

Installation Instructions for Flame Proof and Increased Safety Breather Drain

These installation instructions give general instructions for safety and installation of Hoffman Breather Drains. These breather drains should only be used in applications and environments as detailed in these instructions.

Pentair will not take responsibility for any damage, injury or form of loss caused where products are not installed or used as detailed in these instructions.

Product Information

Catalog No.	Approval Nos.	Basic IP/CSA NEMA	Impact Resistance	Operating Temp
EXDBDM	ITS 13ATEX 17900X, IECEx ITS13.0049X	IP66/4X	20 Nm	-30°C to +150°C

Product Certification

Catalog No.	Material	CENELEC Certification
EXDBDM	316SS	I M2 II 2GD Exe I/IIc, Exd I/IIc MbGb, Ex tb IIIC Db

Selection

- Products should be selected in accordance with all relevant Standards and Codes of Practice.
 - Maximum Reference Pressure of Enclosure is limited to 4000kPa
 - Maximum permitted enclosure volume of 190 liters
- Ensure that the Breather Drain is certified to the same method of protection as the equipment to which it is to be installed.
- Ensure that the correct size Breather Drain is selected for the entry hole of the enclosure.
- Ensure that the Breather Drain material is suitable to the enclosure material and to the surrounding environmental conditions.
- Ensure that the surrounding conditions do not exceed the stated Operating Temperatures.
- Ensure that the Breather Drain is certified to the same Ingress Protection levels as the equipment into which it is to be installed. Breather Drain is IP66 and NEMA 4X.
- Ensure that the impact resistance of the Breather Drain is suitable to that of the equipment to which it is to be installed. Breather Drain has Impact Resistance of 20 Nm.
- For flameproof applications a temperature rise of 26.8K is to be taken into account in determining the Temperature Class of the equipment to which the breather is fitted.

Installation

- All Breather Drains should be installed in accordance with all relevant Installation Standards and Codes of Practice. BS EN 60079-01:2007.
- Installation of the product should only be carried out by an engineer trained in cable gland installation.
- Positioning : To facilitate optimum drainage, the Breather Drain should be fitted onto the bottom face at the lowest point. The breather is not restricted to be fitted on the bottom for pressure compensation; it may be fitted on any suitable surface.
- Maintaining IP Rating – In order to ensure the effectiveness of the 'O' ring seal and to maintain the IP Rating of the component, the surface of the enclosure should be clean and free from dust or moisture before assembly. The installer should also ensure that the 'O' ring seal is seated in the groove provided.
- Assembly and Recommended Installation Torque – In order to maintain the integrity of the enclosure it is important to ensure that the 'O' ring seal is properly seated in the groove provided. An installation Torque as detailed in the table below should then be applied.

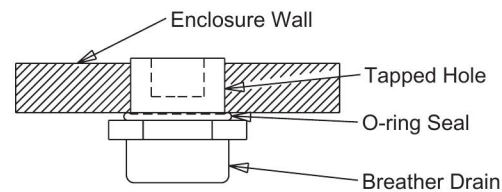
Product Information

Thread Size	Recommended Installation Torque
M20	32.5 Nm
M25	47.5 Nm

Assembly

The Breather Drain should be installed as shown in Fig 1.

Fig. 1 Assembly arrangement for Threaded Entries



Routine Checking and Maintenance

The component should be checked during routine maintenance of the enclosure. Any surface debris that may accumulate on the internal dust seal should be removed with compressed air. Should the exterior drainage holes become blocked, then again this can be cleared with compressed air.

Declaration

The Copper Bronze Alloy integrated seal will have a nominal pore size of 21µm with a maximum pore size of 80µm. The minimum density will be 31%.