

# SAFETY, MAINTENANCE AND MOUNTING INSTRUCTIONS

## 1 MARKINGS and APPLICABLE CODES

## 2 Mounting Instruction for Drain and Ventilation Plug

IMQ 13 ATEX 030X IECEx IMQ 14.0003X



VENTILATION PLUG  
TYPE \*BBVP



DRAIN PLUG  
TYPE BDRV



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### MARKINGS

BMD BDRV..	CE 0722 Ex	II2GD Ex eb IIC Gb Ex tb IIIC Db IPXX IMQ 13 ATEX 030 X IECEx IMQ 14.0003 X
BMD *BBVP.	CE 0722 Ex	II2GD Ex eb IIC Gb Ex tb IIIC Db IPXX IMQ 13 ATEX 030 X IECEx IMQ 14.0003 X

### APPLICABLE STANDARDS

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

### OPERATING TEMPERATURES

For Drain Plug: -60°C to +85°C

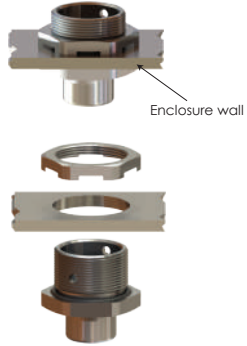
For Vent Plug: -40°C to +100°C

### FOR DRAIN PLUGS



Mount the Drain Plug to the appropriate opening on the enclosure.

Use locknut to tighten if the enclosure is non threaded.



### FOR VENTILATION PLUGS



Mount the Ventilation Plug to the appropriate opening on the enclosure.

Use locknut to tighten if the enclosure is non threaded.



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## SAFETY INSTRUCTION

- Qualified personnel in compliance with the national laws shall carry out the maintenance 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.
- 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 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.
- For O-Ring material silicon can be used.

## Non Threaded Enclosure Applications

Recommended hole diameters for non threaded enclosure applications in relation with the used thread types are shown below.

Metric Threads	
Thread	Hole Diameter (min. - max. mm)
M12x1.5	Ø12,0 - 12,2
M16x1.5	Ø16,0 - 16,2
M20x1.5	Ø20,0 - 20,2
M25x1.5	Ø25,0 - 25,2

PG Threads	
Thread	Hole Diameter (min. - max. mm)
PG7	Ø12,5 - 12,7
PG9	Ø15,2 - 15,4

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## SIZE TABLES OF DRAIN and VENTILATION PLUGS

Drain Plug Size Table	
Thread Type METRIC acc. to EN 60423	
Outer thread size	Part number
M20x1.5	BDRV-1M
M25x1.5	BDRV-1M
Thread Type NPT acc. to ANSI ASME B1.20.1	
Outer thread size	Part number
NPT 1/2"	BDRV-1N
NPT 3/4"	BDRV-2N

Ventilation Plug Size Table	
Thread Type METRIC acc. to EN 60423	
Outer thread size	Part number
M12x1.5	BBVP-X01
M16x1.5	BBVP-X02
M20x1.5	BBVP-X03
Thread Type PG acc. to DIN 40430	
Outer thread size	Part number
PG7	BBVP-X05P
PG9	BBVP-X02P
Thread Type NPT acc. to ANSI ASME B1.20.1	
Outer thread size	Part number
NPT 1/4"	BBVP-X01N

Ventilation Plug Membrane Types		
Thread Type METRIC acc. to ISO 965-3		
Average Air Flow $\Delta P=70$ mBar / 1 psi l/h	Water Intrusion Pressure bar	Part Number
16	0,9	SBBVP-X01
25	0,5	MBBVP-X01
120	0,2	HBBVP-X01
300	0,1	UHHBVP-X01

- The plugs should be assembled according to the Safety, Maintenance and Mounting Instruction in order to guarantee the specified IP ratings.
- The recommended wall thickness is min 1,5 mm for non threaded enclosures and in case of enclosure wall thickness is equal or lower than 1,5mm, flat washer and locknut should be used.

## Ex eb :

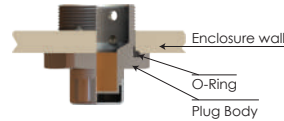
- For threaded enclosures, it is recommended to engage 3 full threads, otherwise it is recommended to use locknut.

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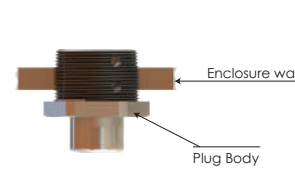
## SAFETY INSTRUCTION (IP PROTECTION)

## FOR DRAIN PLUGS

## Example for threaded joint

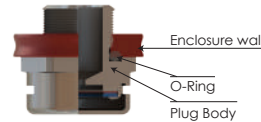


## Example for non threaded joint

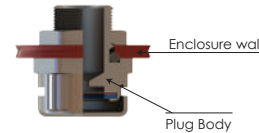


## FOR VENTILATION PLUGS

## Example for threaded joint



## Example for non threaded joint



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## EU DECLARATION OF CONFORMITY



EU DECLARATION OF CONFORMITY



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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.

Drain Plug Type; BDRV  
Ventilation Plug Type; \*BBVP  
Certificate Number; IMQ 13 ATEX 030X  
Protection Type; II 2 GD; Ex eb IIC Gb ; Ex tb IIC Db

EU Directive; ATEX 2014/34/EU  
The harmonized standards applied; EN IEC 60079-0: 2018  
EN IEC 60079-7:2015+A1:2018  
EN 60079-31:2014  
EN 60529:1992

Notified body CESI 0722

Istanbul, 15.09.2020

General Manager  
Yakup Gülnihal  
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A.Ş.

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