



国家防爆

Electrical Apparatus for Explosive Atmospheres

CERTIFICATE OF CONFORMITY

Cer. No.: CNEx 17.2860X

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 501/453 UNIV

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

**Standard/
Specification** ---

Drawing No. 501/453 UNIV Issue M

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



CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE
FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS

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1. These glands are suitable for use within an operating temperature range of -60°C to +80°C.
2. When the gland is used for increased safety or dust protection, the entry thread shall be suitably sealed to maintain the ingress protection rating of the associated enclosure.
3. 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.
4. The alternative thread of the entry thread can be the following form: PG, BSPP, BSPT, NPSM and ET(Imperial Conduit).
5. When used with lead sheathed cables the gland type reference will include a letter "L".

CABLE GLAND SELECTION TABLE FOR TYPE-501/453 UNIV

Size ref.	Entry thread size						Max length	Hexagon dimensions	
	Metric	NPT	Imperial conduit	Pg	BSPP BSPT	NPSM		Across flats	Across corners
Os	M16/M20	1/2"	3/4"	13.5 or 11.0	1/2"	1/2"	64.4	24.0	27.7
O	M16/M20	1/2"	3/4"	13.5 or 11.0	1/2"	1/2"	64.4	24.0	27.7
A	M20	1/2"-3/4"	3/4"	16.0	1/2"-3/4"	1/2"-3/4"	65.4	30.0	34.6
B	M25	3/4"-1"	1"	21.0	3/4"-1"	3/4"-1"	71.0	36.0	41.6
C	M32	1"-1 1/4"	1 1/4"	29.0	1"-1 1/4"	1"-1 1/4"	76.0	46.0	53.1
C2	M40	1 1/4"-1 1/2"	1 1/2"	36.0	1 1/4"-1 1/2"	1 1/4"-1 1/2"	78.1	55.0	63.5
D	M50	1 1/2"-2"	2"	42.0	2"	2"	93.1	65.0	75.1
E	M63	2"-2 1/2"	2 1/2"	---	2 1/2"	2 1/2"	99.0	80.0	92.4
F	M75	2 1/2"-3"	3"	---	3"	3"	101.9	95.0	109.6

Cable Acceptance Details

Size ref.	Inner Sheath				Outer sheath		RAC Steel Wire Armour/Tape/Braid	
	Min	Max	*Dia over lead		Min	Max	Orientation 1	Orientation 2
Os	3.0	8.1	---	---	5.5	12.0	0/0.7, 0.9/1.25	0.4/0.8, 0.8/1.0
O	6.5	10.9/11.9	10.5	6.5	9.5	16.0	0/0.7, 0.9/1.25	0.4/0.8, 0.8/1.0
A	8.4	14.3	13.0	8.4	12.5	20.5	0/0.7, 0.9/1.25	0.4/0.8, 0.8/1.0
B	11.1	20.2	19.0	11.1	16.9	26.0	0/0.7, 1.25/1.6	0.5/0.9, 0.9/1.25
C	17.6	26.5	25.0	17.6	22.0	33.0	0/0.7, 1.6/2.0	0.6/1.2, 1.2/1.6
C2	23.1	32.5	31.2	23.1	28.0	41.0	0/0.7, 1.6/2.0	0.6/1.2, 1.2/1.6
D	28.9	42.3/44.4	42.3/42.8	28.9	36.0	52.6	0/1.0, 1.8/2.5	1.0/1.45, 1.45/1.8
E	39.9	54.3/56.3	53.3/54.5	39.9	46.0	65.3	0/1.0, 1.8/2.5	1.0/1.45, 1.45/1.8
F	50.5	65.3/68.2	64.3/66.0	50.5	57.0	78.0	0/1.0, 1.8/2.5	1.0/1.45, 1.45/1.8

* 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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