



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000411

Applicant Bimed Teknik Aletler Sanayi Ve Ticaret A.S.
Address S.S Bakir Piring Sanayi Sitesi Leylak Caddesi no:16, TR - 34524
Beylikdüzü – Istanbul, Turkey
Manufacturer Bimed Teknik Aletler Sanayi Ve Ticaret A.S.
Address S.S Bakir Piring Sanayi Sitesi Leylak Caddesi no:16, TR - 34524
Beylikdüzü – Istanbul, Turkey
Production Factory Bimed Teknik Aletler Sanayi Ve Ticaret A.S.
Production Address S.S Bakir Piring Sanayi Sitesi Leylak Caddesi no:16, TR - 34524
Beylikdüzü – Istanbul, Turkey
Product Cable Glands
Model/Type KBAxxxxxxxxxx, KBATxxxxxxxxxx, KBAxxxxxxxx-LSK-xx,
KBAxxxxxxLTxxxxx
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 (11 pages).

Initial issue date: 2021-06-28

Issued date: 2023-04-22

Valid to: 2026-06-27

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:



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CN 0001929



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Product information:

1. This certificate covers the following models:

- KBAxxxxxxxxxx, KBATxxxxxxxxxx, KBAxxxxxxxx-LSK-xx, KBAxxxxxxLTxxxxx

The cable glands series KBAxxxxxxxxxx (commercial gland family named ORION), KBAxxxxxxxx-LSK-xx (commercial gland family named ORION LEAD SHEATHED), KBATxxxxxxxxxx (commercial gland family named TAURUS) and KBAxxxxxxLTxxxxx (commercial gland family named ORION LT) are suitable for inserting circular cables into Ex db enclosures having threaded entries and Ex eb or Ex tb enclosures having either threaded or plane entries. Attachment of the glands to an enclosure is by means of the male threaded portion on the male body. An elastomeric inner sealing ring is used in each gland type to facilitate sealing between the cable and gland body and to clamp the cable to prevent pulling or twisting forces being transmitted to the conductor connections.

See the following table for detailed type designation of KBAxxxxxxxxxx, KBATxxxxxxxxxx:

	<u>xxxx</u>	<u>x</u>	<u>xxx</u>	<u>x</u>	<u>(xx)</u>	<u>xx</u>	<u>x</u>	<u>=</u>	<u>x</u>
	1	2	3	4	5	6	7	-	8

1	Code that identifies the type: - KBA: cable gland for armoured or shielded cable - KBAT: cable gland for armoured or shielded cable
2	Code that identifies the cable type (KBA** type only): - Blank: Standard (for armoured cables only) - U: Universal (for armoured or shielded cables) - O: Offshore (for shielded cables only)
3	Size (see Table 1 and 2)

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4	Type of thread: - N: NPT - P: PG (assessed for Ex eb protection mode only) - M: Metric pitch 1.5
5	Thread size (see Table 1 and 2)
6	Manufacturing material: - A: Aluminum alloy (KBA** type and M25 up to M75 sizes only) - B: brass - BN: nickel-plated brass - X: stainless steel - Z: galvanized carbon steel
7	Seals material: - C: Chloroprene (Neoprene) - S: Silicon rubber
8	Flat washer - Blank: none - WC: with flat washer in Chloroprene(Neoprene) - WS: with flat washer in Silicon rubber - WF: with flat washer in Fiber

See the following table for detailed type designation of KBAxxxxxxxx-LSK-xx:

KBA	xxx	x	(xx)	xx	x	-	LSK	-	xx
	1	2	3	4	5	-	LSK	-	6

1	Size (see Table 3)
2	Type of thread: - N: NPT - P: PG (assessed for Ex eb protection mode only) - M: Metric pitch 1.5

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3	Thread size (see Table 3)
4	Manufacturing material: - A: Aluminum alloy (M25 up to M75sizes only) - B: brass - BN: nickel-plated brass - X: stainless steel - Z: galvanized carbon steel
5	Seals material: - C: Chloroprene (Neoprene) - S: Silicon rubber
6	Flat washer - Blank: none - WC: with flat washer in Chloroprene(Neoprene) - WS: with flat washer in Silicon rubber - WF: with flat washer in Fiber

See the following table for detailed type designation of KBAxxxxxxxLTxxxxx:

KBA	<u>x</u>	<u>xxx</u>	<u>x</u>	<u>(xx)</u>	LT	<u>xx</u>	<u>x</u>	-	<u>xx</u>
	1	2	3	4	5	6	7	-	8

1	Code which identifies the cable type: - Blank: standard (for armoured cables only) - U: universal (for armoured or shielded cables) - O: offshore (for shielded cables only)
2	Size (see Table 4 and 5)
3	Type of thread: - N: NPT ANSI/ASME B1.20.1 - P: PG DIN 40430 (assessed for Ex eb protection mode only) - M: GB/T197, GB/T2516 pitch 1.5 (pitch 2.0 for sizes M90 up to M130)

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4	Thread size (see Table 4 and 5)
5	Orion-LT (Lower temperature) cable gland series
6	Manufacturing material: - B: brass - BN: nickel-plated brass - X: stainless steel - Z: galvanized carbon steel
7	Seals material: - C: Chloroprene (Neoprene) - S: Silicon rubber
8	Flat washer - Blank: none - WC: with flat washer in Chloroprene (Neoprene) - WS: with flat washer in Silicon rubber - WF: with flat washer in Fiber

Table 1:

KBAXXXXXXXXXXX (Orion)					
Cable glands		Thread size		Cable Dia. Ranges(mm)	
Type	Size	NPT	Metric pitch 1.5	Inner sheath	Armour sheath
KBA	0S..	1/4"	M 12	2-4	3-5.5
KBA	SL..	1/4"	M 12	3-7.5	6-12
KBA	01S..	3/8"	M 16	3-8.5	6-12
KBA	01..	3/8"	M 16	6-12	8.5-16
KBA	1S..	1/2"	M 20	3-8.5	6-12
KBA	1..	1/2"	M 20	6-12	8.5-16
KBA	1L..	1/2"	M 20	8.5-14.5	12-20
KBA	2XS..	3/4"	M 25	3-8.5	6-12
KBA	2S..	3/4"	M 25	6-12	8.5-16
KBA	2..	3/4"	M 25	8.5-16	12-21

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KBA	2L..	3/4"	M 25	12-20	16-26
KBA	3XS..	1"	M 32	6-12	8.5-16
KBA	3S..	1"	M 32	12-20	16-26
KBA	3..	1"	M 32	15-26	20-33
KBA	4XS..	1 1/4"	M 40	12-20	16-26
KBA	4S..	1 1/4"	M 40	15-26	20-33
KBA	4..	1 1/4"	M 40	20-32	29-41
KBA	5XS..	1 1/2"	M 50	15-26	20-33
KBA	5X..	1 1/2"	M 50	20-32	29-41
KBA	5S..	1 1/2"	M 50	22-35	33-48
KBA	5..	1 1/2"	M 50	27-41	36-52
KBA	6XS..	2"	M 63	22-35	33-48
KBA	6X..	2"	M 63	27-41	36-52
KBA	6S..	2"	M 63	35-45	43-57
KBA	6..	2"	M 63	40-52	47-60
KBA	6L..	2"	M 63	45-56	54-70
KBA	7XS..	2 1/2"	M 75	35-45	43-57
KBA	7S..	2 1/2"	M 75	40-52	47-60
KBA	7..	2 1/2"	M 75	45-60	54-70
KBA	8XS..	3"	M 90	40-52	47-60
KBA	8S..	3"	M 90	45-60	54-70
KBA	8..	3"	M 90	60-72	63-80
KBA	9S..	3 1/2"	-	45-60	54-70
KBA	9..	3 1/2"	-	60-72	63-80
KBA	10S..	-	M 110	45-60	54-70
KBA	10..	-	M 110	60-72	63-80

Note: Aluminum alloy available from M25x1.5 (1/2"NPT) up to M75x1.5 (2 1/2"NPT) sizes only.

Table 2:

KBATxxxxxxxx (Taurus)

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Cable glands		Thread size		Cable Dia. Ranges(mm)	
Type	Size	NPT	Metric pitch 1.5	Inner sheath	Armour sheath
KBAT	01L..	3/8"	M 16	6-11	8-15
KBAT	1..	1/2"	M 20	6-11	8-15
KBAT	1L..	1/2"	M 20	10-15,5	13,5-21
KBAT	2S..	3/4"	M 25	6-11	8-15
KBAT	2..	3/4"	M 25	10-15,5	13,5-21
KBAT	2L..	3/4"	M 25	13,5-20,5	18-27
KBAT	3..	1"	M 32	13,5-20,5	18-27
KBAT	3..	1"	M 32	18-27	23-33
KBAT	4..	1 1/4"	M 40	23-33	29-41
KBAT	5..	1 1/2"	M 50	29-41	35-48
KBAT	6..	2"	M 63	35-48	42-56

Table 3:

KBAxxxxxxxx-LSK-xx(Orion Lead Sheathed)					
Cable glands		Thread size		Cable Dia. Ranges(mm)	
Type	Size	NPT	Metric pitch 1.5	Inner sheath	Armour sheath
KBA-LSK	1S..	1/2"	M 20	3-8	6-12
KBA-LSK	1..	1/2"	M 20	6-11.5	8.5-16
KBA-LSK	1L..	1/2"	M 20	8.5-14	12-20
KBA-LSK	2XS..	3/4"	M 25	3-8	6-12
KBA-LSK	2S..	3/4"	M 25	6-11.5	8.5-16
KBA-LSK	2..	3/4"	M 25	8.5-15	12-21
KBA-LSK	2L..	3/4"	M 25	12-19	16-26
KBA-LSK	3XS..	1"	M 32	6-11.5	8.5-16
KBA-LSK	3S..	1"	M 32	12-19	16-26
KBA-LSK	3..	1"	M 32	15-25	20-33

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KBA-LSK	4XS..	1 ¼"	M 40	12-19	16-26
KBA-LSK	4S..	1 ¼"	M 40	15-25	20-33
KBA-LSK	4..	1 ¼"	M 40	20-31	29-41
KBA-LSK	5XS..	1 ½"	M 50	15-25	20-33
KBA-LSK	5X..	1 ½"	M 50	20-31	29-41
KBA-LSK	5S..	1 ½"	M 50	22-34	33-48
KBA-LSK	5..	1 ½"	M 50	27-40	36-52
KBA-LSK	6XS..	2"	M 63	22-34	33-48
KBA-LSK	6X..	2"	M 63	27-40	36-52
KBA-LSK	6S..	2"	M 63	35-44	43-57
KBA-LSK	6..	2"	M 63	40-50	47-60
KBA-LSK	6L..	2"	M 63	45-56	54-70
KBA-LSK	7XS..	2 ½"	M 75	35-44	43-57
KBA-LSK	7S..	2 ½"	M 75	40-50	47-60
KBA-LSK	7..	2 ½"	M 75	45-58	54-70
KBA-LSK	8XS..	3"	M 90	40-50	47-60
KBA-LSK	8S..	3"	M 90	45-68	54-70
KBA-LSK	8..	3"	M 90	60-70	63-80

Table 4

KBAxxxxxxxLTxxxxx, KBAUxxxxxxxLTxxxxx (Orion LT)						
Cable glands		Thread size			Cable Dia. Ranges(mm)	
Type	Size	NPT	Metric pitch 1.5	Metric pitch 2.0	Inner sheath	Armour sheath
KBAxxxxxxxLTxxxxx	1	1/2"	M 20	-	8.5-14.5	12-20
KBAxxxxxxxLTxxxxx	2X	3/4"	M 25	-	8.5-14.5	12-20
KBAxxxxxxxLTxxxxx	2	3/4"	M 25	-	8.5-16	12-21
KBAxxxxxxxLTxxxxx	3X	1"	M 32	-	8.5-16	12-21
KBAxxxxxxxLTxxxxx	9	3½"	-	M 90	70-82	78-90
KBAxxxxxxxLTxxxxx	10S	4"	-	M 100	80-92	88-100

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KBAxxxxxxxLTxxxxx	10	4"	-	M 110	90-101	98-110
KBAxxxxxxxLTxxxxx	11S	5"	-	M 130	100-115	109-123

Table 5

KBAOxxxxxxxLTxxxxx (Orion LT)					
Cable glands		Thread size		Cable Dia. Ranges(mm)	
Type	Size	NPT	Metric, pitch 1.5	Inner sheath	Armour sheath
KBAOxxxxxxxLTxxxxx	1	1/2"	M 20	8.5-14.5	12-20
KBAOxxxxxxxLTxxxxx	2X	3/4"	M 25	8.5-14.5	12-20
KBAOxxxxxxxLTxxxxx	2	3/4"	M 25	8.5-16	12-21
KBAOxxxxxxxLTxxxxx	3X	1"	M 32	8.5-16	12-21

The cable gland types, installation Group, manufacturer materials and ambient temperature ranges are reported in the table below:

Type	Group	Materials	Seals	Ambient Temp.
KBAxxxxxxxxxxx KBAxxxxxxxx-LSK-xx	Group IIC tb	Brass, Nickel plated brass, Stainless steel	Chloroprene	-40°C ~ +100°C
			Silicon	-60°C ~ +130°C
		Aluminum alloy	Chloroprene	-40°C ~ +80°C
			Silicon	-60°C ~ +80°C
		Galvanized steel	Chloroprene	-20°C ~ +100°C
			Silicon	-20°C ~ +130°C
KBUxxxxxxxxxxx,	Group IIC tb	Brass, Nickel plated brass, Stainless steel	Chloroprene	-40°C ~ +80°C
			Silicon	-60°C ~ +80°C
		Galvanized steel	All seals	-20°C ~ +80°C
MKBUxxxxxxxxxxx	Group IIC tb	Brass, Nickel plated brass, Stainless steel	Chloroprene	-40°C ~ +80°C
			Silicon	-60°C ~ +80°C
		Galvanized steel	All seals	-20°C ~ +80°C
KBAxxxxxxxLTxxxxx	Group IIC	Brass, Nickel plated brass,	Chloroprene	-40°C ~ +80°C

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KBATxxxxxxxxxx	tb	Stainless steel	Silicon	-60°C ~ +80°C
		Galvanized steel	All seals	-20°C ~ +80°C
	Group IIC tb	Brass, Nickel plated brass, Stainless steel	Chloroprene	-40°C ~ +80°C
			Silicon	-60°C ~ +100°C
		Galvanized steel	Chloroprene	-20°C ~ +80°C
			Silicon	-20°C ~ +100°C

Restricted use to the ambient temperature range of -50°C~+80°C for all types whit fiber flat washers.

- The Standard types KBAxxxxxxLTxxxx and the type KBATxxxxxxxxxx cable glands are suitable for steel wire armoured cables, while the type KBAxxxxxxxx-LSK-xx is suitable for lead sheathed armoured cables only.
- They are comprised of a male body, lower sealing ring, grounding cone, swivel braid retainer, middle body upper sealing ring and cap. For type KBAxxxxxxxx-LSK-xx only are used a further contact spring and a metal washer to grounding the lead sheath. When the middle body is screwed onto the male body the cable wire armour is clamped between the swivel braid retainer and the grounding cone and the lower sealing ring is compressed onto the inner sheath of the cable. Sealing of the cable outer sheath is facilitated by the upper sealing ring which is compressed onto the outer sheath when the cap is screwed onto the middle body.
- While all the cable glands types KBAxxxxxxxxxx, KBAxxxxxxxx-LSK-xx, KBATxxxxxxxxxx and KBAxxxxxxLTxxxx are for Group IIC and Group IIIC. The cable glands should be also used for intrinsically safe circuits Ex i and should have a part painted in light blue.
- The KBAxxxxxxxxxx cable glands series standard threads types are NPT from 1/4" up to 3 1/2" and cylindrical Metric from M12x1.5 up to M110x1.5.
- The KBAxxxxxxxx-LSK-xx cable glands series standard threads types are NPT

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from 1/2" up to 3" and cylindrical Metric from M20x1.5 up to M90x1.5.

- For KBAOxxxxxxLTxxxxx cable glands series standard threads types are cylindrical Metric from M20x1.5 up to M130x2 and tapered threads type NPT from 1/2" up to 5", while for KBAOxxxxxxLTxxxxx cable glands series standard threads types are cylindrical Metric from M20x1.5 up to M32x1.5 and tapered threads type NPT from 1/2" up to 1".
- For KBATxxxxxxxxxxx cable glands series standard threads types are cylindrical from M16x1.5 up to M63x1.5 and tapered threads type NPT from 3/8" up to 2".
- Alternative available cylindrical threads are type PG. Thread type PG can be used for "Ex eb" execution only.
- To guarantee the IP 66/68 degree of protection the cable glands types KBAxxxxxxxxxxxx, KBAxxxxxxxxxx-LSK-xx, KBATxxxxxxxxxxxx and KBAxxxxxxLTxxxxx with cylindrical threads have a sealing edge machined for fitting an O-ring, alternatively it is available a flat washer, while for all other threads the IP 66/68 degree of protection is achieved with sealant put at least on two complete threads engaged of the threaded coupling.
- In addition, the cable glands can be supplied with an anti-tearing nut, only if specifically required by the purchaser.

Ingress protection: IP 66 / IP 68 (50 m for 30 min.)

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:

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- The coupling of the cable glands with the enclosures shall be made as indicated by the manufacturer in the documents annexed to this certificate in order to respect the type of protection of the electrical apparatus on which cable glands are mounted.
 - The cable glands shall be mounted at the electrical apparatus in such a way that accidental rotation and loosening will be prevented.
 - The KBAxxxxxxxx-LSK-xx cable glands types M20x1.5 sizes with clamping range Ø3.0~8.5 are admitted for Group II applications only.
 - The KBATxxxxxxxx cable glands type are only suitable for fixed installations. The cables must be effectively clamped to prevent pulling and twisting.
 - The cable glands shall be installed in such a way that the temperature at the mounting point will remain within the service temperature ranges accordingly to the marking.
 - The degree of protection IP 66/68 will be guaranteed for the cable glands if the holes into which cable glands are mounted are suitably sealed. To this scope the correct positioning of the gaskets (for cylindrical threads) or the application of sealant on the threads (for tapered threads), shall be done as indicated in the manufacturer instruction.
 - See instruction for other information.
3. Certificate related report(s):
- Type test report: CQST2105C108, CQST2105C108/01
 - Factory inspection report: CN2021Q010125
4. Certificate change information:
- 1st change on April 22, 2023: Updated the standards for certification.

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