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CABLE GLANDS TYPE EBU (OCTANS) AND EBS (VELA) SAFETY, MAINTENENCE AND MOUNTING INSTRUCTIONS

CERTIFICATE

BMD EB..... **C €** 0722 II2GD Ex d IIC Gb Ex e IIC Gb, Ex tb IIIC Db IP66/68 IMQ 13 ATEX 018X IECEX IMQ 13.0006X

APPLICABLE CODES

EN/IEC 60079-0 EN/IEC 60079-7 EN/IEC 60079-1 EN/IEC 60079-31 DIRECTIVE 94/9/CE ATEX

TEMPERATURE OF INSTALLATION

In execution Ex d, Ex e, Ex tb from -40°C to +80°C with Neoprene sealing ring from -60°C to +80°C with Silicon sealing ring

In execution Ex e, Ex tb from -40°C to +80°C with Neoprene sealing ring from -60°C to +140°C with Silicon sealing ring

SAFETY AND ASSEMBLING INSTRUCTIONS /



- They are destined to qualified personnel in compliance with the national laws and where applicable, in accordance with EN 60079-17 Standard, concerning electrical appliances to products are not allowed.
- Changes to products are not allowed.
- Only BIMED spare parts must be used.
- Everyday and extraordinary maintenance operations must be carried out only by qualified personnel after approval from expert technicians.
- The maintenance operations must be carried out only after the engine has been cut of 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, specified as \bigwedge in this technical booklet, must be strictly respected. - In case of ambient temperature below -30°C, must be used austenitic steels according to EN10213-3 (Brass or Stainless steel AISI 316).
- The clamping cables must be realised on external of enclosure by appropriate clamps to guarantee the mechanical characteristics.
- The cable glands can be used with circuits Ex i.
- 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 maintaindegree 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.

Non Threaded enclosure applications (Except for Ex d enclosures)

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

Metric Threads (EN 60423)		For for more detailed
Thread	Hole Diameter (min max. mm)	information please ref
		For non-threaded encl
M16 x 1.5	Ø16,0 - 16,3	case of enclosure wall
M20 x 1.5	Ø20,0 - 20,3	
M25 x 1.5	Ø25,0 - 25,3	lower than 3,0 mm, Bi
M32 x 1.5	Ø32,0 - 32,3	washer should be used
M40 x 1.5	Ø40,0 - 40,3	stay in the channel if it
M50 x 1.5	Ø50,0 - 50,3	,
M63 x 1.5	Ø63,0 - 63,3	to mount flat washer.
M75 x 1.5	Ø75,0 - 75,3	material should be san
M90 x 1.5	Ø90,0 - 90,3	with the inner seeling

Diameter max. mm)	information please refer to CA4-IP.
	For non-threaded enclosures, in
16,0 - 16,3	case of enclosure wall thickness is
20,0 - 20,3	
25,0 - 25,3	lower than 3,0 mm, Bimed flat
32,0 - 32,3	washer should be used. Oring can
10,0 - 40,3	stay in the channel if it is necessary
50,0 - 50,3	
53,0 - 63,3	to mount flat washer. Flat washer
75,0 - 75,3	material should be same material
90,0 - 90,3	
· · · · · · · · · · · · · · · · · · ·	with the inner sealing of the gland.

G Threads (GAS UNI ISO 228/1)		As an addition to Chloroprene and	
Thread	Hole Diameter (min max. mm)	Silicone; EPDM, Klingersil (fiber type) PA flat washers can also be used. Service temperature of the	
G 3/8"	Ø16,6 - 16,9	gland is related to the material of	
G 1/2"	Ø21,0 - 21,3	the sealing ring but can additionally	
G 3/4"	Ø26,4 - 26,7	be limited by the material of the	
G 1"	Ø33,3 - 33,6		
G 1 1/4"	Ø41,9 - 42,2	flat washer/oring/accessories.	
G 1 1/2"	Ø47,8 - 48,1	Material temperature limitations as	
G 2"	Ø59,6 - 59,9	•	
G 2 1/2"	Ø75,2 - 75,5	Chloroprene (-40°C +100°C	
G 3"	Ø87,9 - 88,2	Silicone (-60°C +180°C	

	(min max. mm)	used. Service temperature of the		
G 3/8"	Ø16,6 - 16,9	gland is related to the materia	al of	
G 1/2"	Ø21,0 - 21,3	the sealing ring but can additi	onally	
G 3/4"	Ø26,4 - 26,7	be limited by the material of		
G 1"	Ø33,3 - 33,6			
G 1 1/4"	Ø41,9 - 42,2	flat washer/oring/accessories		
G 1 1/2"	Ø47,8 - 48,1	Material temperature limitati	ons ar	
G 2"	Ø59,6 - 59,9			
G 2 1/2"	Ø75,2 - 75,5	Chloroprene (-40°C +		
G 3"	Ø87,9 - 88,2	Silicone (-60°C +	180°C	
		FPDM (-40°C +	110°C	

Thread	Hole Diameter (min max. mm)	
PG 9	Ø15,2 - 15,5	ŀ
PG 11	Ø18.6 - 18.9	L
PG 13,5	Ø20,4 - 20,8	l
PG 16	Ø22,5 - 22,8	L
PG 21	Ø28,3 - 28,6	L
PG 29	Ø37,0 - 37,3	L
PG 36	Ø47,0 - 47,3	L
PG 42	Ø54,0 - 54,3	ı
PG 48	Ø59,3 - 59,6	L

PG Threads (DIN 40430)

The use of these materials has to be taken in account in determination of upper and lower service temperature of the glands.

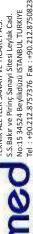
Klingersil (fiber type) (-50°C +130°C)

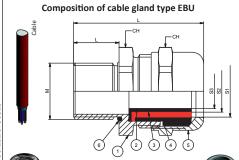
(-50°C +60°C)

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.

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OCTANS (EBU) CABLE GLAND MOUNTING INSTRUCTION SEALING RING COMBINATIONS STEP-2



Combination

Combination

STEP-1









3- For





2- Choose the optimal seal combination according to the cable diameter which is going to be tightened. (For triple seal

1- Hold the assembled

disassemble the parts

gland straight and

combination it is enough to disassamble only

part E.)

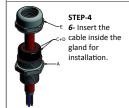


STEP-3

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



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



GLAND



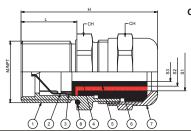
STEP-5 7- Tighten

part E to parts A,C,D sufficeint torque values.

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Composition of cable gland type EBS

8	O-RING
7	CAP (E)
6	OUTER SEAL (D)
5	INNER SEAL (C)
4	INNER SEAL (B)
3	PRESSURE RING (F)
2	SPRING (G)
1	BODY (A)







STEP-5:

8- Tighten



Single Seal Combination Combination

Assembled cable



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

only part E.)

**Pressure

ring and spring

are inside part A.)

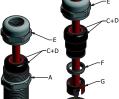


VELA (EBS) CABLE GLAND MOUNTING INSTRUCTION STEP-3:

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

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









STEP-4: 6- Insert the cable

inside the gland for installation

7- Place the armours inside the spring(G). Before the installation cut the excess parts of cable sheath and armour.



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EC DECLARATION OF CONFORMITY

We declare that the products designed to be placed on the market for use in the explosive atmospheres described below:

Cable glands type EBU, EBS, EBLS, EBLQ, EBMC, EBMS, EBLN;

In execution II 2GD Ex d IIC Gb; Ex e IIC Gb; Ex tb IIIC Db IP66/68 -40°C to +80°C with Neoprene (Chloroprene) sealing rings -60°C to +80°C with Silicon sealing rings

Cable glands type EBU, EBS, EBLS, EBLQ, EBMC, EBMS, EBLN, EBU(axb), EBS(axb), EBLS(axb), EBLQ(axb), EBMC(axb), EBMS(axb), EBLN(axb),

In execution II 2GD Ex e IIC Gb; Ex tb IIIC Db IP66/68 -40°C to +80°C with Neoprene (Chloroprene) sealing rings -60°C to +140°C with Silicon sealing rings

Certificate number: IMQ 13 ATEX 018X

Satisfy

The dispositions applied of them directive ATEX 94/9/EC

The harmonized standards applied:

EN 60079-0:2012; EN 60079-1:2007; EN 60079-7:2007; EN 60079-31:2014

These products has been designed, manufactured and controlled within the guidelines of a quality insurance system which is certificated to be conform with ISO 9001:2008 and EN ISO 80079-34:2011.

Notified body CESI 0722

Istanbul, 05-11-2015





			P
Tunn	M	ANSI ASME	Ø Sealing Ring
Type	ISO pitch 1,5	NPT B1.20.1	Dimension
			min-max
EBU	*0XSM (M8x1.25)		2,0-4,0
EBU	*0SM (M12)	*0SN(1/4")	4,0-8,0
EBU	01SM (M16)	01SN (3/8")	3,0-9,0
EBU	01M (M16)	01N (3/8")	4,0-12,0
EBU	1M (M20)	1N (1/2")	4,0-12,0
EBU	12M (M20)	12N (1/2")	10,0-16,0
EBU	2M (M25)	2N (3/4")	10,0-18,0
EBU	23M (M25)	23N (3/4")	14,0-20,0
EBU	3M (M32)	3N (1")	14,0-24,0
EBU	34M (M32)	34N (1")	22,0-28,0
EBU	4M (M40)	4N (11/4")	22,0-32,0
EBU	45M (M40)	45N (11/4")	26,0-34,0
EBU	5M (M50)	5N (11/2")	26,0-35,0
EBU	56M (M50)	56N (11/2")	35,0-44,0
EBU	6M (M63)	6N (2")	35,0-45,0
EBU	67M (M63)	67N (2")	46,0-56,0
EBU	7M (M75)	7N (21/2")	46,0-62,0
EBU	78M (M75)	78N (21/2")	60,0-70,0
EBU	8M (M90)	8N (3")	60,0-70,0
EBU	810M (M90)	810N (3")	75,0-85,0
EBU	10M (M100)	10N (4")	75,0-85,0
EBU	11M (M110)	11N (4")	85,0-95,0

			P
T	M	ANSI ASME NPT	Ø Sealing Ring
Type	ISO pitch 1,5	B1.20.1	Dimension
			min-max
EBS	1M (M20)	1N (1/2")	4,0-12,0
EBS	2M (M25)	12N (1/2")	10,0-18,0
EBS	3M (M32)	2N (3/4")	14,0-24,0
EBS	4M (M40)	23N (3/4")	22,0-32,0
EBS	5M (M50)	3N (1")	26,0-35,0
EBS	6M (M63)	34N (1")	35,0-45,0
EBS	7M (M75)	4N (11/4")	46,0-62,0
EBS	8M (M90)	45N (11/4")	60,0-75,0