



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312313000317

Applicant Hawke International (A Division of Hubbell Limited, A member of the Hubbell group of Companies)

Address Oxford Street West, Ashton-Under-Lyne, Lancashire, OL7 0NA, UK

Manufacturer Hawke International (A Division of Hubbell Limited, A member of the Hubbell group of Companies)

Address Oxford Street West, Ashton-Under-Lyne, Lancashire, OL7 0NA, UK

Production Factory Hawke International (A Division of Hubbell Limited, A member of the Hubbell group of Companies)

Production Address Oxford Street West, Ashton-Under-Lyne, Lancashire, OL7 0NA, UK

Product Barrier and Diaphragm Seal Hybrid Cable Glands

Model/Type ICG 653 UNIV

Ex marking Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db

Reference Standards GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021, GB/T 3836.31-2021

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (4 pages).

Initial issue date: 2021-04-26

Issued date: 2023-04-29

Valid to: 2026-04-25

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical Apparatus Research Institute Co.,Ltd.



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Product information:

1. This certificate covers the following models:

- ICG 653 UNIV

The ranges of cable glands are designed in two versions: barrier and diaphragm seal. A further version which is a hybrid of the barrier and diaphragm seal glands is included.

ICG 653 UNIV specifications

Spec. code	THREAD SIZES		ICG 653/UNIV				
	Metric	NPT	MAX INNER SHEATH DIA		MAX OVER CORES DIA	MAX QTY OF CORES	MAX QTY OF FIBRE
			STD	LEAD			
Os	M16	1/2"	8.1	8.0	8.0	12	48
	M20						
O	M16	1/2"	11.7	10.2	8.8	12	48
	M20						
A	M20	1/2"	14.0	12.5	10.8	15	72
		3/4"					
B	M25	3/4"	19.9	18.0	15.9	30	144
		1"					
C	M32	1"	26.2	24.3	21.9	42	-
		1 1/4"					
C2	M40	1 1/4"	32.3	30.3	26.7	60	-
		1 1/2"					

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D	M50	1 1/2"	44.2	41.9	37.7	80	-
		2"					
E	M63	2"	56.0	52.9	49.0	100	-
		2 1/2"					
F	M75	2 1/2"	68.0	64.9	59.8	120	-
		3"					

ICG 653/UNIV Hybrid specifications

Spec. code.	THREAD SIZES 'M'		ICG 653/UNIV HYBRID						
	Metric	NPT	MAX INNER SHEATH DIA		MAX OVER CORES DIA	MAX QTY OF CORES	MAX QTY OF FIBRE	OUTER SHEATH	
			STD	LEAD				MIN	MAX
	A/Os	M16	1/2"	14.0	12.5	10.8	15	72	5.5
M20		3/4"							
A/O	M16	1/2"	14.0	12.5	10.8	15	72	9.5	16.0
	M20	3/4"							
B/A	M25	3/4"	11.1	19.7	12.0	20.5	144	12.0	20.5
		1"							
C/B	M32	1"	17.6	26.5	16.9	26.0	-	16.9	26.0
		1 1/4"							
C2/C	M40	1 1/4"	23.1	32.5	22.0	33.0	-	22.0	33.0
		1 1/2"							

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D/C2	M50	1 1/2"	28.9	42.3	28.0	41.0	-	28.0	41.0
		2"		44.4					
E/D	M63	2 1/2"	39.9	54.3	36.0	56.6	-	36.0	56.6
		2"		56.3					
F/E	M75	2"	39.9	54.3	46.0	65.3	-	46.0	65.3
		2 1/2"		56.3					

The Type ICG 653 UNIV Cable gland comprises the following components:

- a) IP washer
- b) Entry nut
- c) Deluge seal
- d) Silicone pot
- e) Spigot
- f) Wire VBL clip only on /L configurations (Lead sheath)
- g) Clamping ring
- h) Middle nut
- i) Back nut
- j) Back nut clamp
- k) Back nut seal

Ingress Protection: IP66/IP67/IPX8

IPX8 at 30m for 7 days

Ex marking: Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db

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- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- Glands are suitable for use within an operating temperature range of -60°C to +80°C.
- Cable glands of type ICG 653 UNIV, when fitted with unarmoured cables, shall be provided with an additional clamping device to prevent pulling or twisting forces transmitting to the terminations.
- The ICG 653 UNIV cable glands when fitted with cold shrink on the cable outer sheath of specific cable types, the assembly instruction shall be implemented with Hawke drawing No. 320000 for those particular cable types.
- Glands for use with braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2011C072, CQST2011C072/01
- Factory inspection report: CN2023Q030133

4. Certificate change information:

- 1st change on April 29, 2023:
 - 1) Updated the standards for certification.
 - 2) Removed Ex marking Ex nR IIC Gc.

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