

BREATHER DRAIN PLUG

Ex db, Ex eb, Ex tb

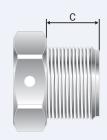
for General Industrial and Hazardous Area Installations

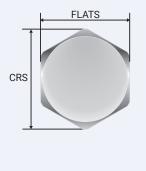
Features and Benefits

- Enables equipment to breathe whilst maintaining relevant protection levels.
- Drains water from equipment that is susceptible to moisture collection whilst maintaining relevant protection levels.
- · No limitations on the volume of enclosures.
- The Exe version is supplied with a castellated nut or optional serrated gasket with standard locknut for high vibration
 applications.
- Precision manufactured from high quality brass (Marine Grade Electroless Nickel Plated[™]) available in stainless steel 316/316L on request.
- Supplied with thread sealing gasket as standard

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Technical Data					
Туре:	Breather Drain Plugs for Ex d and Ex e applications				
Material:					
Body / Plug	Brass (Marine Grade Electroless Nickel Plated™), Stainless Steel 316/316L				
Sinter	Bronze or stainless steel				
Gasket	Standard HDPE, Nylon 66 or Extreme Temp. PTFE				
Standards and Certifications					
Equipment Protection Levels:	IECEx: (BD***E) Exe IIC Gb / Ex tb IIIC Db				
	(BD***D) Ex d IIC Gb / Ex tb IIIC Db				
ATEX/UKEX: (BD***E) 🐼 II 2 G D Ex eb IIC Gb / Ex tb IIIC Db					

	(BD***D) (ᢄx II 2 G D Ex db IIC (Gb / Ex tb IIIC Db			
	INMETRO: (BD***E) Ex e IIC Gb / Ex tb IIIC Db				
	(BD***D) Ex db IIC Gb / Ex tb II	IC Db			
	TR CU: (BD***E) 🖬 1Ex e IIC Gb X, Ex tl	o IIIC Db X			
	(BD***D) 🖬 1Ex d IIC Gb X, Ex t	b IIIC Db X			
Conformance:	Standard:	Certificate:			
IECEx	IEC 60079 Parts 0, 1, 7, 31	IECEx CML 16.0021X			
ATEX	EN 60079 Parts 0, 1, 7, 31	CML 16ATEX1029X			
UKEX	BS EN 60079 Parts 0, 1, 7, 31	CML 21UKEX1018X			
INMETRO (Brazil)	ABNT NBR IEC 60079 Parts 0, 1, 7, 31	TÜV 16.1857X			
TR CU (Russia)	ГОСТ Р МЗК 60079-0, 7, 31, ГОСТ IEC 6007	79-1 TC RU C-ZA.ME92.B.00695			
SANS/IEC	IEC 60079 Parts 0, 1, 7, 31, IEC 60529	MASC MS/16-1175X			
IP66 - BD***E	IEC 60529	IECEx CML 16.0021X			
IP6X - BD***D	IEC 60529	IECEx CML 16.0021X			
Marine ABS	IEC 60079 Parts 0, 1, 7, 15, 31, IEC 60529	ABS 20-1952706-1-PDA			
DNV-GL	IEC 60079 Parts 0, 1, 7, IEC 60529	DNV-GL TAE0000010			





Service Temp.

-60°C to +95°C

-60°C to +95°C

-60°C to +100°C

-60°C to +160°C

Conditions for Safe Use - X

• The breather drain plugs shall be used with the supplied thread sealing gaskets and the installer shall ensure that the surface of the enclosure against which the thread sealing gasket seals is in good condition.

- The breather drain plugs must be installed at the bottom of the equipment.
- The breather drain plugs must be installed directly to equipment and shall not be used with any form of entry
 device such as adaptors or reducers.
- The service temperature ranges shall not be exceeded as per Table 1.

Product Code	Protection Level	Entry Thread		Hexagonal Detail		Installation Torque
		Туре	Minimum Length 'C'	Maximum 'Flats'	Maximum 'Crns'	Value Nm
BDM12E	Exe	M12x1.5	12.0	18.0	20.3	21.0
BDM16E	Exe	M16x1.5	12.0	22.0	24.8	21.0
BDM20E	Exe	M20x1.5	12.0	24.0	27.0	21.0
BDM25E	Exe	M25x1.5	12.0	32.0	36.0	30.0
BDN12E	Exe	1/2" NPT	15.0	24.0	27.0	21.0
BDN34E	Exe	34" NPT	15.0	32.0	36.0	30.0
BDM20D	Exd	M20x1.5	15.0	24.0	27.0	21.0
BDM25D	Exd	M25x1.5	15.0	32.0	36.0	30.0
BDN12D	Exd	1/2" NPT	15.0	24.0	27.0	21.0
BDN34D	Exd	34" NPT	15.0	32.0	36.0	30.0

CCG reserves the right to make alterations to the technical data, dimensions, designs and products available without notice. The illustrations cannot be considered binding. Please contact CCG for a

All dimensions except NPT are in mm. Larger thread sizes are available.



Table 1 Breather / Drain BD***D (All arrangements)

BD***E (HDPE gasket)

BD***E (Nylon gasket)

BD***E (PTFE gasket)

FITTING INSTRUCTIONS Metric Illustration



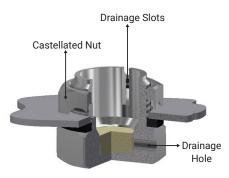
Ex d, Ex tb, BREATHER / DRAIN PLUG

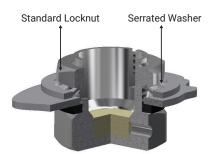
- 1. Ensure that the inner plug is fully tightened into the breather/ drain body.
- 2. The Ex d breather drain plug must be fitted to an appropriate threaded entry at the bottom of the equipment.
- 3. Tighten to torque as shown in the table below (metric threads). NPT versions should be tightened 'wrench tight'.
- 4. If the entry thread is NPT then appropriate thread sealing means may be used.



Ex e, Ex tb, BREATHER / DRAIN PLUG

- 1. The Ex e breather drain plug must be fitted to the bottom of the equipment. It can be screwed into a threaded entry or secured in a clearance hole using the castellated nut supplied.
- In high vibration applications the Ex e breather drain plug may optionally be secured using a serrated washer and standard locknut.
- Tighten locknuts to secure the breather/drain. Note that the Ex e breather drain has slots cut in its threads to assist draining. Excessive tightening of the locknut may cause thread distortion.





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