bimed
TEKNİK ALETLER SANAYİ VE TİCARET A.Ş.
S.S. Bakır ve Pirinç Sanayi Sitesi Leylak Cad.
No:16 34524 Beylikdüzü İSTANBUL TÜRKİYE
Tel: +90.212.8757376 Fax: +90.212.8757052
Url: www.bimedteknik.com E-mail: info@bimedteknik.com

SAFETY, MAINTENANCE AND MOUNTING INSTRUCTIONS

CESI 13 ATEX 033X IECEx CES 13.0013X

GLANDS TYPES

KBA (U,O) (ORION)
KBA..LT (U,O)(ORION LT)

KBU (CRATER)
MKBU (M-CRATER)

CONTENTS

1 MARKINGS

BMD KBA..	GROUP I	CE 0722 Ex	I M2 Ex db I Mb Ex eb I Mb IP66/68 Ta -40°C to +100°C CESI 13 ATEX 033X IECEx CES 13.0013X
	GROUP II	CE 0722 Ex	II 2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db Ta-60°C +130°C IP66/68 CESI 13 ATEX 033X IECExCES 13.0013X
BMD KBA..LT..	GROUP II	CE 0722 Ex	II 2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db Ta-60°C +130°C IP66/68 CESI 13 ATEX 033X IECEx CES 13.0013X
BMD KBU..	GROUP II	CE 0722 Ex	II 2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db Ta-60°C +130°C IP66/68 CESI 13 ATEX 033X IECExCES 13.0013X
M KBU...	GROUP I	CE 0722 Ex	I M2 Ex db I Mb Ex eb I Mb IP66/68 Ta -40°C to +100°C CESI 13 ATEX 033X IECEx CES 13.0013X

APPLICABLE STANDARDS

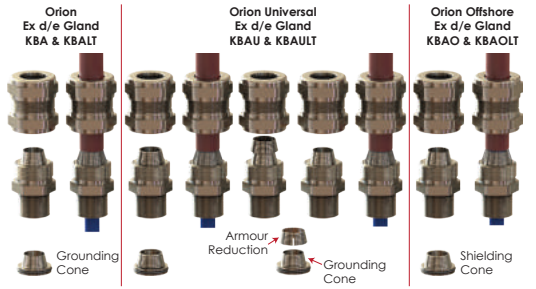
DIRECTIVE 2014/34/EU	EN/IEC 60079-7
EN/IEC 60079-0	EN/IEC 60079-31
EN/IEC 60079-1	EN/IEC 60529

2 TECHNICAL SPECIFICATION TABLE

Types	Sizes		Group		Body Material		Temperature1	
	from	to	Group I	Group II Group III	Brass Stainless Steel Galvanised Steel	Aluminium	Chloroprene	Silicone2
KBA	M12	M110	NO	YES	YES	NO	-40°C to +100°C	-60°C to +130°C
	M20	M90	YES	NO	YES	NO	-40°C to +80°C	-60°C to +80°C
	M25	M75	NO	YES	NO	YES	-40°C to +80°C	-60°C to +80°C
KBAO	M12	M110	NO	YES	YES	NO	-40°C to +100°C	-60°C to +130°C
	M25	M75	NO	YES	NO	YES	-40°C to +80°C	-60°C to +80°C
KBAU	M12	M110	NO	YES	YES	NO	-40°C to +100°C	-60°C to +130°C
	M25	M75	NO	YES	NO	YES	-40°C to +80°C	-60°C to +80°C
KBU	M16	M90	NO	YES	YES	NO	40°C to +100°C	-60°C to +130°C
MKBU	M20	M90	YES	YES	YES	NO	-40°C to +80°C	-60°C to +80°C
	M16	M90	NO	YES	YES	NO	-40°C to +80°C	-60°C to +80°C
KBAT	M16	M63	NO	YES	YES	NO	-40°C to +80°C	-60°C to +100°C
KBALT	M20	M130	YES	YES	YES	NO	-40°C to +80°C	-60°C to +80°C
KBAOLT	M20	M32	NO	YES	YES	NO	-40°C to +80°C	-60°C to +80°C
KBAULT	M20	M130	NO	YES	YES	NO	-40°C to +80°C	-60°C to +80°C

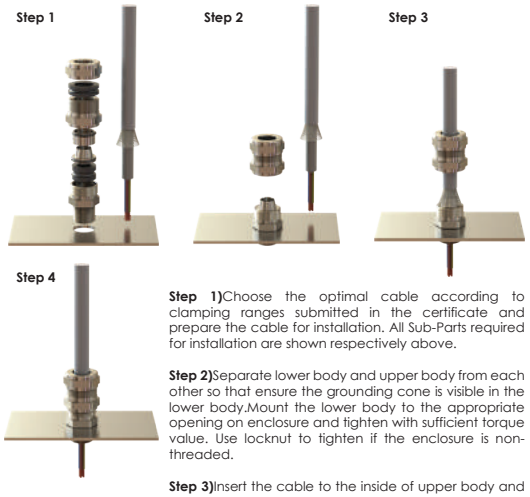
1.Cable glands made of galvanized steel can be used up to -20°C.
2.Min. temperature is limited by-50°C when the gland is used with fiber washer.

PRODUCTS PARTS



Rev. 04

3 Mounting Instruction KBA



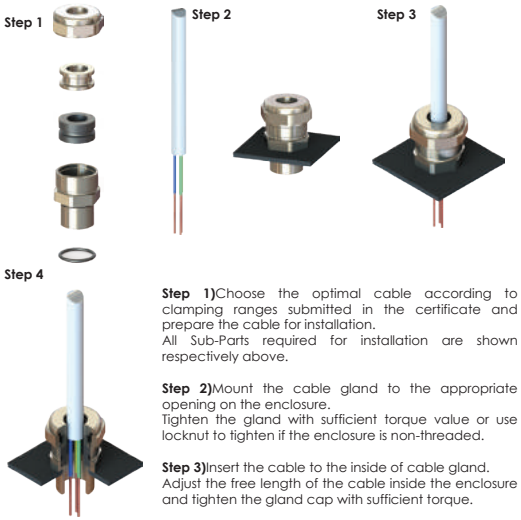
Step 1) Choose the optimal cable according to clamping ranges submitted in the certificate and prepare the cable for installation. All Sub-Parts required for installation are shown respectively above.

Step 2) Separate lower body and upper body from each other so that ensure the grounding cone is visible in the lower body.Mount the lower body to the appropriate opening on enclosure and tighten with sufficient torque value. Use locknut to tighten if the enclosure is non-threaded.

Step 3) Insert the cable to the inside of upper body and then mount with lower body as shown. Ensure that Armours of the cable remains above the grounding cone.

Step 4) Tighten the upper body with sufficient torque value . For torque values please refer the tables "Sizes and torque of cable glands".Visually check if armour is securely clamped. If not, repeat the clamping process.

4 Mounting Instruction KBU and MKBU



Step 1) Choose the optimal cable according to clamping ranges submitted in the certificate and prepare the cable for installation.
All Sub-Parts required for installation are shown respectively above.

Step 2) Mount the cable gland to the appropriate opening on the enclosure.
Tighten the gland with sufficient torque value or use locknut to tighten if the enclosure is non-threaded.

Step 3) Insert the cable to the inside of cable gland.
Adjust the free length of the cable inside the enclosure and tighten the gland cap with sufficient torque.

5 IP PROTECTION for NON-THREADED HOLES

Recomended Hole Diameters For Non Threaded enclosure applications in relation with the used thread types are shown below.

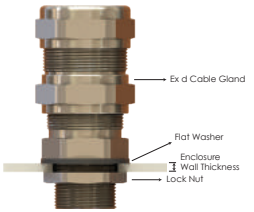
-For non-threaded enclosures it is recomended to use flat washer,between the gland body and enclosure.
-The recomended wall thickness is 1,5 mm for non threaded enclosures.
-In case of enclosure wall thickness is equal or lower than 1,5 mm, Bimed flat washer should be used. Oring can stay in the channel if it is necessary. During the assembly it is recommended to rotate the locknut. If the assembly needs to be done by rotating the gland, then oring should be preferred.

Metric Threads		G Threads (GAS UNI ISO 228/1)		PG Threads	
Thread	Hole Diameter (min. - max. mm)	Thread	Hole Diameter (min. - max. mm)	Thread	Hole Diameter (min. - max. mm)
M8x1.25	8,0-8,2	G 1/4"	13,2-13,4	PG 7	12,5-12,7
M12x1.5	12,0-12,2	G 3/8"	16,6-16,8	PG 9	15,2-15,4
M16x1.5	16,0-16,2	G 1/2"	21,0-21,2	PG 11	18,6-18,8
M20x1.5	20,0-20,2	G 3/4"	26,4-26,6	PG 13,5	20,4-20,6
M25x1.5	25,0-25,2	G 1"	33,3-33,6	PG 16	22,5-22,7
M32x1.5	32,0-32,3	G 1 1/4"	41,9-42,2	PG 21	28,3-28,5
M40x1.5	40,0-40,3	G 1 1/2"	47,8-48,1	PG 29	37,0-37,3
M50x1.5	50,0-50,3	G 2"	59,6-59,9	PG 36	47,0-47,3
M63x1.5	63,0-63,3	G 2 1/2"	75,2-75,5	PG 42	54,0-54,3
M75x1.5	75,0-75,3	G 3"	87,9-88,2	PG 48	59,3-59,6
M90x1.5	90,0-90,3	G 4"	113,1-113,4		
M100x1.5	100,0-100,3	G 5"	138,5-138,8		
M110x1.5	110,0-110,3				
M115x2.0	115,0-115,3				
M130x2.0	130,0-130,3				

6 IP PROTECTION for THREADED HOLES

Ingress Protection: In order to guarantee the specified IP66/68 rating, sealant agent shall be applied on at least two full threads before fitting the gland to the box. In any case you must pay attention to guarantee the metallic continuity. For threaded enclosures min. wall thickness must be equal to the thickness of the relevant locknut.

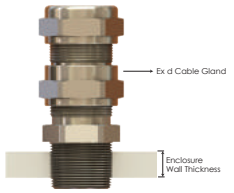
IP Protection for Cylindrical Threaded Joints



Ex d Execution:
-Assemble the gland with o-ring or flat washer through the threaded hole.
-The wall has to be thick enough to engage at least 5 full threads.
-The minimum engaged thread depth must be at least 8 mm.

Ex e & Ex tb Execution:

-Assemble the gland with o-ring or flat washer through the threaded hole.
-You have to respect the minimum wall thickness of 1,5 mm.



IP Protection for Tapered Threaded Joints

Ex d Execution:
-The wall has to be thick enough to engage at least 5 full threads.

Ex e & Ex tb Execution:
-For Ex eb applications please refer to NPT ANSI B1.20.1 standart.

NPT"	Minimum Engaged Thread Depth	
	mm	inch
1/4	7,055	0,277
3/8	7,055	0,277
1/2	9,070	0,357
3/4	9,070	0,357
1	11,045	0,434
1 1/4	11,045	0,434
1 1/2	11,045	0,434
2	11,045	0,434
2 1/2	15,875	0,625
3	15,875	0,625
4	15,875	0,625
5	15,875	0,625

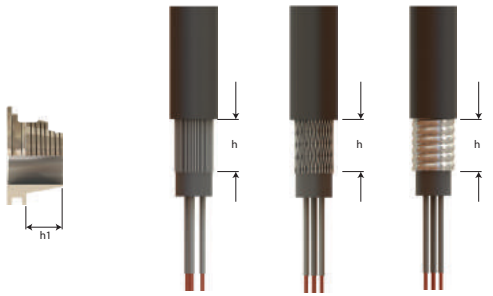
7 SAFETY INSTRUCTION

-Qualified personnel in compliance with the national laws shall carry out the maintanence in accordance with EN/IEC 60079-17 and installation in accordance with EN/IEC 60079-14.
-Changes to products are not allowed.
-Only Bimed spare parts must be used.
-The maintenance operations must be carried out only after the engine has been cut off from mains or from the related electrical appliance.
-The following instructions must be strictly followed in order to get a correct installation.
-The national safety rules and accident prevention regulations, must be strictly respected.
-The clamping of the cables must be realised outside of enclosure by appropriate toque values to guarantee the mechanical characteristics.
-The cable glands can be used with Ex i circuits.
-The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
-The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
-Cable gland installation shall be done taking into account the temperature range declared for cable glands in relation to protection mode execution, versus the ambient temperature proper of installation.
-The certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in the first page of the manuel.
-The certificate does not cover hazards coming from environmental conditions different from those clearly and precisely indicated in clause 1 of EN 60079-0.
-Service temperature of the gland is related to the material of the sealing ring but can additionally be limited by the material of the flat washer/oring/accessories.

8 PREPERATION OF CABLES

-Please refer to the figure below, for details about the preperation of steel wire armour, braided and metal tape shielded cables for fitting into the cable gland.

Composition of armour - h min. = height (h1) of armour tightening cone + 2 mm max.



9 ORION (KBA) SIZE TABLE

Size	Clamping Range Ø min-max Lower Seal mm	Clamping Range Ø min-max Upper Seal mm	Armor Wire Ø min-max mm	Upper Body Tightening Torques [Nm]	Cap Tightening Torques [Nm]	Part Number
M12x1.5	2,0-4,0	3,0-5,5	0,10-0,40	13	13	*KBA0SM
	3,0-7,5	6,0-12,0	0,70-1,20	27	25	*KBA0SLM
M16x1.5	3,0-8,5	6,0-12,0	0,70-1,20	27	25	*KBA01SM
	6,0-12,0	8,5-16,0	0,70-1,25	49	28	*KBA01M
M20x1.5	3,0-8,5	6,0-12,0	0,70-1,20	27	25	KBA1SM
	6,0-12,0	8,5-16,0	0,70-1,25	49	28	KBA1M
	8,5-14,5	12,0-20,0	0,90-1,30	33	33	KBA1LM
M25x1.5	3,0-8,5	6,0-12,0	0,70-1,20	27	25	KBA2XSM
	6,0-12,0	8,5-16,0	0,70-1,25	49	28	KBA2SM
	8,5-16,0	12,0-21,0	0,70-1,20	33	33	KBA2M
	12,0-20,0	16,0-26,0	1,30-1,70	61	32	KBA2LM
M32x1.5	6,0-12,0	8,5-16,0	0,70-1,25	49	28	KBA3XSM
	12,0-20,0	16,0-26,0	1,30-1,70	61	32	KBA3SM
	15,0-26,0	20,0-33,0	1,20-1,80	86	40	KBA3M
M40x1.5	12,0-20,0	16,0-26,0	1,30-1,70	61	32	KBA4XSM
	15,0-26,0	20,0-33,0	1,20-1,80	86	40	KBA4SM
	20,0-32,0	29,0-41,0	1,60-2,20	110	75	KBA4M
M50x1.5	15,0-26,0	20,0-33,0	1,20-1,80	86	40	KBA5XSM
	20,0-32,0	29,0-41,0	1,60-2,20	110	75	KBA5XMM
	22,0-35,0	33,0-48,0	2,00-2,80	110	75	KBA5SM
	27,0-41,0	36,0-52,0	1,80-2,80	125	75	KBA5M
M63x1.5	22,0-35,0	33,0-48,0	2,00-2,80	110	75	KBA6XSM
	27,0-41,0	36,0-52,0	1,80-2,80	125	75	KBA6XMM
	35,0-45,0	43,0-57,0	1,80-2,80	160	140	KBA6SM
	40,0-52,0	47,0-60,0	1,80-2,80	250	100	KBA6M
	45,0-56,0	54,0-70,0	1,30-2,50	250	150	KBA6LM
M75x1.5	35,0-45,0	43,0-57,0	1,80-2,80	160	140	KBA7XSM
	40,0-52,0	47,0-60,0	1,80-2,80	250	100	KBA7SM
	45,0-60,0	54,0-70,0	1,00-2,30	250	150	KBA7M
M90x1.5	40,0-52,0	47,0-60,0	1,80-2,80	250	100	*KBA8XSM
	45,0-60,0	54,0-70,0	1,00-2,30	250	150	*KBA8SM
	60,0-72,0	63,0-80,0	1,00-3,50	320	210	*KBA8M
M110x1.5	45,0-60,0	54,0-70,0	1,00-2,30	250	150	*KBA10SM
	60,0-72,0	63,0-80,0	1,00-3,50	320	210	*KBA10M

* These sizes are only available as GroupII-III

Size	Clamping Range Ø min-max Lower Seal mm	Clamping Range Ø min-max Upper Seal mm	Armor Wire Ø min-max mm	Upper Body Tightening Torques [Nm]	Cap Tightening Torques [Nm]	Part Number
M20x1,5	8,5-14,5	12,0-20,0	1,0-1,2	33	33	KBA1MLT
M25x1,5	8,5-14,5	12,0-20,0	1,0-1,2	33	33	KBA2XMMLT
	8,5-16,0	12,0-21,0	0,7-0,9	30	27	KBA2MLT
M32x1,5	8,5-16,0	12,0-21,0	0,7-0,9	30	27	KBA3XMMLT
M90x2,0	70,0-82,0	78,0-90,0	1,5-4,4	450	280	KBA8LMLT
M100x2,0	80,0-92,0	88,0-100,0	1,2-4,0	470	390	KBA9SMLT
M110x2,0	90,0-101,0	98,0-110,0	2,1-5,4	500	400	KBA10LMLT
M130x2,0	100,0-115,0	109,0-123,0	2,0-5,4	550	450	KBA13MLT

Note: These torque values are recommended according to the tests performed in Bimed laboratory.

10 ORION OFFSHORE (KBAO) SIZE TABLE

Size	Clamping Range Ø min-max Lower Seal mm	Clamping Range Ø min-max Upper Seal mm	Shielded Wire Ø min-max mm	Upper Body Tightening Torques [Nm]	Cap Tightening Torques [Nm]	Part Number
M12x1.5	3,0-7,5	6,0-12,0	0,20-0,50	27	25	*KBAO0SLM
M16x1.5	3,0-8,5	6,0-12,0	0,20-0,50	27	25	*KBAO01SM
	6,0-12,0	8,5-16,0	0,20-0,50	49	28	*KBAO01M
M20x1.5	3,0-8,5	6,0-12,0	0,20-0,50	27	25	KBAO1SM
	6,0-12,0	8,5-16,0	0,20-0,50	49	28	KBAO1M
	8,5-14,5	12,0-20,0	0,20-0,50	33	33	KBAO1LM
M25x1.5	3,0-8,5	6,0-12,0	0,20-0,50	27	25	KBAO2XSM
	6,0-12,0	8,5-16,0	0,20-0,50	49	28	KBAO2SM
	8,5-16,0	12,0-21,0	0,20-0,40	33	33	KBAO2M
	12,0-20,0	16,0-26,0	0,20-0,50	61	32	KBAO2LM
M32x1.5	6,0-12,0	8,5-16,0	0,20-0,50	49	28	KBAO3XSM
	12,0-20,0	16,0-26,0	0,20-0,50	61	32	KBAO3SM
	15,0-26,0	20,0-33,0	0,30-0,80	86	40	KBAO3M
M40x1.5	12,0-20,0	16,0-26,0	0,20-0,50	61	32	KBAO4XSM
	15,0-26,0	20,0-33,0	0,30-0,80	86	40	KBAO4SM
	20,0-32,0	29,0-41,0	0,15-0,75	110	75	KBAO4M
M50x1.5	15,0-26,0	20,0-33,0	0,30-0,80	86	40	KBAO5XSM
	20,0-32,0	29,0-41,0	0,15-0,75	110	75	KBAO5XMM
	22,0-35,0	33,0-48,0	0,25-0,90	110	75	KBAO5SM
	27,0-41,0	36,0-52,0	0,25-1,30	125	75	KBAO5M
M63x1.5	22,0-35,0	33,0-48,0	0,25-0,90	110	75	KBAO6XSM
	27,0-41,0	36,0-52,0	0,25-1,30	125	75	KBAO6XMM
	35,0-45,0	43,0-57,0	0,40-1,10	160	140	KBAO6SM
	40,0-52,0	47,0-60,0	0,30-1,30	250	100	KBAO6M
	35,0-45,0	43,0-57,0	0,40-1,10	160	140	KBAO7XSM
M75x1.5	40,0-52,0	47,0-60,0	0,30-1,30	250	100	KBAO7SM
	45,0-60,0	54,0-70,0	0,30-1,40	250	150	KBAO7M
M90x1.5	40,0-52,0	47,0-60,0	0,30-1,30	250	100	*KBAO8XSM
	45,0-60,0	54,0-70,0	0,30-1,40	250	150	*KBAO8SM
	60,0-72,0	63,0-80,0	0,30-3,30	320	210	*KBAO8M
M110x1.5	45,0-60,0	54,0-70,0	0,30-1,40	250	150	*KBAO10SM
	60,0-72,0	63,0-80,0	0,30-3,30	320	210	*KBAO10M

* These sizes are only available as GroupII-III

Size	Clamping Range Ø min-max Lower Seal mm	Clamping Range Ø min-max Upper Seal mm	Armor Wire Ø min-max mm	Upper Body Tightening Torques [Nm]	Cap Tightening Torques [Nm]	Part Number
M20x1,5	8,5-14,5	12,0-20,0	0,20-0,50	33	33	KBAO1MLT
M25x1,5	8,5-14,5	12,0-20,0	0,20-0,50	33	33	KBAO2XMMLT
M25x1,5	8,5-16,0	12,0-21,0	0,45-0,65	30	27	KBAO2MLT
M32x1,5	8,5-16,0	12,0-21,0	0,45-0,65	30	27	KBAO3XMMLT

Note: These torque values are recommended according to the tests performed in Bimed laboratory.

11 ORION UNIVERSAL (KBAU) SIZE TABLE

Size	Clamping Range Ø min-max Lower Seal mm	Clamping Range Ø min-max Upper Seal mm	Armor Wire Ø min-max mm	Shielded Wire Ø min-max mm	Upper Body Tightening Torques [Nm]	Cap Tightening Torques [Nm]	Part Number
M12x1.5	3,0 - 7,5	6,0-12,0	0,70 - 1,20	0,2 - 0,5	27	25	*KBAU0SLM
M16x1.5	3,0 - 8,5	6,0-12,0	0,70-1,20	0,2-0,5	27	25	*KBAU01SM
	6,0 - 12,0	8,5-16,0	0,70-1,25	0,2-0,5	49	28	*KBAU01M
M20x1.5	3,0 - 8,5	6,0-12,0	0,70-1,20	0,2-0,5	27	25	KBAU1SM
	6,0-12,0	8,5-16,0	0,70-1,25	0,2-0,5	49	28	KBAU1M
	8,5-14,5	19,0-20,0	0,90-1,30	0,2-0,5	33	33	KBAU1LM
M25x1.5	3,0-8,5	6,0-12,0	0,70-1,20	0,2-0,5	27	25	KBAU2XSM
	6,0-12,0	8,5-16,0	0,70-1,25	0,2-0,5	49	28	KBAU2SM
	8,5-16,0	12,0-21,0	0,70-1,20	0,5-0,7	33	33	KBAU2M
	12,0-20,0	16,0-26,0	1,30-1,70	0,2-0,5	61	32	KBAU2LM
M32x1.5	6,0-12,0	8,5-16,0	0,70-1,25	0,2-0,5	49	28	KBAU3XSM
	12,0-20,0	16,0-26,0	1,30-1,70	0,2-0,5	61	32	KBAU3SM
	15,0-26,0	20,0-33,0	1,20-1,80	0,2-0,8	86	40	KBAU3M
M40x1.5	12,0-20,0	16,0-26,0	1,30-1,70	0,2-0,5	61	32	KBAU4XSM
	15,0-26,0	20,0-33,0	1,20-1,80	0,2-0,8	86	40	KBAU4SM
	20,0-32,0	29,0-41,0	1,60-2,20	0,2-0,8	110	75	KBAU4M
M50x1.5	15,0-26,0	20,0-33,0	1,20-1,80	0,2-0,8	86	40	KBAU5XSM
	20,0-32,0	29,0-41,0	1,60-2,20	0,2-0,8	110	75	KBAU5XMM
	22,0-35,0	33,0-48,0	2,00-2,80	0,2-1,0	110	75	KBAU5SM
	27,0-41,0	36,0-52,0	1,80-2,80	0,3-1,4	125	75	KBAU5M
M63x1.5	22,0-35,0	33,0-48,0	2,00-2,80	0,2-1,0	110	75	KBAU6XSM
	27,0-41,0	36,0-52,0	1,80-2,80	0,3-1,4	125	75	KBAU6XMM
	35,0-45,0	43,0-57,0	1,80-2,80	0,3-1,0	160	140	KBAU6SM
	40,0-52,0	47,0-60,0	1,80-2,80	0,6-1,5	250	100	KBAU6M
M75x1.5	35,0-45,0	43,0-57,0	1,80-2,80	0,3-1,0	160	140	KBAU7XSM
	40,0-52,0	47,0-60,0	1,80-2,80	0,6-1,5	250	100	KBAU7SM
	45,0-60,0	54,0-70,0	1,00-2,30	0,2-1,2	250	150	KBAU7M
M90x1.5	40,0-52,0	47,0-60,0	1,80-2,80	0,6-1,5	250	100	*KBAU8XSM
	45,0-60,0	54,0-70,0	1,00-2,30	0,2-1,2	250	150	*KBAU8SM
	60,0-72,0	63,0-80,0	1,00-3,50	0,2-1,9	320	210	*KBAU8M
M110x1.5	45,0-60,0	54,0-70,0	1,00-2,30	0,2-1,2	250	150	*KBAU10SM
	60,0-72,0	63,0-80,0	1,00-3,50	0,2-1,9	320	210	*KBAU10M

* These sizes are only available as GroupII-III

Size	Clamping Range Ø min-max Lower Seal mm	Clamping Range Ø min-max Upper Seal mm	Armor Wire Ø min-max mm	Shielded Wire Ø min-max mm	Upper Body Tightening Torques [Nm]	Cap Tightening Torques [Nm]	Part Number
M20x1,5	8,5-14,5	12,0-20,0	1,0-1,2	0,2-0,5	33	33	KBAU1MLT
M25x1,5	8,5-14,5	12,0-20,0	1,0-1,2	0,2-0,5	33	33	KBAU2XMMLT
	8,5-16,0	12,0-21,0	0,7-0,9	0,5-0,7	30	27	KBAU2MLT
M32x1,5	8,5-16,0	12,0-21,0	0,7-0,9	0,5-0,7	30	27	KBAU3XMMLT
M90x2,0	70,0-82,0	78,0-90,0	1,5-4,4	0,2-2,4	330	280	KBAU8LMLT
M100x2,0	80,0-92,0	88,0-100,0	1,2-4,0	0,2-2,2	470	390	KBAU9SMLT
M110x2,0	90,0-101,0	98,0-110,0	2,1-5,4	0,2-3,1	500	400	KBAU10LMLT
M130x2,0	100,0-115,0	109,0-123,0	2,0-5,4	0,2-3,0	550	450	KBAU13MLT

Note: These torque values are recommended according to the tests performed in Bimed laboratory.

12 CRATER (KBU) SIZE TABLE

Size	Clamping Range Ø min-max mm	Cap Tightening Torques [Nm]	Part Number
M16x1.5	3,0-8,5	30	KBU01M
	6,0-12,0	35	KBU01LM
M20x1.5	6,0-12,0	35	KBU1M
	12,0-14,5	33	KBU1LM
M25x1.5	6,0-12,0	35	KBU2SM
	12,0-16,0	30	KBU2M
	12,0-20,0	61	KBU2LM
M32x1.5	12,0-20,0	61	KBU3SM
	15,0-26,0	86	KBU3M
M40x1.5	15,0-26,0	86	KBU4SM
	20,0-32,0	110	KBU4M
M50x1.5	22,0-35,0	110	KBU5SM
	27,0-41,0	125	KBU5M
M63x1.5	35,0-45,0	165	KBU6SM
	40,0-52,0	250	KBU6M
M75x1.5	40,0-52,0	250	KBU7SM
	45,0-60,0	250	KBU7M
M90x1.5	45,0-60,0	250	KBU8SM
	60,0-72,0	300	KBU8M

Note: These torque values are recommended according to the tests performed in Bimed laboratory.

13 CRATER (MKBU) SIZE TABLE

Size	Clamping Range Ø min-max mm	Cap Tightening Torques [Nm]	Part Number
M16x1,5	3,0-8,5	31	MKBU01M2
	6,0-9,0	50	MKBU01LM1
	9,0-12,0	50	MKBU01LM2
M20x1,5	6,0-9,0	35	MKBU1M1
	9,0-12,0	35	MKBU1M2
	8,5-11,5	35	MKBU1LM1
	11,5-14,5	35	MKBU1LM2
M25x1,5	6,0-9,0	50	MKBU2SM1
	9,0-12,0	51	MKBU2SM2
	8,5-12,5	51	MKBU2M1
	12,5-16,0	50	MKBU2M2
	12,0-16,0	51	MKBU2LM1
	16,0-20,0	50	MKBU2LM2
M32x1,5	12,0-16,0	100	MKBU3SM1
	16,0-20,0	100	MKBU3SM2
	15,0-20,0	100	MKBU3M1
	20,0-26,0	100	MKBU3M2
M40x1,5	15,0-20,0	110	MKBU4SM1
	20,0-26,0	110	MKBU4SM2
	20,0-26,0	110	MKBU4M1
	26,0-32,0	110	MKBU4M2
M50x1,5	22,0-28,0	130	MKBU5SM1
	28,0-35,0	130	MKBU5SM2
	27,0-34,0	130	MKBU5M1
	34,0-41,0	130	MKBU5M2
M63x1,5	35,0-40,0	200	MKBU6SM1
	40,0-45,0	200	MKBU6SM2
	40,0-46,0	200	MKBU6M1
	46,0-52,0	200	MKBU6M2
M75x1,5	40,0-46,0	300	MKBU7SM1
	46,0-52,0	300	MKBU7SM2
	45,0-52,0	300	MKBU7M1
	52,0-60,0	300	MKBU7M2
M90x1,5	45,0-52,0	350	MKBU8SM1
	52,0-60,0	350	MKBU8SM2
	60,0-66,0	350	MKBU8M1
	66,0-72,0	350	MKBU8M2

Note: These torque values are recommended according to the tests performed in Bimed laboratory.

14 EU DECLARATION OF CONFORMITY

EU DECLARATION OF CONFORMITY

bimed

Bimed Teknik Aletler San. ve Tic. A.Ş.
S.S. Bakır Pirinç Sanayi Sitesi Leylak Cad. No:16 34524 Beylikdüzü/ İstanbul TURKEY
Tel. +90 212 8757376 Fax. +90 212 8750823

declares that the products designed to be placed on the market for use in the explosive atmospheres described below are in conformity with the listed EU Directive and harmonized standards.

Cable Gland Types;	KBA, KBAU, KBAO, KBA..LT, KBAO..LT, KBU, MKBU, KBAT
Certificate Number;	CESI 13 ATEX 033X
Protection Type;	II 2 GD; Ex db IIC Gb; Ex eb IIC Gb ; Ex tb IIIC Db IP66/68

Cable Gland Types;	KBA, KBA..LT, MKBU
Certificate Number;	CESI 13 ATEX 033X
Protection Type;	I M2 ; Ex db I Mb; Ex eb I Mb; Ex tb IIIC Db IP66/68

EU Directive;	ATEX 2014/34/EU
The harmonized standards applied;	EN 60079-0/A11: 2013 EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014

The compliance of the equipment is not influced by the modifications introduced by harmonized standard

EN IEC 60079-7:2015/A1:2018

EN IEC 60079-0:2018

Notified body CESI 0722

Istanbul, 15.04.2021

General Manager
Yakup Gülnihal

rev:08