

# Hazardous Location Breather Drains

Hazardous Location Breather Drains prevent moisture build-up within hazardous approved enclosures while maintaining enclosure UL Type rating. Drains are to be used when an enclosure is subject to fluctuations in temperature which can lead to the formation of condensation and a subsequent moisture build-up. These drains allow air within an enclosure to breathe with the surrounding atmosphere, preventing condensation and any potential damage to electrical equipment.

## INDUSTRY STANDARDS

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Ex e Breather Drains

Certified for Zone 1 or 2 areas

ATEX

Sira 13ATEX3354U

Ex e IIC Gb

Ex tb IIIC Db IP66

IECEX

IECEX SIR 13.0138U

Ex e IIC Gb

Ex tb IIIC Db IP66

cCSAus Certified Class 1 Zone 1, Ex e II, IP66, Type 4X

NEMA/EEMAC Type 4, 4X

IEC 60529, IP66

Maintain enclosure Type 4, 4X rating when properly installed

Ex d Breather Drains

Certified for Zone 1 or 2 areas

ATEX

ITS13ATEX17900X

Ex d IIC Gb

Ex e IIC Gb

Ex tb IIIC Db IP66

IECEX

IECEX ITS 13.0049X

Ex d IIC Gb

Ex e IIC Gb

Ex tb IIIC Db IP66

NEMA/EEMAC Type 4, 4X

IEC 60529, IP66

Maintain enclosure Type 4, 4X rating when properly installed



## FEATURES

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Reduce corrosion that can limit the life of internal electrical and electronic components

Prevent condensation when installations are subject to fluctuations in temperature in hazardous locations

Effectively drain any water present within the enclosure

Minimize moisture build-up within the enclosure by allowing air in the enclosure to breathe with surrounding atmosphere

Position at the lowest point of an enclosure to ensure optimal draining of any moisture

Maintain enclosure's UL Type rating when properly installed

Available for Increased Safety (Ex e) and Flameproof (Ex d) applications

Ex e Breather Drains:

Includes castellated nut and nitrile O-ring

10mm thread length

Install in a clearance hole 0.5 to 1.0mm larger than major diameter, or in a tapped hole

Operating temperature of -58 F (-50 C) to 185 F (85 C)

Ex d Breather Drains:

Includes silicone O-ring

16mm thread length

Install in a tapped hole

Ex d Breather Drains operating temperature of -22 F (-30 C) to 302 F (150 C)

**Finish:** Brushed  
**Material:** Stainless Steel 316L

## SPECIFICATIONS

| Catalog Number | Article Number | Height | Width | Depth | Thread Type |
|----------------|----------------|--------|-------|-------|-------------|
| EXEBDM20SS6    | 27165          | 40mm   | 39mm  | 25mm  | M20         |
| EXDBDM20SS6    | 27167          | 40mm   | 39mm  | 25mm  | M20         |
| EXEBDM25SS6    | 27166          | 40mm   | 39mm  | 25mm  | M25         |
| EXDBDM25SS6    | 27168          | 40mm   | 39mm  | 25mm  | M25         |

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.



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