Extb.
- Suitable for installation in Zone 1 (21) and Zone 2 (22) hazardous areas.



01/421/R

			CABI	E GLAND SEI	ECTION TABL	.E			
	Entry Thread Size 'F'			•	tance Details			Hexagon Dimensions	
Size				Outer S	heath 'B'		'G'	5	
Ref.	Metric	NPT * Standard or	Standa	ird Seal	Alternativ	Alternative Seal (S)		Across	Across
		Option	Min.	Max.	Min.	Max.		Flats	Corners
Os	M20 ²	1⁄2"	3.2	8.0	-	-	52.0	24.0	27.7
0	M20 ²	1⁄2"	6.5	11.9	-	-	52.0	24.0	27.7
А	M20	34" or ½"	10.0	14.3	9.0	13.4	52.0	30.0	34.6
В	M25	1" or ¾"	13.0	20.2	9.5	15.4	61.0	36.0	41.6
С	M32	1¼" or 1"	19.5	26.5	15.5	21.2	67.0	46.0	53.1
C2	M40	1½" or 1¼"	25.0	32.5	22.0	28.0	67.0	55.0	63.5

'T' — Os - F size metric entry threads are 1.5mm pitch as standard, 15mm length of thread. All dimensions in millimetres (except * where dimensions are in inches).

² 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

- Flameproof Exd and Increased Safety Exd IIC Gb, Exe IIGb, Ext
b IIIC Db, $\textcircled{\mbox{$\otimes$}}$ II 2 GD
- Certificate No's: Baseefa 06ATEX0056X and IECEx BAS06.0013X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +100°C.
- Assembly Instruction Sheet: AI 427.

c CSA us

- Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21.
- Explosion-proof Class 1 Division 2 Groups ABCD, Class II Division 2 Groups EFG, Class III.
- Certificate No's: CSA1015065 for Marine Shipboard Cable.
- Construction and Test Standards: 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: 60079-1, CSA 22.2 No: 60079-31, UL 2225

Features

- When used in Increased Safety applications, this cable gland may be used with braided cable where the braid and the outer sheath pass into the enclosure. The braid must then be suitably terminated inside the enclosure.
- Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.
- Brass NPT entries are nickel plated as standard.
- Cable clamp provides required clamp and cleat function.

Ordering Information

Format for ordering is as follows: Certification required i.e. ATEX / IECEx Material & Finish i.e. Brass Nickel Plated

Alternative Seal (S), add suffix S to ordering information.

Cable Gland Type	Size	Thread	Material	(Optional)
501/421/R	С	M32	Brass	S
501/421/R	С	1 ¼" NPT	Brass	S





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Group II Cable Glands

Flameproof, Increased Safety, Dust Protection **Class - Zones - Divisions** Certified ATEX / IECEx / c CSA us

Application

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The 501/423 cable gland provides two independent seals on non-armoured elastomer and plastic insulated cables. The first is a flameproof seal on the inner or outer cable sheath, with an additional IP seal on the outer sheath. Certified Exd, Exe and Extb

- Suitable for installation in Zone 1 (21) and Zone 2 (22) hazardous areas.

CABLE GLAND SELECTION TABLE											
	Entry Thread Size 'F'			Cable Accep	tance Details			Llavanan Di			
Size				Outer S	heath 'B'		101	Hexagon Dii	nensions		
Ref.		NPT *	Standa	ird Seal	Alternativ	/e Seal (S)	'G'	Across	Across		
	Metric	Standard or Option	Min.	Max.	Min.	Max.		Flats	Corners		
Os	M20 ²	1⁄2"	3.2	8.0	-	-	40.0	24.0	26.5		
0	M20 ²	1⁄2"	6.5	11.9	-	-	40.0	24.0	26.5		
А	M20	3⁄4" or 1⁄2"	10.0	14.3	9.0	13.4	40.4	30.0	32.5		
В	M25	1" or ¾"	13.0	20.2	9.5	15.4	44.3	36.0	39.5		
С	M32	1¼" or 1"	19.5	26.5	15.5	21.2	47.2	46.0	50.5		
C2	M40	1½" or 1¼"	25.0	32.5	22.0	28.0	49.5	55.0	60.6		
D	M50	2" or 1½"	31.5	44.4 / 42.3 ¹	27.5	34.8	72.5	65.0	70.8		
E	M63	21/2" or 2"	42.5	56.3 / 54.3 ¹	39.0	46.5	64.8	80.0	88.0		
F	M75	3" or 2½"	54.5	68.2 / 65.3 ¹	49.5	58.3	68.0	95.0	104.0		
G	M80	31⁄2"	67.0	73.0	-	-	68.0	106.4	115.0		
Н	M90	31⁄2"	67.0	77.6	-	-	68.0	115.0	130.0		
J	M100	4"	75.0	91.6	-	-	68.0	127.0	142.0		

'T' — 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. All dimensions in millimetres (except * where dimensions are in inches).

¹Smaller 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 outer sheath diameter is 10.9mm

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- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🔄 II 2 GD.
- Certificate No's: Baseefa06ATEX0056X and IECEx BAS 06.0013X. Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +100°C.
- Assembly Instruction Sheet: AI 306.

c CSA us

- Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21.
- Explosion-proof Class 1 Division 2 Groups ABCD, Class II Division 2 Groups EFG, Class III.
- Certificate No's: CSA1015065 for Marine Shipboard Cable. Construction and Test Standards: 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

Features

- Provides superior cable retention to standard unarmoured cable glands, with a seal at two independent points.
- When used in Increased Safety applications, this cable gland may be used with braided cable where the braid and the outer sheath pass into the enclosure. The braid must then be suitably terminated inside the enclosure.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

Ordering Information

Format for ordering is as follows:

Alternative Seal (S), add suffix S to ordering information.

Cable Gland Type	Size	Thread	Material	(Optional)	
501/423	С	M32	Brass	S	
501/423	С	1 ¼" NPT	Brass	S	





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Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions Certified ATEX / IECEx / c CSA us

Application

- Outdoor or indoor use.
- For use with non-armoured elastomer and plastic insulated cables installed in conduit.
- See technical section for installation rules and regulations.

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				CABLE	ILAND SE	LECTION T/	ABLE				
		Entry Thre	ad Size 'F'			Cable Accept	tance Detail	s			
	Male		Fem	ale						Hexagon Dimensior	
Size Ref.		NPT *		NPT #		Outer Sł	neath 'B'		'G'		
Rei.	Metric	Standard or	Metric	Standard or	Stand	ard Seal	Alternativ	/e Seal (S)		Across	Across
		Option		Option	Min.	Max.	Min.	Max.		Flats	Corners
Os	M20 ²	1⁄2"	M20	-	3.2	8.0	-	-	54.5	24.0	26.5
0	M20 ²	1⁄2"	M20	-	6.5	11.9	-	-	54.5	24.0	26.5
А	M20	3⁄4" or 1⁄2"	M20	-	10.0	14.3	9.0	13.4	56.4	30.0	32.5
В	M25	1" or ¾"	M25	-	13.0	20.2	9.5	15.4	48.2	36.0	39.5
С	M32	1¼" or 1"	M32	-	19.0	26.5	15.5	21.2	61.6	46.0	50.5
C2	M40	1 ½" or 1¼"	M40	-	25.0	32.5	22.0	28.0	64.6	55.0	60.6
D	M50	2" or 1 ½ "	M50	-	31.5	44.4/42.3 ¹	27.5	34.8	83.2	65.0	70.8
E	M63	2 ½" or 2"	M63	-	42.5	56.3/54.3 ¹	39.0	46.5	83.2	80.0	88.0
F	M75	3" or 2 ½"	M75	-	54.5	68.2/65.3 ¹	49.5	58.3	86.4	95.0	104.0
	'T' — All	dimensions in	millimetres (exc	cept * where di	mensions a	re in inches).	Metric entry	/ threads are	1.5mm pitch	n as standard.	

¹ Smaller value is applicable when selecting reduced NPT male 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

NPT female thread sizes equivalent to those shown in the table for the male thread size are available. Hexagon dimensions as shown may alter.

Technical Data

ATEX/IECEx

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🐵 II 2 GD.
- Certificate No's: Baseefa06ATEX0056X and IECEx BAS 06.0013X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +100°C.
- Assembly Instruction Sheet: AI 310.

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- Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21.
- Explosion-proof Class 1 Division 2 Groups ABCD, Class II Division 2 Groups EFG, Class III.
- Certificate No's: CSA1015065 for Marine Shipboard Cable.
- Construction and Test Standards: 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: 60079-1, CSA 22.2 No: 60079-31, UL 2225

Features

- Provides a cable retention seal onto the cables outer sheath.
- When used in Increased Safety applications, this cable gland may be used with braided cable where the braid and the cables outer sheath pass into the enclosure. The braid must be suitably terminated into the enclosure.
- Provides female running coupler for cable gland or conduit entry.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

Ordering Information

Format for ordering is as follows:

1	Alternative Seal (S), add suffix S to ordering information.										
	Cable Gland Type	Size	Thread	Material	(Optional)						
1	501/414	С	M32	Brass	S						
	501/414	С	1 ¼" NPT	Brass	S						



Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions Certified ATEX / IECEx / c CSA us

Application

ø 'B'

- Outdoor or indoor use.
- For use with single wire armour 'W', wire braid 'X', steel tape armour 'Z', elastomer and plastic insulated cables.
- See technical section for installation rules and regulations.

					CABLE	GLAND S	ELECTIO	N TABL	E				
	Entry T	hread Size 'F'				Cable Acce	ptance De	etails					agon ensions
Size		"NPT *		Inner Sh	neath 'A'		Outer Sheath 'B'		Armour /	' Braid 'C'	'G'		
Ref.	Metric		Star	ndard Seal	Alternativ	ve Seal (S)	Outer Si	heath 'B'	Orientation	Orientation		Across Flats	Across Corners
		Option"	Min.	Max.	Min.	Max.	Min.	Max.	1	2		Thats	comers
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	¾" or ½"	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	1½" or 1¼"	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 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	39.0	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"	75.0	91.6	-	-	88.0	104.5	2.5 / 4.0	0.0 / 1.0	95.6	127.0	142.0
ידי		izo motric ontri	(throad	aro 1 5mm nit	ch ac stand	lard 15mm	longth of	throad B	or C cizo aland	c and above a	2mm ni	ch is sup	aliad ac

T' — 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. All dimensions in millimetres (except * where dimensions are in inches).

¹Smaller 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.

Technical Data

ATEX/IECEx

ABS

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options available:

ternative certification

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🖾 II 2 GD.
- Certificate No's: Baseefa06ATEX0056X and IECEx BAS 06.0013X.Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.

'C

- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01. (Deluge Seal Optional)
- Operating Temperature Range: -60°C to +100°C.
- Assembly Instruction Sheet: AI 302.

c CSA us

- Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21.
- Explosion-proof Class 1 Division 2 Groups ABCD, Class II Division 2 Groups EFG, Class III.
 Certificate No's: CSA1015065 for Marine Shipboard Cable.
- Construction and Test Standards: 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

Features

- Provides armour clamping using one clamping arrangement for all armour / braid types.
- Provides a seal on the cables inner sheath.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.
- **Connection Solutions**

Ordering Information

Size

Ref.

В

С

C2

D

Е

F

Format for ordering is as follows: Alternative Clamping Ring (AR), add suffix AR to ordering information. Alternative Seal (S), add suffix S to ordering information.

Alternative Reversible Armour

Clamping Rings (RAC)

SELECTION TABLE

Orientation 1

0.9 - 1.25

1.2 - 1.6

1.2 - 1.6

1.45 - 1.8

1.45 - 1.8

1.45 - 1.8

Steel Wire Armour / Braid / Tape

Orientation 2

0.5 - 0.9

0.6 - 1.2

0.6 - 1.2

1.0 - 1.45

1.0 - 1.45

1.0 - 1.45

Cable Gland Type	Size	Thread	Material	(Optional)
501/453/RAC	С	M32	Brass	AR
501/453/RAC	С	1 ¼" NPT	Brass	AR
501/453/RAC	С	M32	Brass	S
501/453/RAC	С	1 ¼" NPT	Brass	S



501/453/RAC/

Group II Cable Glands

Flameproof, Increased Safety, Dust Protection **Class - Zones - Divisions** Certified ATEX / IECEx / c CSA us

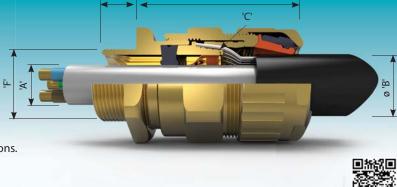
(for Lead Sheath Cables)

Application

Outdoor or indoor use.

Entry Thread Size 'F'

- For use with single wire armour 'W', wire braid 'X', steel tape armour 'Z', elastomer and plastic insulated cables with a lead inner sheath.
- See technical section for installation rules and regulations.



'G'

LECTI	ON TABL	.E				
ance De	etails				agon	
		Armour /	' Braid 'C'	'G'	Dime	nsions
Outer S	heath 'B'	Orientation	Orientation	G	Across	Across
Min.	Max.	1	2		Flats	Corners
9.5	16.0	0.8 / 1.25	0.0 / 0.8	52.0	24.0	26.5
12.5	20.5	0.8 / 1.25	0.0 / 0.8	53.0	30.0	32.5

Size				Inner Sł	neath 'A'				Armour /	' Braid 'C'	101	Dime	nsions
Ref.	Metric	NPT * Standard or Option		lard Seal (L) al + Bond	Alternativ Seal +	. ,	Outer S	heath 'B'	Orientation	Orientation	'G'	Across	Across
		Option	Min.	Max.	Min.	Max.	Min.	Max.	1	2		Flats	Corners
0	M20 ²	1⁄2"	6.5	10.5	-	-	9.5	16.0	0.8 / 1.25	0.0 / 0.8	52.0	24.0	26.5
А	M20	34" or 1⁄2"	-	-	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	19.0	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	25.0	15.5	21.2	22.0	33.0	1.6 / 2.0	0.0 / 0.7	64.0	46.0	50.5
C2	M40	1½" or 1¼"	25.0	31.2	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 1½"	31.5	42.3 / 42.8 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	53.3 / 54.5 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	66.0 / 64.3 ¹	48.5	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	70.0	-	-	75.0	89.5	2.0 / 3.15	0.0 / 1.0	95.6	106.4	115.0
Н	M90	31⁄2"	67.0	75.0	-	-	75.0	89.5	2.0 / 3.15	0.0 / 1.0	95.6	115.0	130.0
J	M100	4"	75.0	89.5	-	-	88.0	104.5	2.5 / 4.0	0.0 / 1.0	95.6	127.0	142.0

CABLE GLAND SEI

Cable Accepta

'T' — O - 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. All dimensions in millimetres (except * where dimensions are in inches).

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

² Size O is available with an M16 thread size. For O size with M16 thread, the maximum cable inner sheath diameter

Technical Data

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🖾 II 2 GD.
- Certificate No's: Baseefa06ATEX0056X and IECEx BAS 06.0013X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/ EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01 (Deluge Seal Optional).
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 302 and AI 336.

Features

UPD 141114

- Provides armour clamping using one clamping arrangement for all armour / braid types.
- Provides a seal and an electrical bond to the cables lead inner sheath.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Deluge protection option available, contact Hawke Technical Sales for details.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

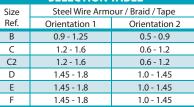
Ordering Information

Format for ordering is as follows:

Standard Inner Seal + Bond, add suffix L to ordering information. Alternative Inner Seal + Bond, add suffix K to ordering information. Alternative Clamping Ring (AR), add suffix AR to ordering information.

Cable Gland Type	Size	Thread	Lead	Material	(Optional)
501/453/RAC	С	M32	L	Brass	AR
501/453/RAC	С	1 ¼" NPT	L	Brass	AR
501/453/RAC	С	1 ¼" NPT	К	Brass	AR

is 10.9mm
Alternative Reversible Armour
Clamping Rings (RAC)
SELECTION TABLE



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Connection Solutions

Flameproof, Increased Safety, Dust Protection

Class - Zones - Divisions Certified ATEX / IECEx



Application

- Outdoor or indoor use. For use with non-armoured elastomer and plastic
- insulated cables. For particular use with:-
 - Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers. Cables that exhibit 'Cold Flow' characteristics.
 - Enclosures containing an ignition source in gas group IIC areas or containing an ignition source in a Zone 1 area and exceeding 2 litres in volume.
- See technical section for installation rules and regulations.

				CABLE	GLAND SELE	CTION T	ABLE					
	Entry Th	wood Cito 'E'			Cable Accepta	nce Details	5				Hexa	agon
Size	Entry In	read Size 'F'	Inr	ner Sheath / Cor	res	Outer Sheath 'B'					Dime	nsions
Ref.		NPT * Standard or Option	' D ' Max. Over	'E' Max.	Max. No. of	Standa	rd Seal	Alternativ	/e Seal (S)	'G'	Across	Across
			Cores		Cores	Min.	Max.	Min.	Max.		Flats	Corners
Os	M20	1⁄2"	8.0	8.0	16	3.0	8.0	-	-	56.4	24.0	26.5
0	M20	1⁄2"	8.9	10.0	16	6.5	11.9	-	-	56.4	24.0	26.5
А	M20	34" or 1⁄2"	11.0	12.5	30	10.0	14.3	8.5	13.4	55.8	30.0	32.5
В	M25	1" or ¾"	16.2	18.4	32	13.0	20.2	9.5	15.4	58.8	36.0	39.5
С	M32	1¼" or 1"	21.9	24.7	60	19.0	26.5	15.5	21.2	62.0	46.0	50.5
C2	M40	1½" or 1¼"	26.3	29.7	80	25.0	32.5	22.0	28.0	64.5	55.0	60.6
D	M50	2" or 1½"	37.1	41.7	100	31.5	44.4	27.5	34.8	72.8	65.0	70.8
	'T' — Metric entry threads are 1.5mm pitch as standard, 15mm length of thread. All dimensions in millimetres (except * where dimensions are in inches)											

All dimensions in millimetres (except ^e where dimensions are in inches)

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

Technical Data

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🐼 II 2 GD.
- Certificate No's: Baseefa06ATEX0058X and IECEx BAS 06.0015X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 6079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 456.

Features

- Provides an inspectable, repairable barrier seal to the individual insulated cores within the cable, and prevents entry of the products of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- QSP putty offers fast curing time and sets in half the time of the standard putty.
- Provides a cable retention seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

Ordering Information

Format for ordering is as follows:

Alternative Seal (S), add suffix S to ordering information.

Cable Gland Type	Size	Thread	Material	(Optional)
ICG 623/QSP	С	M32	Brass	S
ICG 623/QSP	С	1 ¼" NPT	Brass	S

Two part sealing compound and assembly instructions are supplied with the cable gland.

ABS





Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions Certified ATEX / IECEx / c CSA us

Application

- Outdoor or indoor use.
- For use with non-armoured elastomer and plastic insulated cables.
- For particular use with:-
- Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.

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- Cables that exhibit 'Cold Flow' characteristics.
- Enclosures containing an ignition source in gas group IIC areas or containing an ignition source in a Zone 1 area and exceeding 2 litres in volume.
- See technical section for installation rules and regulations.

CABLE GLAND SELECTION TABLE												
Entry	road Size 'E'			Cable	Acceptance	Details					Hexa	agon
Entry In	read Size F	Inner Sheath / Cores				Outer Sheath 'B'					Dime	nsions
	NPT *	' D ' Max.	'E' Max.	NOTE 1	-	Standa	rd Seal	Alternativ	ve Seal (S)	'G'	Across	Across
Option	Over Cores	Inner Sheath	Max. No. Max. No. of Cores of Cores		Min.	Max.	Min.	Max.		Flats	Corners	
M20	1⁄2"	8.0	8.0	12	6	3.0	8.0	-	-	56.4	24.0	26.5
M20	1⁄2"	8.9	10.0	12	6	6.5	11.9	-	-	56.4	24.0	26.5
M20	3⁄4" or 1⁄2"	11.0	12.5	15	10	10.0	14.3	8.5	13.4	55.8	30.0	32.5
M25	1" or ¾"	16.2	18.4	30	21	13.0	20.2	9.5	15.4	58.8	36.0	39.5
M32	1¼" or 1"	21.9	24.7	42	42	19.0	26.5	15.5	21.2	62.0	46.0	50.5
M40	1½" or 1¼"	26.3	29.7	60	60	25.0	32.5	22.0	28.0	64.5	55.0	60.6
M50	2" or 1½"	37.1	41.7	80	80	31.5	44.4	27.5	34.8	72.8	65.0	70.8
M63	21⁄2" or 2"	47.8	53.5	100	100	42.5	56.3	39.0	46.5	77.0	80.0	88.0
M75	3" or 2½"	59.0	66.2 / 65.3 ¹	120	120	54.5	68.2	48.5	58.3	80.7	95.0	104.0
	Metric M20 M20 M20 M25 M32 M40 M50 M63 M75	Metric Standard or Option M20 ½" M20 ½" M20 ¾" or ½" M32 1¼" or 11" M40 1½" or 1½" M50 2" or 1½" M63 2½" or 2" M75 3" or 2½"	NPT* Standard or Option ' D ' Max. Over Cores M20 ½" 8.0 M20 ½" 9.0 M20 ½" 9.0 M32 1"or¾" 9.0 M40 1½"or 1¼" 26.3 M50 2"or 1½" 37.1 M63 2½" or 2" 47.8 M75 3"or 2½" 59.0	Entry The ad Size 'F' Inner Sheath Metric NPT* Standard or Option 'D'Max. O'Ver Cores 'E'Max. Inner Sheath M20 ½" 8.0 8.0 M20 ½" 8.0 8.0 M20 ½" 11.0 12.5 M20 ¾" or ½" 11.0 12.5 M20 ¾" or ½" 11.0 12.5 M25 1" or ¾" 21.9 24.7 M32 1¼" or 1" 21.9 24.7 M40 1½" or 1¼" 26.3 29.7 M50 2" or 1½" 37.1 41.7 M63 2½" or 2" 47.8 53.5 M75 3" or 2½" 59.0 66.2 / 65.3 ¹	Cable Entry Thread Size 'F' Inner Sheath Cores Metric NPT* Standard or Option 'D' Max. Over Cores 'E' Max. Iner Sheath NOTE I Max. No. of Cores M20 $12^{"}$ 8.0 8.0 12 M20 $12^{"}$ 8.9 10.0 12 M20 $34^{"}$ or $12^{"}$ 11.0 12.5 15 M20 $34^{"}$ or $12^{"}$ 11.0 12.5 15 M20 $11^{"}$ or $11^{"}$ 21.9 24.7 42 M32 $114^{"}$ or $11^{"}$ 21.9 24.7 42 M40 $112^{"}$ or $114^{"}$ 26.3 29.7 60 M50 $212^{"}$ or $21^{"}$ 37.1 41.7 80 M63 $212^{"}$ or $21^{"}$ 47.8 53.5 100 M75 $3"$ or $22^{"}$ 59.0 66.2 / 65.3" 120	Cable Acceptance Cable Acceptance Entry Thread Size 'F' Cable Acceptance Metric NPT* Standard or Option 'D' Max. Over Cores NOTE 1 Max. No. of Cores NOTE 2 Max. No. of Cores M20 $^{1}2^{"}$ 8.0 8.0 12 Mote 2 Max. No. of Cores M20 $^{1}2^{"}$ 8.0 8.0 10.0 12 6 M20 $^{1}2^{"}$ 8.0 8.0 10.0 12 6 M20 $^{1}2^{"}$ 11.0 12.5 15 10 M32 1^{1} 21.9 24.7 42 42 M40 1^{1}_{2} 37.1 41.7 80 80 M63 2^{1}_{2} 37.0 53.5 100 100 <td>Cable Acceptance Using a strain of the strain of t</td> <td>Entry The Size P Cable Determined Size P Bandar of Option P Max, Over Cores NOTE 1 Max, No. Siceres NOTE 2 Max, No. Siceres Standardo Option P Max, Over Cores NOTE 1 Max, No. Siceres MOTE 2 Max, No. Siceres MAR 20 Standardo Option P Max, Over Cores MOTE 1 Max, No. Siceres MAR 20 Max Max No. Siceres Max Max Max Max Max Max Max MoTE 2 Max Max</td> <td>Cable Corporation Corporation Cable Corporation Corporation NPT* Outer Sheat/ Cores Standard of Option NOTE 1 NOTE 2 Metric NPT* 1 D Max, 1 Or Max, 1 Or Max, 1 Or Option 1 D' Max, 1 Or Max, 1 Or Option MOTE 1 MOTE 2 Standard Or Option Max. No. Moter 2 Max. No. of Cores Moter 2 Max. No. of Cores Ma</td> <td>Here: Figure 1: Cable 2: Cable</td> <td>Here: The second secon</td> <td>Here: The state of th</td>	Cable Acceptance Using a strain of the strain of t	Entry The Size P Cable Determined Size P Bandar of Option P Max, Over Cores NOTE 1 Max, No. Siceres NOTE 2 Max, No. Siceres Standardo Option P Max, Over Cores NOTE 1 Max, No. Siceres MOTE 2 Max, No. Siceres MAR 20 Standardo Option P Max, Over Cores MOTE 1 Max, No. Siceres MAR 20 Max Max No. Siceres Max Max Max Max Max Max Max MoTE 2 Max Max	Cable Corporation Corporation Cable Corporation Corporation NPT* Outer Sheat/ Cores Standard of Option NOTE 1 NOTE 2 Metric NPT* 1 D Max, 1 Or Max, 1 Or Max, 1 Or Option 1 D' Max, 1 Or Max, 1 Or Option MOTE 1 MOTE 2 Standard Or Option Max. No. Moter 2 Max. No. of Cores Moter 2 Max. No. of Cores Ma	Here: Figure 1: Cable 2: Cable	Here: The second secon	Here: The state of th

'T' — Metric entry threads are 1.5mm pitch as standard, 15mm length of thread. All dimensions in millimetres (except * where dimensions are in inches). Note 1: ATEX / IECEx certification only - Note 2: All other certification.

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

Technical Data

ATEX/IECEx

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db II 2 GD.
- Certificate No's: Baseefa06ATEX0058X and IECEx BAS 06.0015X.
 Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas
- Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 6079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 305.

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UPD 141114

- Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21.
- Explosion-proof Class 1 Division 2 Groups ABCD, Class II Division 2 Groups EFG, Class III.
- Certificate No's: CSA1015065 for Marine Shipboard Cable.
- Construction and Test Standards: 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: 60079-1, CSA 22.2 No: 60079-31, UL 2225

Features

- Provides an inspectable, repairable barrier seal to the individual insulated cores within the cable, and prevents entry of the products of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- Provides a cable retention seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

Ordering Information

Format for ordering is as follows:

1	Alternative Seal (S),	add suffi	x S to order	ing informa	tion.
	Cable Gland Type	Size	Thread	Material	(Optional)
Ì	ICG 623	С	M32	Brass	S
	ICG 623	С	1 ¼" NPT	Brass	S

Two part sealing compound and assembly instructions are supplied with the cable gland.

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rnative certification

Flameproof, Increased Safety, Dust Protection

Class - Zones - Divisions Certified ATEX / IECEx

Application

B

- Outdoor or indoor use.
- 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 are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
 - Cables that exhibit 'Cold Flow' characteristics.
 - Enclosures containing an ignition source in gas group IIC areas or containing an ignition source in a Zone 1 area.
- See technical section for installation rules and regulations.

	CABLE GLAND SELECTION TABLE												
	En tra a Ti				Cable	Acceptanc	e Details				Hex	agon	
Size	Entry II	hread Size 'F'	Inner Sheath / Cores			Outer Sheath 'B'		Armour / Braid 'C'			Dime	nsions	
Ref.	Metric	NPT * Standard or Option	Max. Over Cores 'D'	Max Inner Sheath 'E'	Max. No. of Cores	Min	Max	Orientation 1	Orientation 2	'G'	Across Flats	Across Corners	
Os	M20	1⁄2"	8.9	10.0	16	5.5	12.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5	
0	M20	1⁄2"	8.9	10.0	16	9.5	16.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5	
А	M20	¾" or ½"	11.0	12.5	30	12.5	20.5	0.8 / 1.25	0.0 / 0.8	67.0	30.0	32.5	
В	M25	1" or ¾"	16.2	18.4	32	16.9	26.0	1.25 / 1.6	0.0/0.7	73.6	36.0	39.5	
С	M32	1¼" or 1"	21.9	24.7	60	22.0	33.0	1.6 / 2.0	0.0 / 0.7	78.0	46.0	50.5	
C2	M40	1½" or 1¼"	26.3	29.7	80	28.0	41.0	1.6 / 2.0	0.0/0.7	82.4	55.0	60.6	
D	M50	2" or 1½"	37.1	41.7	100	36.0	52.6	1.8 / 2.5	0.0 / 1.0	88.7	65.0	70.8	

'T' — Metric entry threads are 1.5mm pitch as standard, 15mm length of thread. All dimensions in millimetres (except * where dimensions are in inches).

Technical Data

Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb, Dust Extb IIIC Db and ExnR IIC Gc 🐵 II 2 / 3GD.

'G'

- Certificate No's: Baseefa06ATEX0058X and IECEx BAS 06.0015X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.

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- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 454

Alternative Reversible Armour Clamping Rings (RAC) SELECTION TABLE Steel Wire Armour / Braid / Tape Size Ref Orientation 1 Orientation 2 0.9 - 1.25 0.5 - 0.9 1.2 - 1.6 0.6 - 1.2 C2 1.2 - 1.6 0.6 - 1.2 1.0 - 1.45 1.45 - 1.8 1.45 - 1.8 1.0 - 1.45

Features

- Provides an inspectable, repairable barrier seal to the individual insulated cores within the cable, and prevents entry of the products of an explosion into the cable.
- QSP putty offers fast curing time and sets in half the time of the standard putty.
- Provides armour clamping, using one clamping arrangement for all armour / braid types.
- Provides an outer deluge seal to prevent moisture ingress to the cable armour / braid.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

Ordering Information

Format for ordering is as follows: Alternative Seal (AR), add suffix AR to ordering information.

Cable Gland Type	Size	Thread	Material	(Optional)
ICG 653/UNIV/QSP	С	M32	Brass	AR
ICG 653/UNIV/QSP	С	1 ¼" NPT	Brass	AR

Two part sealing compound and assembly instructions are supplied with the cable gland.

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Connection Solutions www.ehawke.com

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CG 653/UNIV

Group II Cable Glands

Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions Certified ATEX / IECEx / c CSA us

Application

- Outdoor or indoor use.
- 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 are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
 - Cables that exhibit 'Cold Flow' characteristics.
 - Enclosures containing an ignition source in gas group IIC areas or containing an ignition source in a Zone 1 area.
- See technical section for installation rules and regulations.

	CABLE GLAND SELECTION TABLE												
	Entry Thread Size 'F'			Cable Acceptance Details									agon
Size					Outer Sl	neath 'B'	Armour	/ Braid 'C'		Dime	nsions		
Ref.	Metric	NPT * Standard or Option	Max. Over Cores 'D'	Max Inner Sheath 'E'	NOTE 1 Max. No. of Cores	NOTE 2 Max. No. of Cores	Min	Max	Orientation 1	Orientation 2	'G'	Across Flats	Across Corners
Os	M20	1⁄2"	8.9	10.0	12	6	5.5	12.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5
0	M20	1⁄2"	8.9	10.0	12	6	9.5	16.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5
А	M20	¾" or ½"	11.0	12.5	15	10	12.5	20.5	0.8 / 1.25	0.0 / 0.8	67.0	30.0	32.5
В	M25	1" or ¾"	16.2	18.4	30	21	16.9	26.0	1.25 / 1.6	0.0 / 0.7	73.6	36.0	39.5
С	M32	1¼" or 1"	21.9	24.7	42	42	22.0	33.0	1.6 / 2.0	0.0 / 0.7	78.0	46.0	50.5
C2	M40	1½" or 1¼"	26.3	29.7	60	60	28.0	41.0	1.6 / 2.0	0.0 / 0.7	82.4	55.0	60.6
D	M50	2" or 1½"	37.1	41.7	80	80	36.0	52.6	1.8 / 2.5	0.0 / 1.0	88.7	65.0	70.8
E	M63	21⁄2" or 2"	47.8	53.5	100	100	46.0	65.3	1.8 / 2.5	0.0 / 1.0	92.7	80.0	88.0
F	M75	3" or 2½"	59.0	66.2 / 65.3 ¹	120	120	57.0	78.0	1.8 / /2.5	0.0 / 1.0	99.4	95.0	104.0
'T' —	Metric er	ntry threads a	re 1.5mm pi	tch as standa	rd, 15mm l	ength of th	read. All o	dimensio	ns in millimetre	s (except * whe	re dimen	sions are i	n inches).

T' — Metric entry threads are 1.5mm pitch as standard, 15mm length of thread. All dimensions in millimetres (except * where dimensions are in inches). Note 1: ATEX / IECEx certification only - Note 2: All other certification.

¹ Smaller value is applicable when selecting reduced NPT entry option. Note: Larger sizes are available.

Technical Data

ATEX/IECEx

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb, Dust Extb IIIC Db and ExnR IIC Gc II 2 / 3GD.
- Certificate No's: Baseefa06ATEX0058X and IECEx BAS 06.0015X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 301

c CSA us

- Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21.
- Explosion-proof Class 1 Division 2 Groups ABCD, Class II Division 2 Groups EFG, Class III.
- Certificate No's: CSA1015065 for Marine Shipboard Cable.
- Construction and Test Standards: 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

Features

- Provides an inspectable, repairable barrier seal to the individual insulated cores within the cable, and
 prevents entry of the products of an explosion into the cable.
- Provides armour clamping, using one clamping arrangement for all armour / braid types.
- Provides an outer deluge seal to prevent moisture ingress to the cable armour / braid.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

HAWKE International UPD 141114

add suffix AR to ordering information.

Ordering Information

	Туре	Size	Thread	Material	(Optional)
1	ICG 653/UNIV	С	M32	Brass	AR
	ICG 653/UNIV	C	1 ¼" NPT	Brass	AR

Format for ordering is as follows: Alternative Seal (AR),

Two part sealing compound and assembly instructions are supplied with the cable gland.

A	Alternative Reversible Armour Clamping Rings (RAC)											
SELECTION TABLE												
Size	Steel Wire Armo	our / Braid / Tape										
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										

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Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions

Certified ATEX / IECEx

(for Lead Sheath Cables)

Application

ø 'B'

- Outdoor or indoor use.
- For use with single wire armour 'W', wire braid 'X', steel tape armour 'Z', elastomer and plastic insulated cables with a lead inner sheath.
- For particular use with:-
 - Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
 - Cables that exhibit 'Cold Flow' characteristics.
 - Enclosures containing an ignition source in gas group IIC areas or containing an ignition source in a Zone 1 area.
- See technical section for installation rules and regulations.

	CABLE GLAND SELECTION TABLE													
	Entry Tl	nread Size 'F'			Hexagon									
Size		NPT *	Inner Sheath / Cores			Outer Sł	neath 'B'	Armour	/ Braid 'C'	'G'	Dime	nsions		
Ref.	Metric	Standard or Option	' D ' Max. Over Cores	Max Inner Sheath 'E'	Max. No. of Cores	Min.	Max.	Orientation 1	Orientation 2	J	Across Flats	Across Corners		
Os	M20	1⁄2"	8.5	10.0	16	5.5	12.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5		
0	M20	1⁄2"	8.5	10.0	16	9.5	16.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5		
А	M20	3⁄4" or 1⁄2"	10.8	12.5	30	12.5	20.5	0.8 / 1.25	0.0 / 0.8	67.0	30.0	32.5		
В	M25	1" or ¾"	16.2	18.4	32	16.9	26.0	1.25 / 1.6	0.0 / 0.7	73.6	36.0	39.5		
С	M32	1¼" or 1"	21.9	24.7	60	22.0	33.0	1.6 / 2.0	0.0 / 0.7	78.0	46.0	50.5		
C2	M40	1½" or 1¼"	26.3	29.7	80	28.0	41.0	1.6 / 2.0	0.0 / 0.7	82.4	55.0	60.6		
D	M50	2" or 1½"	37.1	41.7	100	36.0	52.6	1.8 / 2.5	0.0 / 1.0	88.7	65.0	70.8		
י די ۵	II dimensio	ons in millimetre	es (excent * whe	e dimensions	are in inche	s) Motric	ontry thro	ads are 15mm	nitch as standar	d 15mn	h length c	oftbread		

r — All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard, 15mm length of thread.

Technical Data

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🐼 II 2 GD.
- Certificate No's: Baseefa06ATEX0058X and IECEx BAS 06.0015X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 454 and AI 336.

Features

- Provides an inspectable, repairable barrier seal to the individual insulated cores within the cable, and prevents entry of the products of an explosion into the cable.
- QSP putty offers fast curing time and sets in half the time of the standard putty.
 Assembly of the cable gland compresses and distributes the compound evenly to
- create a barrier seal at the point of entry into the enclosure.
 Provides armour clamping, using one clamping arrangement for all armour / braid types.
- Provides a seal and an electrical bond on the cables lead inner sheath.
- Provides an outer deluge seal to prevent moisture ingress to the cable armour / braid.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

Ordering Information

Format for ordering is as follows: Alternative Seal (AR), add suffix AR to ordering information.

Cable Gland Type	Size	Thread	Lead	Material	(Optional)
ICG 653/UNIV/QSP	С	M32	L	Brass	AR
ICG 653/UNIV/QSP	С	1 ¼" NPT	L	Brass	AR

Two part sealing compound and assembly instructions are supplied with the cable gland.

Alternative Reversible Armour Clamping Rings (RAC) SELECTION TABLE

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						

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Connection Solutions

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Group II Cable Glands

Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions Certified ATEX / IECEx / c CSA us

(for Lead Sheath Cables)

Application

- Outdoor or indoor use.
- For use with single wire armour 'W', wire braid 'X', steel tape armour 'Z', elastomer and plastic insulated cables with a lead inner sheath.
- For particular use with:-
 - Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
 - Cables that exhibit 'Cold Flow' characteristics.
 - Enclosures containing an ignition source in gas group IIC areas or containing an ignition source in a Zone 1 area.
- See technical section for installation rules and regulations.

	CABLE GLAND SELECTION TABLE												
	Entry Th	nread Size 'F'			C	able Accep	otance De	tails				Hex	agon
Size		NPT *		Inner Sheath	nner Sheath / Cores		Outer Sheath 'B'		Armour / Braid 'C'			Dime	nsions
Ref.	Metric	Standard or Option	' D ' Max. Over Cores	Max Inner Sheath 'E'	NOTE 1 Max. No. of Cores	NOTE 2 Max. No. of Cores	Min.	Max.	Orientation 1	Orientation 2	'G'	Across Flats	Across Corners
Os	M20	1⁄2"	8.5	10.0	12	6	5.5	12.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5
0	M20	1⁄2"	8.5	10.0	12	6	9.5	16.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5
А	M20	3⁄4" or 1⁄2"	10.8	12.5	15	10	12.5	20.5	0.8 / 1.25	0.0 / 0.8	67.0	30.0	32.5
В	M25	1" or ¾"	16.2	18.4	30	21	16.9	26.0	1.25 / 1.6	0.0 / 0.7	73.6	36.0	39.5
С	M32	1¼" or 1"	21.9	24.7	42	42	22.0	33.0	1.6 / 2.0	0.0 / 0.7	78.0	46.0	50.5
C2	M40	1½" or 1¼"	26.3	29.7	60	60	28.0	41.0	1.6 / 2.0	0.0 / 0.7	82.4	55.0	60.6
D	M50	2" or 1½"	37.1	41.7	80	80	36.0	52.6	1.8 / 2.5	0.0 / 1.0	88.7	65.0	70.8
E	M63	21⁄2" or 2"	47.8	53.3	100	100	46.0	65.3	1.8 / 2.5	0.0 / 1.0	92.7	80.0	88.0
F	M75	3" or 2½"	59.0	64.0	120	120	57.0	78.0	1.8 / 2.5	0.0 / 1.0	99.4	95.0	104.0
'T' —	All dimer	sions in millin	netres (except	* where dim	ensions ar	e in inches). Metric e	entry thre	ads are 1.5mm	pitch as standai	d, 15mn	n length d	of thread.

'T' — All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard, 15mm length of thread Note 1: ATEX / IECEx certification only - Note 2: All other certification.

Technical Data

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🐵 II 2 GD.
- Certificate No's: Baseefa06ATEX0058X and IECEx BAS 06.0015X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 301 and AI 336.

Features

- Provides an inspectable, repairable barrier seal to the individual insulated cores within the cable, and prevents entry of the products of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- Provides armour clamping, using one clamping arrangement for all armour / braid types.
- Provides a seal and an electrical bond on the cables lead inner sheath.
- Provides an outer deluge seal to prevent moisture ingress to the cable armour / braid.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

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Ordering Information

Format for ordering is as follows: Alternative Seal (AR), add suffix AR to ordering information.

Cable Gland Type	Size	Thread	Lead	Material	(Optional)
ICG 653/UNIV	С	M32	L	Brass	AR
ICG 653/UNIV	С	1 ¼" NPT	L	Brass	AR

Two part sealing compound and assembly instructions are supplied with the cable gland.

Alternative Reversible Armour Clamping Rings (RAC)
SELECTION TABLE
Size Ref. Steel Wire Armour / Braid / Tape
Orientation 1 Orientation 2

1	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

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Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions Certified ATEX / IECEx / c CSA us

Application

- Outdoor or indoor use.
- For use with conduit incorporating individual insulated conductors.
- For particular use with:-
 - Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers. Cables that exhibit 'Cold Flow' characteristics.
 - Enclosures containing an ignition source in gas group
 IIC areas or containing an ignition source in a Zone 1
 area and exceeding 2 litres in volume.
- See technical section for installation rules and regulations.

	CABLE GLAND SELECTION TABLE										
		Entry Thre	ad Size 'F'		lu u	er Sheath / Co			Hexagon Dimensions		
	Male		Female		Inn	er Sheath / Co	ores	'G'	Hexagon Dimensions		
Size Ref.	Metric	NPT * Standard or Option	Metric	NPT * Standard or Option	Max. Over Cores 'D'	Max Inner Sheath 'E'	Max. No. of Cores	Metric	Across Flats	Across Corners	
А	M20	3⁄4" or 1⁄2"	M20	3⁄4" or 1⁄2"	11.0	12.5	30	74	30.0	32.5	
В	M25	1" or ¾"	M25	1" or ¾"	16.2	18.4	32	65	36.0	39.5	
С	M32	1¼" or 1"	M32	1¼" or 1"	21.9	24.7	60	80	46.0	50.5	
C2	M40	1½" or 1¼"	M40	1½" or 1¼"	26.3	29.7	80	83	55.0	60.6	
D	M50	2" or 1½"	M50	2" or 1½"	37.1	41.7	100	94	65.0	70.8	
'T' — All dime	ensions in mill	limetres (excep	t * where dim	ensions are in	inches). Metri	c entry thread	s are 1.5mm p	itch as standa	rd, 15mm leng	th of thread.	

Technical Data

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🐼 II 2 GD.
- Certificate No's: Baseefa06ATEX0058X and IECEx BAS 06.0015X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days)to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 459.

Features

- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the products of an explosion into the cable or conduit.
- Seals conductors at entry to enclosure via conduit or enables an existing cable gland to be converted to a barrier type cable gland.
- The device is fitted with a simple compound filled chamber which permits packing around individual insulated conductors.
- QSP putty offers fast curing time and sets in half the time of the standard putty.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- If required, external voids can be repaired.
- Provides female running coupler for cable gland or conduit entry.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

Ordering Information

Format for ordering is as follows:

Cable Gland Type	Size	Male Thread	Female Thread	Material
CSB 656N/QSP	С	M32	M32	Brass
CSB 656N/QSP	С	1 ¼" NPT	M32	Brass

Two part sealing compound and assembly instructions are supplied with the cable gland.



SB 656N/OSP



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Flameproof, Increased Safety, Dust Protection **Class - Zones - Divisions**

Certified ATEX / IECEx / c CSA us

Application

- Outdoor or indoor use.
- For use with conduit incorporating individual insulated conductors.
- For particular use with:-
 - Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
 - Cables that exhibit 'Cold Flow' characteristics.
 - Enclosures containing an ignition source in gas group IIC areas or containing an ignition source in a Zone 1 area and exceeding 2 litres in volume.
- See technical section for installation rules and regulations.

				CABLE GLA	ND SELECT	ION TABLE				
		Entry Thre	ad Size 'F'		Inn	er Sheath / Co	No.		Hoveron Dimensions	
	Male		Female		1010	er Sneath / CC	nes	'G'	Hexagon Dimensions	
Size Ref.	Metric	NPT * Standard or Option	Metric	NPT * Standard or Option	Max. Over Cores 'B'	Max Inner Sheath 'E'	Max. No. of Cores	Metric	Across Flats	Across Corners
А	M20	3⁄4" or 1⁄2"	M20	34" or 1⁄2"	11.0	12.5	15	74	30.0	32.5
В	M25	1" or ¾"	M25	1" or ¾"	16.2	18.4	30	65	36.0	39.5
C	M32	1¼" or 1"	M32	1¼" or 1"	21.9	24.7	42	80	46.0	50.5
C2	M40	1½" or 1¼"	M40	1½" or 1¼"	26.3	29.7	60	83	55.0	60.6
D	M50	2" or 1½"	M50	2" or 1½"	37.1	41.7	80	94	65.0	70.8
E	M63	21⁄2" or 2"	M63	2½" or 2"	47.8	53.5	100	97	80.0	88.0
F	M75	3" or 2½"	M75	3" or 2½"	59.0	66.2 / 65.3 ¹	120	100	95.0	104.0
'T' — All dim	ensions in mill	limetres (excer	ot * where dim	ensions are in	inches) Metr	ic entry thread	ls are 15mm r	nitch as standa	rd 15mm len	ath of thread

— All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard, 15mm length of thread.

¹Smaller value is applicable when selecting reduced NPT male entry option. Hexagon dimensions as shown may alter.

Technical Data

ATEX/IECEx

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🖾 II 2 GD.
- Certificate No's: Baseefa06ATEX0058X and IECEx BAS 06.0015X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days)to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 375.

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- Flameproof AExd IIC Gb, Increased Safety AExe IIC Gb and Dust AExtD Zone 21.
- Explosion-proof Class 1 Division 2 Groups ABCD, Class II Division 2 Groups EFG, Class III.
- Certificate No's: CSA1015065 for Marine Shipboard Cable.
- Construction and Test Standards: 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

Features

- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the products of an explosion into the cable or conduit.
- Seals conductors at entry to enclosure via conduit or enables an existing cable gland to be converted to a barrier type cable gland.
- The device is fitted with a simple compound filled chamber which permits packing around individual insulated conductors.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- If required, external voids can be repaired.
- Provides female running coupler for cable gland or conduit entry.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

Ordering Information

Format for ordering is as follows:

		-			
	Cable Gland Type	Size	Male Thread	Female Thread	Material
1	CSB 656N	С	M32	M32	Brass
	CSB 656N	С	1 ¼" NPT	M32	Brass

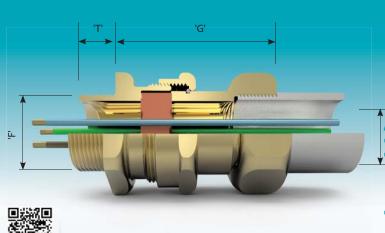
Two part sealing compound and assembly instructions are supplied with the cable gland.

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certificat



Flameproof, Increased Safety, Dust Protection **Class - Zones - Divisions** Certified ATEX / IECEx

Application

- Outdoor or indoor use.
- For particular use with:-
- Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers. Cables that exhibit 'Cold Flow' characteristics.
- See technical section for installation rules and regulations.

CABLE GLAND SELECTION TABLE								
		Entry Thre	ad Size 'F'			Hexagon Dimensions		
Size Ref.		Male		Female				
	Metric	NPT * Standard or Option	Metric	NPT # Standard or Option		Across Flats Acro		
А	M20	3⁄4" or 1⁄2"	M20	-	69.0	30.0	32.5	
В	M25	1" or ¾"	M25	-	61.0	36.0	39.5	
C	M32	1¼" or 1"	M32	-	61.95	46.0	50.5	
'T' — All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard, 15mm length of thread.								

NPT female thread sizes equivalent to those shown in the table for the male thread size are available. Hexagon dimensions as shown may alter.

Technical Data

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db 🐼 II 2 GD.
- Certificate No's: Baseefa06ATEX0056X and IECEx BAS 06.0013X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.

CABLE GLAND SIZE FOR CORE SIZE AND NUMBER

2.5

A & B

Cores Cross Sectional Area mm²

4.0

B & C

6.0

C

В

10.0

C

В

Deluge Protection to DTS01.

Max. No.

of Cores

7 4

3

- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 309.

1.5

A & B

Features

- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the products of an explosion into the cable.
- The required number of holes for the cores are punched in the seal by means of a special tool to suit the core size.
- Provides female running coupler for cable gland or conduit entry.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

PUNCH TOOL SIZE DETAILS								
Punch Ref.	No. 1	No. 2	No. 3					
Cores C.S.A.mm ²	1.5 - 2.5	4.0 - 6.0	10.0					

Ordering Information

To select the correct size punch tool, please see table. Format for ordering is as follows:

Cable Gland Type	Size	Thread	Material	Punch Tool Required
SB 474	С	M32	Brass	Punch Tool No. 1
SB 474	С	1 ¼" NPT	Brass	Punch Tool No. 1



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Connection Solutions

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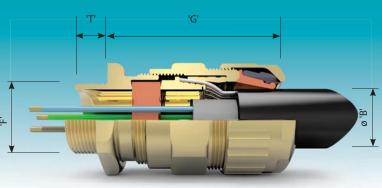
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Flameproof, Increased Safety, Dust Protection Class - Zones - Divisions Certified ATEX / IECEx

Application

- Outdoor or indoor use.
- 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 are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
 - Cables that exhibit 'Cold Flow' characteristics.
- See technical section for installation rules and regulations



	CABLE GLAND SELECTION TABLE									
	Entry Thr	ead Size 'F'		Cable Acc	eptance Details			Hexagon Dimensions		
Size Ref.	Metric	NPT * Standard or	Outer S	heath 'B'	Armour	/ Braid 'C'	'G'	Across Flats Across		
nen	Metric	Option	Min.	Max.	Orientation 1	Orientation 2		ACIOSS FIBLS	Corners	
А	M20	3⁄4" or 1⁄2"	12.5	20.5	0.8 / 1.25	0.0 / 0.8	53.0	30.0	32.5	
В	M25	1" or ¾"	16.9	26.0	1.25 / 1.6	0.0 / 0.7	69.5	36.0	39.5	
С	M32	1¼" or 1"	22.0	33.0	1.6 / 2.0	0.0 / 0.7	64.0	46.0	50.5	
	'T' — Metric entry threads are 1.5mm pitch as standard, 15mm length of thread.									

I — Metric entry threads are 1.5mm pitch as standard, 15mm length of thread All dimensions in millimetres (except * where dimensions are in inches).

Technical Data

- Flameproof Exd IIC Gb, Increased Safety Exe IIC Gb and Dust Extb IIIC Db () II 2 GD.
- Certificate No's: Baseefa06ATEX0056X and IECEx BAS 06.0013X.
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X.
- Deluge Protection to DTS01 (Deluge Seal Optional).
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 312.

Features

- Provides a barrier seal to the individual insulated cores within the cable and prevents entry of the products of an explosion into the cable.
- The required number of holes for the cores are punched in the seal by means of a special tool to suit the core size.
- Provides armour clamping using one clamping arrangement for all armour / braid types.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Deluge protection option available, contact Hawke Technical Sales for details.
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium.
- Brass NPT entries are nickel plated as standard.

CABLE G	LAND SIZ	E FOR C	ORE SIZI	E AND N	UMBER		
Max. No.	Cores Cross Sectional Area mm ²						
of Cores	1.5	2.5	4.0	6.0	10.0		
7	A & B	A & B	B&C	С	С		
4	-	-	-	В	-		
3	-	-	-	-	В		

PUN	CH TOOL SIZ	E DETAILS	
Punch Ref.	No. 1	No. 2	No. 3
Cores C.S.A.mm ²	1.5 - 2.5	4.0 - 6.0	10.0

Deluge protection option available.

Ordering Information

To select the correct size punch tool, please see table. Format for ordering is as follows:

Cable Gland Type	Size	Thread	Material	Punch Tool Required
PSG 553/RAC	С	M32	Brass	Punch Tool No. 1
PSG 553/RAC	С	1 ¼" NPT	Brass	Punch Tool No. 1



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