



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312313000318

**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** 501/453 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 (3 pages).

Initial issue date: 2021-03-01

Issued date: 2023-04-29

Valid to: 2026-02-28

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.



<http://www.ccc-cnex.com>  
[ccc.china-ex.com](http://ccc.china-ex.com)

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China  
Tel: 0377-63239734

P.C.: 473008  
Email: [ccc@cn-ex.com](mailto:ccc@cn-ex.com)

CN 0001836





# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2020312313000318

Page 1 of 3

**Product information:**

1. This certificate covers the following models:

- 501/453 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.

**501/453 UNIV specifications:**

Spec. code	THREAD TYPE		501/453 UNIV			
	Metric	NPT	INNER SHEATH		OUTER SHEATH	
			MIN	MAX	MIN	MAX
Os	M16×1.5	1/2"	3.5	8.1	5.5	12.0
	M20×1.5					
O	M16×1.5	1/2"	6.5	11.4	9.5	16.0
	M20×1.5					
A	M20×1.5	1/2"	8.4	14.3	12.5	20.5
		3/4"				
B	M25×1.5	3/4"	11.1	19.7	16.9	26.0
		1"				
C	M32×1.5	1"	17.6	26.5	22.0	33.0
		1 1/4"				
C2	M40×1.5	1 1/4"	23.1	32.5	28.0	41.0
		1 1/2"				
D	M50×1.5	1 1/2"	28.9	44.4	36.0	52.6
		2"				
E	M63×1.5	2"	39.9	56.3	46.0	65.3
		2 1/2"				
F	M75×1.5	2 1/2"	50.5	68.2	57.0	78.0
		3"				

**501/453 UNIV Hybrid specifications:**

Issued date: 2023-04-29

Director:



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







# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

## (Annex)

No.: 2020312313000318

Page 2 of 3

Spec. code	THREAD TYPE		501/453/UNIV HYBRID			
	Metric	NPT	INNER SHEATH		OUTER SHEATH	
			MIN	MAX	MIN	MAX
A/Os	M16×1.5	1/2"	8.4	14.3	5.5	12.0
	M20×1.5	3/4"				
A/O	M16×1.5	1/2"	8.4	14.3	9.5	16.0
	M20×1.5	3/4"				
B/A	M25×1.5	3/4"	11.1	19.7	12.0	20.5
		1"				
C/B	M32×1.5	1"	17.6	26.5	16.9	26.0
		1 1/4"				
C2/C	M40×1.5	1 1/4"	23.1	32.5	22.0	33.0
		1 1/2"				
D/C2	M50×1.5	1 1/2"	28.9	42.3	28.0	41.0
		2"		44.4		
E/D	M63×1.5	2 1/2"	39.9	54.3	36.0	56.6
		2"		56.3		
F/E	M75×1.5	2"	39.9	54.3	46.0	65.3
		2 1/2"		56.3		

The Type 501/453 UNIV Cable gland comprises the following components:

- a) IP washer
- b) Entry nut
- c) Deluge seal
- d) Diaphragm seal
- e) Spigot
- f) Clamping ring
- g) Middle nut
- h) Back nut
- i) Back nut clamp
- j) Back nut seal

Ingress Protection: IP66/IP67/IP68      IPX8 at 30m for 7 days

Issued date: 2023-04-29

Director:



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







# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

## (Annex)

No.: 2020312313000318

Page 3 of 3

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

- 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 501/453/UNIV, when fitted with unarmoured cables, shall be provided with an additional clamping device to prevent pulling or twisting forces transmitting to the terminations.
  - 501/453 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: CQST2010C075, CQST2010C075/01
  - Factory inspection report: CN2023Q030133
- 4. Certificate change information:
  - 1st change on April 29, 2023:
    - 1) Updated the standards for certification.
    - 2) Removed the marking of Ex nR IIC Gc.

Issued date: 2023-04-29

Director: 



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

