IMQ 13 ATEX 018X / IECEx IMQ 13.0006X

GLAND TYPES FOR CIRCULAR CABLES





OCTANS-EBU

VFI A-FBS

GLAND TYPES FOR FLAT CABLES

OCTANS-EBU(axb)* VELA-EBS(axb)*

*Only for Ex eb / Ex tb execution.





Inner seal

Middle seal

Outer seal

Dome Plug

O-ring

OCTANS

Leylak Cad. No: 15 34520 Beylikdüzü İSTANBUL TÜRKİYE Tel: +90.212.8757376 Fax: +90.212.8757052
Url: www.bimedteknik.com E-mail: info@bimedteknik.com

Inner seal

Middle seal

Outer seal

Pressurering

Spring

- MARKINGS and APPLICABLE CODES
- **OCTANS & VELA PARTS**
- MOUNTING INSTRUCTION OCTANS (EBU)
- MOUNTING INSTRUCTION VELA (EBS)
- **SAFETY INSTRUCTION**
- **SAFETY INSTRUCTION (IP PROTECTION)**
- SAFETY INSTRUCTION (IP PROTECTION)
- **OCTANS (EBU) SIZE TABLE**
- **VELA (EBS) SIZE TABLE**
- DOME PLUG (BDPX) SIZE TABLE
- **EU DECLERATION OF CONFORMITY**

MARKINGS

BMD EBU	C€ 0722 🗟	II2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X /IECEx IMQ 13.0006X
BMD EBS	C€0722 ⓑ	II2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X /IECEx IMQ 13.0006X
BMD EBU(axb)	C€0722 ⓑ	II2GD Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X /IECEx IMQ 13.0006X
BMD EBS(axb)	C€0722 &	II2GD Ex eb IIC Gb Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X /IECEx IMQ 13.0006X

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

OPERATING TEMPERATURES

for Ex db, Ex eb, Ex tb execution,

supplied with Silicon sealing rings, O-rings or washers: Ta-60°C +80°C supplied with Chloroprene sealing rings, O-rings or washers: Ta -40°C +80°C for Ex eb. Ex tb execution.

supplied with Silicon sealing rings, O-rings or washers: Ta-60°C +140°C supplied with Chloroprene sealing rings, O-rings or washers: Ta -40°C +80°C

Mounting Instruction for VELA (EBS)

Choose the optimal seal (flat or round) according to

*Pressure ring and spring are inside part A.

combination

STEP-2:

the cable diameter, shape which is going to be tightened. (For triple seal combination ,it is enough to disassamble

For double E seal combination part B is an

obstacle to tighten the desired cablesize.

First take out partB to complete the seal

Rev. 08

OCTANS & VELA PARTS



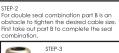








as A.B.C.D and E.



Mounting Instruction for OCTANS (EBU)

Hold the assembled gland straight and disassemble the parts

Assemble the seal combination inside part A. Mount (parts A,C,D) on the enclosure with sufficient torque value.

Then mount part A and E engaged one or two threads for inserting cabl inside the gland easier.





the parts as A.B.C.D and E.



Insert the cable inside the gland for installation. Place the armours inside the spring (G). Before the installation cut the excess parts of cable sheath and armour.







accordance with EN/IEC 60079-14.

installation.

respected.

-Changes to products are not allowed.

Only Bimed spare parts must be used.

-Qualified personnel in compliance with the nation laws shall carry out the

-Everyday and extraordinary maintenance operations must be carried out only

-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

-The national safety rules and accident prevention regulations, must be strictly

-In case of ambient temperature is below -30°C, austenitic steels must be used

The clamping of the cables must be realised outside of enclosure by

appropriate toque values to guarantee the mechanical characteristics.

-The cable glands are only suitable for fixed installations. Cables shall be

-The cable aland installation shall be done according to safety manufactures

-Cable gland installation shall be done taking into account the temperature

-When cable glands are installed with polyamide insert BDPX..., mechanical

risk have to taken into account, depending on cable gland and insert tap. The upper operating temperature is limited to 70oC. When insert tap is removed in

checked, in order to guarentee the correct tightness. If necessary, sealing rings

range declared for cable alands in relation to protection mode execution.

order to install to proper cable, the integrity of sealing rings have to be

Cable alands for non-circular cables shall be fitted with proper cables.

performance requirements other than those expressly included in the

-The certificate does not indicate compliance with electrical safety and

-The certificate does not cover hazards coming from environmental conditions different from those clearly and precisely indicated in clause 1 of EN 60079-0. -Flat washer material should be same material with the inner sealing of the

gland. Service temperature of the gland is related to the material of the sealing

suitable for sealing ring, according to manufacturer's instruction.

ring but can additionally be limited by the material of the flat

have to be replaced with new ones. Precautions shall be taken in order to

guarentee protection against risk of mechanical demage is provided, when

maintanence in accordance with EN/IEC 60079-17 and installation in

by qualified personnel after approval from expert technicians.

according to EN10213-3 (Brass or Stainless steel AISI 316).

The cable glands can be used with Ex i circuits.

effectively clamped to prevent pulling or twisting.

versus the ambient temperature proper of installation.

insert taps are suitable for low mechanical risk (4J) only.

Standards listed in the first page of the manuel.

washer/orina/accessories.

instructions to maintain degree of protection.



SAFETY INSTRUCTION (IP PROTECTION)

Ingress Protection: In order to guarantee the specified IP66/68 rating, sealant ager shall be applied on at least two full threads before fitting the aland 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

IP Protection for Cylindrical Threaded Joints



Ex d Execution: Assemble the gland with o-ring or flat washer through the threaded

-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 aland with o-ring or flat washer through the threaded

-You have to respect the minimum wall thickness of 1,5 mm

> Minimum Engaged Thread Depth

mm inch 0.277

7.055 0.277

15.875 0.625

5 15.875 0.625

IP Protection for Tapered Threaded Joints



9,070 9,070 0,357 1 1/4 11,045 0,434 11.045 2 11,045 0,434 15.875 15,875 0,625

-The wall has to be thick enough to engage at least 5 full

Ex e & Ex tb Execution:

-For Ex eb applications please refer to NPT ANSI B1.20.1 standart.

IP protection for Non Threaded enclosure applications

Me	Metric 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					

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

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. 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.

OCTANS (EBU) SIZE TABLE

Outer Thread	Clamping Range			Torque	Torque	Torque	Part Number
Size							
(Male)	\$1+\$2+\$3	S1+S2	S1	\$1+\$2+\$3	S1+S2	S1	
	min-max	min-max min-max					
	mm	mm	mm	Nm	Nm	Nm	
M12x1,5	4-6	6-8	-	20	18	-	EBUOSM
MIZXI,5	-	3-6	6-8	-	25	18	EBUOM
M16x1.5	-	3-6	6-9	-	28	18	EBU01SM
M16X1,5	4-6	6-9	9-12	20	18	15	EBU01M
	-	3-6	6-9	-	25	18	EBU1SM
M20x1,5	4-6	6-9	9-12	20	18	15	EBU1M
	10-12	12-14,5	14,5-16	22	20	18	EBU12M
	4-6	6-9	9-12	20	18	16	EBU2SM
M25x1,5	10-12	12-14,5	14,5-18	25	20	18	EBU2M
	14-17	17-20	-	25	20	-	EBU23M
	10-12	12-14,5	14,5-18	25	20	18	EBU3SM
M32x1,5	14-17	17-20	20-24	28	23	20	EBU3M
	22-24	24-27	27-28	34	34	34	EBU34M
	14-17	17-20	20-24	28	23	20	EBU4SM
M40x1,5	22-24	24-27	27-32	56	35	45	EBU4M
	26-28	28-31	31-34	56	54	50	EBU45M
	22-24	24-27	27-32	56	50	45	EBU5SM
M50x1,5	26-28	28-31	31-35	56	54	50	EBU5M
	35-38	38-41	41-44	130	125	120	EBU56M
	26-28	28-31	31-35	57	55	52	EBU6SM
M63x1,5	35-38	38-41	41-45	190	125	140	EBU6M
	46-48	48-52	52-56	130	125	120	EBU67M
	35-38	38-41	41-45	190	155	140	EBU7SM
M75x1,5	46-51	51-56	56-62	130	125	120	EBU7M
	60-65	65-69	-	120	115	-	EBU78M
	46-51	51-56	56-62	185	175	150	EBU8SM
M90x1,5	60-65	65-70	70-75	123	115	107	EBU8M
	75-78	78-81	81-82	130	125	120	EBU810M
11100-1 5	60-65	65-70	70-75	123	118		EBU10SM
M100x1,5	75-78	78-81	81-85	130	125	120	EBU10M
M110x1,5	85-88	88-91	91-95	155	160	170	EBU11
, -	75-78	78-81	81-85	135	130		EBU115XSM
M115x2,0	85-88	88-91	91-95	180	175	170	EBU115SM
,-	95-98	98-101	101-105	450	450		EBU115M
M130x2,0	105-108	108-111	111-115	526	500		EBU13M

VELA (EBS) SIZE TABLE

Outer Thread Size	Clai	Clamping Range		Torque			Part Number
(Male)	\$1+\$2+\$3	S1+S2	S1	S1+S2+S3	S1+S2	S1	
	min-max	min-max	min-max				
	mm	mm	mm	Nm	Nm	Nm	
441715	-	4-6	6-8	-	25	18	EBS01MS
M16x1,5	-	4-6	6-8	-	25	18	EBS01M
M20x1,5	4-6	6-9	9-12	20	18	15	EBS1M
M25x1,5	10-12	12-14,5	14,5-18	25	20	18	EBS2M
M32x1,5	14-17	17-20	20-24	25	20	18	EBS3M
M40x1,5	22-24	24-27	27-32	56	35	45	EBS4M
M50x1,5	26-28	28-31	31-35	56	54	50	EBS5M
M63x1,5	35-38	38-41	41-45	190	155	140	EBS6M
M75x1,5	46-51	51-56	56-62	185	175	150	EBS7M
M90x1,5	60-65	65-70	70-75	123	118	110	EBS8M
M100x1,5	75-78	78-81	81-85	130	125	120	EBS10M
M110x1,5	85-88	88-91	91-95	155	160	170	EBS11M

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

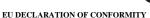
DOME PLUG (BDPX) SIZE TABLE

Size	Plug Ø P	Dome Ø D	Part Number
	mm	mm	
15	5.8	15.0	BDPX-15-21
22	11.8	21.5	BDPX-22-20
28	16.8	27.5	BDPX-28-21
36	23.8	36.0	BDPX-36-21
40	27.8	40.0	BDPX-40-21
50	37.8	50.0	BDPX-50-21
63	47.8	63.0	BDPX-63-21



EU DECLARATION OF CONFORMITY







S.S. Bakır Pirinc Sanavi Sitesi Levlak Cad. No.16 34524 Bevlikdüzü/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

Cable Gland Types: EBU, EBS, EBLS, EBLQ, EBMC, EBMS, EBLN

tion II 2GD Ex db IIC Gb Ex eb IIC Gb Ex db IIIC Db IP66/68 with certificate number, IMQ 13 ATEX 018X

Cable Gland Types: EBU(axb), EBS(axb), EBLS(axb), EBLQ(axb), EBMC(axb), EBMS(axb), EBLN(axb), NBU

are in execution II 2 GD Ex eb IIC Gb Ex th IIIC Db IP66/68 with certifican

number, IMO 13 ATEX 018X

FII Directive: ATEV 2014/24/EH

EN 60079-0-2018

EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014

EN IEC 60079-7:2015/A1:2018

Notified body CESI 0722

Istanbul, 15.04.2021



