



国家防爆

Electrical Apparatus for Explosive Atmospheres

# CERTIFICATE OF CONFORMITY

Cer. No.: CNEx17.2859X

**Applicant** Hawke International  
A Division of Hubbell Limited A Member of the Hubbell Group of Company  
Oxford Street West Ashton-Under-Lyne Lancashire OL7 0NA  
United Kingdom

**Name of Product** Cable Glands

**Type of Product** ICG623, ICG653, ICG653UNIV, ICG659, ICG611, CSB656 and CSB656N

**Marking** Ex dIIC Gb/Exe IIC Gb/Ex nR IIC Gc / Ex tD A21 IP66 (-60°C ≤ Ta ≤ +80°C)

**Standard/ Specification** ---

**Drawing No.** ICG623 Issue K, ICG65 Issue K, ICG653 UNIV Issue K, ICG659, ICG611 Issue J, CSB656 Issue J and CSB656N Issue K

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB3836.1-2010 Explosive atmospheres - Part 1: General Requirements

GB3836.2-2010 Explosive atmospheres -Part 2: Equipment protection by flameproof enclosures "d"

GB3836.3-2010 Explosive atmospheres -Part 3: Equipment protection by increased safety "e"

GB12476.1-2013 Electrical apparatus for use in the presence of combustible dust- Part 1: General requirement

GB12476.5-2013 Electrical apparatus for use in the presence of combustible dust- Part 5: Protection by enclosures "tD"

GB3836.8-2014 Electrical apparatus- Part 8: Equipment protection by type of protection "n"

**Note** See the annex

**Valid Date** From August 20, 2017 to August 19, 2022

**Issue Date** August 20, 2017

**Director**



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1. The cable glands shall only be used where the temperature, at the point of entry, is within the range  $-60^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$ .
2. When the gland is used for increased safety, the entry thread shall be suitably sealed to maintain the ingress protection rating of the associated enclosure.
3. The alternative thread of the entry thread can be the following form: PG, BSPP, BSPT, NPSM and ET(Imperial Conduit).
4. When used with lead sheathed cables the gland type reference will include a letter "L".

CABLE GLAND SELECTION TABLE FOR TYPE ICG 623												
Size ref.	Entry thread size		Cable Acceptance Details							Max Length	Hexagon dimensions	
			Inner Sheath/Cores			Outer Sheath						
						Standard Seal		Alternative Seal (S)				
	Metric	NPT	Max Over Cores	Max inner sheath	Max No of Cores	Min	Max	Min	Max	Across flats	Across corners	
Os	M20	1/2"	8.0	8.0	6	3.0	8.0	----	----	66	24.0	27.7
O	M20	1/2"	8.9	10.0	6	7.5	11.9	----	----	66	24.0	27.7
A	M20	1/2"-3/4"	11.0	12.5	10	11.0	14.3	8.5	13.4	63	30.0	34.6
B	M25	3/4"-1"	16.2	18.4	21	13.0	20.2	9.5	15.4	68	36.0	41.6
C	M32	1"-1 1/4"	21.9	24.7	42	19.0	26.5	15.5	21.2	70	46.0	53.1
C2	M40	1 1/4"-1 1/2" 2"	26.3	29.7	60	25.0	32.5	22.0	28.0	72	55.0	63.5
D	M50	1 1/2"-2"	37.1	41.7	80	31.5	44.4	27.5	34.8	87	65.0	75.1
E	M63	2"-2 1/2"	47.8	53.5	100	42.5	56.3	39.0	46.5	90	80.0	92.4
F	M75	2 1/2"-3"	59.0	65.3/ 66.2	120	54.5	68.2	48.5	58.3	92	95.0	109.6

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CABLE GLAND SELECTION TABLE FOR TYPE ICG 653															
Size ref.	Entry thread size		Cable Acceptance Details										Max Length	Hexagon dimensions	
			Inner Sheath/Cores						Outer Sheath		Standard  Steel	Wire Braid 'X'			
	Max Over Cores	Max inner sheath	Max No of Cores	#Dia over lead		Min	Max								
				Max	Min			Wire 'W'							
Os	M20	1/2"	8.9	10.0	6	7.5	4.0	5.5	12.0	0.9/ 1.25	0.2/ 0.35	0.2/0.8	78	24.0	27.7
O	M20	1/2"	8.9	10.0	6	8.5	4.0	9.5	16.0	0.9/ 1.25	0.2/ 0.35	0.2/0.8	78	24.0	27.7
A	M20	1/2"-3/4"	11.0	12.5	10	10.8	7.4	12.5	20.5	0.9/ 1.25	0.2/ 0.35	0.2/0.8	79	30.0	34.6
B	M25	3/4"-1"	16.2	18.4	21	16.7	11.0	16.9	26.0	1.25/ 1.6	0.2/ 0.35	0.2/1.0	82	36.0	41.6
C	M32	1"-1 1/4"	21.9	24.7	42	22.5	14.0	22.0	33.0	1.6/ 2.0	0.2/ 0.35	0.2/1.4	88	46.0	53.1
C2	M40	1 1/4"- 1 1/2"	26.3	29.7	60	28.5	21.0	28.0	41.0	1.6/ 2.0	0.3/ 0.45	0.2/1.8	94	55.0	63.5
D	M50	1 1/2"-2"	37.1	41.7	80	40.0	27.0	36.0	52.6	2.0/ 2.5	0.4/ 0.45	0.2/1.8	108	65.0	75.1
E	M63	2"-2 1/2"	47.8	53.5	100	52.0	39.0	46.0	65.3	2.5	0.4/ 0.45	0.2/1.8	113	80.0	92.4
F	M75	2 1/2"-3"	59.0	65.3/ 66.2	120	63.8	51.0	57.0	78.0	2.5	0.4/ 0.45	0.2/1.8	116	95.0	109.6

\*When earth connection device is fitted for use with lead sheath cables the maximum diameter over lead sheath is as per column in this table.

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CABLE GLAND SELECTION TABLE FOR TYPE ICG 653 UNIV

Size ref.	Entry thread size		Cable Acceptance Details									Max Length	Hexagon dimensions	
			Inner Sheath/Cores					Outer Sheath		Steel Wire Armour/ Tape/Braid				
	Metric	NPT	Max Over Cores	Max inner sheath	Max No of Cores	*Dia over lead		Min	Max	Orienta tion 1	Orienta tion 2		Across flats	Across corner
						Max	Min							
Os	M20	1/2"	8.9	10.0	6	10.5	4.0	5.5	12.0	0/0.7 0.9/1.25	0.4/0.8 0.8/1.0	83.0	24.0	27.7
O	M20	1/2"	8.9	10.0	6	10.5	4.0	9.5	16.0	0/0.7 0.9/1.25	0.4/0.8 0.8/1.0	83.0	24.0	27.7
A	M20	1/2"-3/4"	11.0	12.5	10	13.0	7.4	12.5	20.5	0/0.7 0.9/1.25	0.4/0.8 0.8/1.0	84.0	30.0	34.6
B	M25	3/4"-1"	16.2	18.4	21	19.0	11.0	16.9	26.0	0/0.7 1.25/1.6	0.5/0.9 0.9/1.25	91.0	36.0	41.6
C	M32	1"-1 1/4"	21.9	24.7	42	25.0	14.0	22.0	33.0	0/0.7 1.6/2.0	0.6/1.2 1.2/1.6	98.0	46.0	53.1
C2	M40	1 1/4"- 1 1/2"	26.3	29.7	60	31.2	21.0	28.0	41.0	0/0.7 1.6/2.0	0.6/1.2 1.2/1.6	100.0	55.0	63.5
D	M50	1 1/2"-2"	37.1	41.7	80	42.3/42.8	27.0	36.0	52.6	0/1.0 1.8/2.5	1.0/1.45 1.45/1.8	116.0	65.0	75.1
E	M63	2"-2 1/2"	47.8	53.5	100	53.5/54.5	39.0	46.0	65.3	0/1.0 1.8/2.5	1.0/1.45 1.45/1.8	124.0	80.0	92.4
F	M75	2 1/2"-3"	59.0	65.3/66.2	120	64.3/66	51.0	57.0	78.0	0/1.0 1.8/2.5	1.0/1.45 1.45/1.8	122.0	95.0	109.6

\* When earth connection device is fitted for use with lead sheath cables the maximum diameter over lead sheath is as per column in this table.

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FLEXIBLE CONDUIT GLAND SELECTION TABLE FOR TYPE ICG 659

Size Ref (Conduit Size)	Kopex Ref	Across flats	Across Corners	Metric/NPT	Max. Dia Over Cores	Max No Of Cores	Overall Length	
							Max	Min
16/ 3/8"	HAM*0304	30.0	34.6	M20	8.9	6	56.8	49.1
	HAA*0304			1/2"				
	HAA*0305			3/4"				
20/ 1/2"	HAM*0404	30.0	34.6	M20	11.0	10	59.9	51.6
	HAA*0404			1/2"				
	HAA*0405			3/4"				
25/ 3/4"	HAM*0505	36.0	41.6	M25	16.2	21	63.4	55.3
	HAA*0505			3/4"				
	HAA*0506			1"				
32/1"	HAM*0606	46.0	53.1	M32	21.9	42	70.9	61.5
	HAA*0606			1"				
	HAA*0607			1 1/4"				
40/ 1 1/4"	HAM*0707	55.0	63.5	M40	26.3	60	75.9	67.0
	HAA*0707			1 1/4"				
50/ 1 1/2"	HAM*0808	65.0	75.1	M50	37.1	80	83.5	75.2
	HAA*0808			1 1/2"				
63/ 2"	HAM*0909	80.0	92.4	M63	47.8	100	92.0	85.5
	HAA*0909			2"				

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CABLE GLAND SELECTION TABLE FOR TYPE ICG 611

CABLE GLAND SELECTION TABLE FOR TYPE ICG 611											
Size Ref.	Entry thread size		Cable Acceptance Details						Max Length	Hexagon Dimensions	
			Inner Sheath/Cores					Outer Sheath			
	Metric	NPT	Max Over Cores	Metal Clad Sheath		Max No of Cores	Min	Max		Across Flats	Across Corners
				Min	Max						
A	M20	1/2"-3/4"	11.0	10.5	16.3	10	12.5	20.5	108	30.0	34.6
B	M25	3/4"-1"	16.2	12.4	23.8	21	16.9	26.0	119	36.0	41.6
C	M32	1"-1 1/4"	24.9	21.7	31.4	42	22.0	33.0	122	46.0	53.1
C2	M40	1 1/4"-1 1/2"	26.3	29.6	40.4	60	28.0	41.0	129	55.0	63.5
D	M50	1 1/2"-2"	37.1	34.9	50.0	80	36.0	52.6	152	65.0	75.1
E	M63	2"-2 1/2"	47.8	44.6	64.8	100	46.0	65.3	152	80.0	92.4
F	M75	2 1/2"-3"	59.0	58.2	75.9	120	57.0	78.0	159	95.0	109.6

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CABLE GLAND SELECTION TABLE FOR TYPE CSB 656 and CSB 656N											
Size Ref.	Male Entry Thread Size		Female Entry Thread Size		Inner Sheath/Cores			Max Length	Hexagon Dimensions		Allen Key Size (mm)
	Metric	NPT	Metric	NPT	Max Over Cores	Max Inner Sheath	Max No of Cores		Across Flats	Across Corners	
A	M20	1/2"-3/4"	M20	1/2"-3/4"	11.0	12.5	10	56	30.0	34.6	2.0
B	M25	3/4"-1"	M25	3/4"-1"	16.2	18.4	21	56	36.0	41.6	2.5
C	M32	1"-1 1/4"	M32	1"-1 1/4"	21.9	24.7	42	58	46.0	53.1	2.5
C2	M40	1 1/4"-1 1/2"	M40	1 1/4"-1 1/2"	26.3	29.7	60	58	55.0	63.5	2.5
D	M50	1 1/2"-2"	M50	1 1/2"-2"	37.1	41.7	80	64	65.0	75.1	2.5
E	M63	2"-2 1/2"	M63	2"-2 1/2"	47.8	53.5	100	64	80.0	92.4	2.5
F	M75	2 1/2"-3"	M75	2 1/2"-3"	59.0	65.3/ 66.2	120	68	95.0	109.6	2.5

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