



**KILLARK**<sup>®</sup>

**HUBBELL ELECTRICAL PRODUCTS**

A Division of HUBBELL INCORPORATED (Delaware)  
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**INSTALLATION, OPERATION & MAINTENANCE DATA SHEET**  
**KB1B/KB1D (NPT) and KBM20B/KBM20D (Metric) BREATHER & DRAIN SERIES.**  
**CLASS I, GROUPS B,C,D, CLASS II, GROUPS E,F,G; CLASS III, HAZARDOUS (CLASSIFIED) LOCATIONS**

**For use in Explosive Atmospheres**

**IECEX: Ex d IIB+H2 Gb IP44**

**ATEX: Ex d IIC Gb IP44**

**SPECIAL CONDITIONS FOR SAFE USE**

Do not use this product in explosive atmospheres containing acetylene gas.  
For use in enclosures with maximum internal volume of **9,764** cubic in; (**160,000** cubic cm)

**Application:** When used as a drain, it allows the discharge of accumulated water due to internal condensation. As a breather, it stabilizes the atmospheric pressure inside the enclosure. (The series provide through-wall connections for NPT and Metric style threads.)

**Preparation for Installation:**

- 1.) For installation of **1/2-14 NPT**, gauge the opening from flush to 2 turn pass the notch.
- 1.) For installation of **M20x1.5 6g**, gauge the opening with GO and NO-GO gauges for proper fit.

**Caution:** Before installing, make sure you are compliant with area classifications, failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code.

Make sure that the circuit is De-energized before starting installation or maintenance.  
Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.

**Important:** Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.

**Operating Temperature:**

KB series breather and drain operating temperature: (-50° to +60°C).

**Thread designation for Connections**

Series	Thru-wall connection
KB1BCEN	1/2-14 NPT
KB1DCEN	1/2-14 NPT
KBM20BCEN	M20x1.5 6g
KBM20DCEN	M20x1.5 6g

**Material Suffix:**

- Aluminium: (blank)
- Stainless 303: SS
- Stainless 316: SS6
- Ni plated Brass: BS

**Installation and Maintenance:** Before installing, apply some lubricant (such as Killark's LUBG-6 thread lubricant) to the threads. Install fitting in the proper threaded opening and wrench tighten. Inspect the breather/drain on a regular schedule to ensure the drain is free of dirt and free-floating particle build up. Failure to do so could result in a clogged drain, which may prevent water from exiting the enclosure. If a build up occurs, do not attempt to clean and re-use the unit. It should be replaced. This will help prevent damage to the internal electrical equipment.