



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx IMQ 14.0003X**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 5

Issue 4 (2020-09-15)

Issue 3 (2019-06-03)

Issue 2 (2018-11-19)

Issue 1 (2016-10-26)

Issue 0 (2014-05-06)

Date of Issue: 2025-07-16

Applicant: **Bimed Teknik Aletler Sanayi Ve Ticaret A.Ş.**  
ÖZ-AR SANAYİ BÖLGESİ, Deliklikaya Mah. Yüzbaşı Mehmet  
Hilmi Cad. Dış kapı No: 28 İç Kapı No: 1 Arnavutköy  
İstanbul 34555  
**Türkiye**

Equipment: **Drain plug serie BDRVY...; ..Ventilation plug serie \*BBVP**

Optional accessory:

Type of Protection: **Ex eb; Ex tb**

Marking: Ex eb IIC Gb  
Ex tb III C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Mr. Mauro CASARI**

Position:

**IMQ ExCB Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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Via Quintiliano 43  
20138 Milano  
Italy





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Page 2 of 4

Date of issue: 2025-07-16

Issue No: 5

Manufacturer: **Bimed Teknik Aletler Sanayi Ve Ticaret A.Ş.**  
ÖZ-AR SANAYİ BÖLGESİ, Deliklikaya Mah. Yüzbaşı Mehmet Hilmi Cad. Dış kapı No: 28 İç Kapı No: 1 Arnavutköy  
İstanbul 34555  
**Türkiye**

Manufacturing locations: **Bimed Teknik Aletler Sanayi Ve Ticaret A.Ş.**  
ÖZ-AR SANAYİ BÖLGESİ, Deliklikaya Mah. Yüzbaşı Mehmet Hilmi Cad. Dış kapı No: 28 İç Kapı No: 1 Arnavutköy  
İstanbul 34555  
**Türkiye**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-31:2022** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

**IT/IMQ/ExTR14.0003/05**

Quality Assessment Report:

**IT/CES/QAR12.0003/12**



# IECEX Certificate of Conformity

Certificate No.: **IECEX IMQ 14.0003X**

Page 3 of 4

Date of issue: 2025-07-16

Issue No: 5

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Drain plug is a device intended for use to evacuate the water generated because of condensation inside the enclosure. Due to the fact that water is accumulated in bottom part of the enclosure, "drain plug" is assembled in the lowest part of the enclosure.

As a principle, no extra pressure is needed to drain the water out of the enclosure. Water will come out with the presence of drain plug device. Degree of ingress protection of drain plug is IP66. IP66 for drain plugs is guarantee if they are installed according to manufacturer instructions (IPX6 only downwards installation).

To maintain the IP level, drain plug membrane is manufactured from sintered material made of brass. The body of the drain plugs can be made of brass, nickel plated brass or stainless steel. The cap is always made of stainless steel, while the water barrier is made of brass. The external O-ring is made of silicone.

Drain plugs can be used with non-threaded enclosures, with the use of a lock nut, or can be used with threaded enclosures with Metric or NPT threaded form.

Ventilation plug adjusts the inner pressure of sealed equipment of type of protection "eb" and "tb" to the ambient pressure. It consists of a body with cap of stainless steel and a pressed in membrane. Degree of ingress protection of ventilation plug is detailed in below membrane specification table.

Further details are included in Annex.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- It is the user's responsibility to ensure that the appropriate ingress protection degree is maintained, carrying out the installation according to safety manufacturer instructions.
- The temperature class will be dependent on the enclosure into which it is installed, taking into account that at their point of mounting.

-60 ÷ 85 °C (drain plug)

-40 ÷ 100 °C (ventilation plug)

- Plain holes shall be than 0,7mm above the major diameter of the drain plug thread and the device shall be secured with locknut.
- In order to ensure the IPX6 degree of protection, drain plugs can only be installed downwards.



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Certificate No.: **IECEx IMQ 14.0003X**

Page 4 of 4

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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

### **Issue 1:**

- The hole on the side of the cap is removed, and moved to the side, and the hole diameter is smaller.
- The name of the product is changed in "drain plug" instead "drain valve".
- Change from "U" to "X"

**Issue 2:** Ventilation plug type \*BBVP... has been added.

**Issue 3:** A typing correction has been applied to Ventilation Plug coding system for metric threads (from \*BBVP-X01M to \*BBVP-X01L).

### **Issue 4:**

- TL option has been added to BDRV and \*BBVP types.
- New material for membrane of \*BBVP type has been added.
- New sizes (M16x1,5, M20x1,5 and PG9) have been added to \*BBVP types.
- Key code for BDRV and \*BBVP types have been changed.

### **Issue 5**

- Drain plug design change
- Address change
- Drain plug keycode change

## **Annex:**

[IECEx IMQ 14.0003 X Is. N.5\\_Annex.pdf](#)

## General description

Drain plug is a device intended for use to evacuate the water generated because of condensation inside the enclosure. Due to the fact that water is accumulated in bottom part of the enclosure, "drain plug" is assembled in the lowest part of the enclosure.

As a principle, no extra pressure is needed to drain the water out of the enclosure. Water will come out with the presence of drain plug device. Degree of ingress protection of drain plug is IP66. IP66 for drain plugs is guarantee if they are installed according to manufacturer instructions (IPX6 only downwards installation).

To maintain the IP level, drain plug membrane is manufactured from sintered material made of brass. The body of the drain plugs can be made of brass, nickel plated brass or stainless steel. The cap is always made of stainless steel, while the water barrier is made of brass. The external O-ring is made of silicone.

Drain plugs can be used with non-threaded enclosures, with the use of a lock nut, or can be used with threaded enclosures with Metric or NPT threaded form.

Ventilation plug adjusts the inner pressure of sealed equipment of type of protection "eb" and "tb" to the ambient pressure. It consists of a body with cap of stainless steel and a pressed in membrane. Degree of ingress protection of ventilation plug is detailed in below membrane specification table.

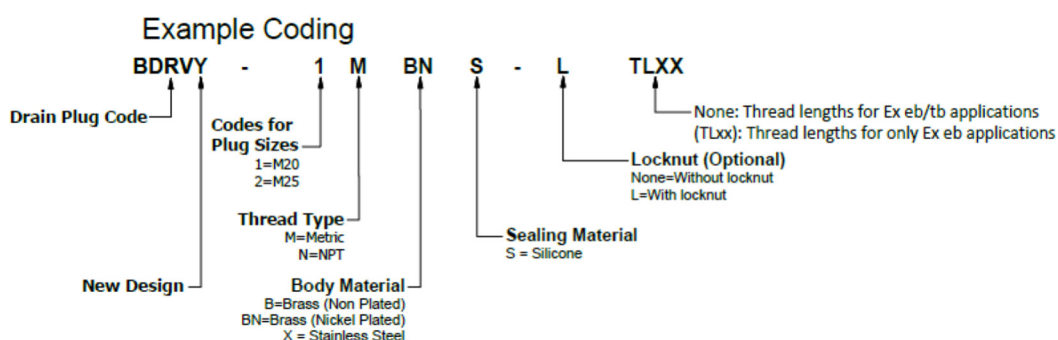
Membrane Specification				
Membrane Type	S	M	H	UH
Description (µm)	0,45	0,8	3	5
Protection Class	IP66, IP68	IP66, IP68	IP66, IP68	IP64
Water Intrusion Pressure bar	0,9	0,5	0,2	-
Average Air flow rate (lt/h) for Δp=70mB	16	25	120	300

Body, Cap and Ventilation plug ring are made of Stainless steel. External O-Ring/gasket is made of NBR and is mandatory for PG threads. Ventilation Plug sealing is made of PTFE. Membrane is made of Acrylic-Copolymer.

Ventilation Plugs can be used with non-threaded enclosures, with the use of a lock nut, or can be used with threaded enclosures with Metric, NPT or PG threaded form.

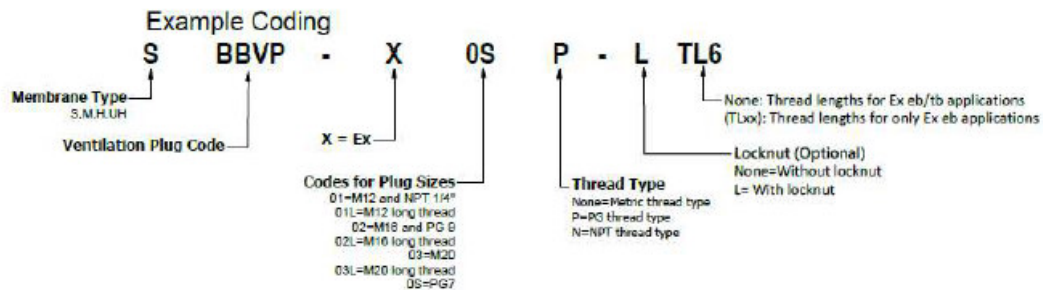
## Design options and Key code

### Drain plug:



Note: (Thread Length) in the key code is mandatory for products having thread length different than the minimum TL for ex eb/tb applications indicated in the assembly tables.

### Ventilation plug:



Note: (Thread Length) in the key code is mandatory for products having thread length different than the minimum TL for ex eb/tb applications indicated in the assembly tables.

### **Specific conditions of Use:**

- It is the user's responsibility to ensure that the appropriate ingress protection degree is maintained, carrying out the installation according to safety manufacturer instructions.
- The temperature class will be dependent on the enclosure into which it is installed, taking into account that at their point of mounting.
  - 60 ÷ 85 °C (drain plug)
  - 40 ÷ 100 °C (ventilation plug)
- Plain holes shall be than 0,7mm above the major diameter of the drain plug thread and the device shall be secured with locknut.
- In order to ensure the IPX6 degree of protection, drain plugs can only be installed downwards.

### **Models sizes**

#### Drain plug:

Type	Model
BDRVY ...	BDRVY 1 M . (M20)
	BDRVY 1 N . (1/2")
	BDRVY 2 M . (M25)
	BDRVY 2 N . (3/4")

#### Ventilation plug:

Type	Model
BBVP ...	BBVP-X01L (M12)
	BBVP-X01 (M12)
	BBVP-X02L (M16)
	BBVP-X02 (M16)
	BBVP-X03L (M20)
	BBVP-X03 (M20)
	BBVP-X0SP (PG7)
	BBVP-X02P (PG9)
	BBVP-X01N (1/4")