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## SAFETY, MAINTENANCE AND MOUNTING INSTRUCTIONS

### LYRA

Polyamide Cable Glands for circular cables Type B...;

### DRACO

Polyamide Plug Type T...;

High Impact Plug Type HIT...;

### HI-LYRA

High Impact Polyamide Cable Glands for circular cables Type HIB...; HIB...(DS) for flat cables Type HIB...(axb)

### VEGA

High Impact Polyamide Cable Glands for circular cables Type EHB...; EHB...(DS)

### CETUS

High Impact Protection Tap BDPX...



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## 1

### MARKINGS

BMD BM...		0722 II2GD Ex eb IIC Gb Ex Ib IIIC Db IP66/68 IMQ 13 ATEX 010X / IECEx IMQ 13.0003X
BMD HBM...		0722 II2GD Ex eb IIC Gb Ex Ib IIIC Db IP66/68 IMQ 13 ATEX 010X / IECEx IMQ 13.0003X
BMD HBM...(DS)		0722 II2GD Ex eb IIC Gb Ex Ib IIIC Db IP66/68 IMQ 13 ATEX 010X / IECEx IMQ 13.0003X
BMD EHBM...		0722 II2GD Ex eb IIC Gb Ex Ib IIIC Db IP66/68 IMQ 13 ATEX 010X / IECEx IMQ 13.0003X
BMD EHBM...(DS)		0722 II2GD Ex eb IIC Gb Ex Ib IIIC Db IP66/68 IMQ 13 ATEX 010X / IECEx IMQ 13.0003X
BMD T...		0722 II2GD Ex eb IIC Gb Ex Ib IIIC Db IP66/68 IMQ 13 ATEX 010X / IECEx IMQ 13.0003X
BMD HIT...		0722 II2GD Ex eb IIC Gb Ex Ib IIIC Db IP66/68 IMQ 13 ATEX 010X / IECEx IMQ 13.0003X
BMD BDPX...		

### APPLICABLE CODES

DIRECTIVE 2014/34/EU	EN/IEC 60079-7
EN/IEC 60079-0	EN/IEC 60079-31
EN/IEC 60079-11	EN/IEC 60529

## 2

### CABLE GLANDS & PLUGS PARTS

Nr.	Items
1	Dust Plug
2	Dome Plug (thick)
3	Dome Plug (thin)
4	Lock Nut
5	Standard Seal
6	Double Seal
7	Washer
8	Cap
9	Cap (Blue Ex-i)
10	Body

Nr.	Items
1	Plug
2	Washer
3	Lock Nut
4	Lock Nut (Blue Ex-i)

Rev. 07

## 3 Mounting Instruction Glands



STEP1 Mount the cable gland to the appropriate opening on the enclosure.

STEP2 Tighten the gland or use locknut to tighten if the enclosure is non threaded.



STEP3 Lead the cable through the cable gland.

STEP4 Adjust the free length of the cable inside the enclosure and tighten the cap of the gland with sufficient torque.

## 4 Mounting Instruction Plugs

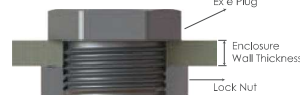
Case 1  
Blind plug is assembled with a washer and it is put through the enclosure's cutout. The blind plug is then fixed with the aid of a lock nut and appropriate torque value and hole is sealed.



Case 2  
The product can be assembled with a thicker and threaded enclosure without a problem.



Case 3  
When water tightness is not an issue, the product is put through the enclosure's cutout and the connection is maintained with a nut. This applies only non-threaded enclosures.



Case 4  
When water tightness is not an issue, the assembly is maintained without a washer provided that the thread form and enclosure thickness allow.



## 5 SAFETY INSTRUCTION (IP PROTECTION)

IP protection for Non Threaded enclosure applications (Ex e and Ex Ib Recommended Hole)

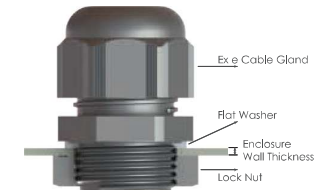
Metric Threads		G Threads (GAS UNI ISO 228/1)		PG Threads	
Thread	Hole Diameter (min. - max. mm)	Thread	Hole Diameter (min. - max. mm)	Thread	Hole Diameter (min. - max. mm)
M8x1.25	8.0-8.2	G 1/4"	13.2-13.4	PG 7	12.5-12.7
M12x1.5	12.0-12.2	G 3/8"	16.6-16.8	PG 9	15.2-15.4
M16x1.5	16.0-16.2	G 1/2"	21.0-21.2	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"	59.5-59.9	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
N75x1.5	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				

Recommended Hole Diameters For Non Threaded enclosure applications in relation with the used thread types are shown above. For for more detailed information please refer to CA4-IP.

Diameters For Non Threaded enclosure applications in relation with the used thread types are shown above. For for more detailed information please refer to CA4-IP. For non-threaded enclosures it is recommended to use flat washer between the gland body and enclosure. The recommended wall thickness is 1.5 mm for non threaded enclosures.

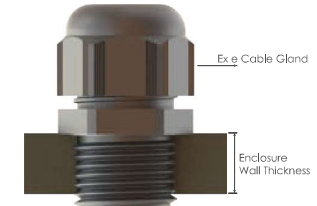
For non-threaded enclosures, in case of enclosure wall thickness is equal or lower than 1.5 mm, blind flat washer should be used. O-ring can stay in the channel if it is necessary. During the assembly it is recommended to rotate the locknut. If the assembly needs to be done by rotating the gland, then o-ring should be preferred.

## 6 SAFETY INSTRUCTION (IP PROTECTION)



IP protection for cylindrical threaded joint

Ex e :  
The recommended wall thickness is min 1.5mm for non threaded enclosures. For threaded enclosures it is recommended to engage 3 full threads, otherwise it is recommended to use locknut.



IP protection for tapered threaded joint

Ex e :  
For NPT thread Ex e applications, please refer to NPT ANSI B1.20.1 standard.

