




**KILLARK®**

## INSTALLATION, OPERATION & MAINTENANCE DATA SHEET

KDB-xxx (NPT) and KDB-Mxx (Metric) BREATHER & DRAIN SERIES  
CLASS I, GROUPS C & D, CLASS II, GROUPS E, F, G;  
CLASS III, HAZARDOUS (CLASSIFIED) LOCATIONS  
For use in Explosive Atmospheres

IECEx: Ex d IIB T3 Gb IP44\_\_ ATEX:  Ex d IIB T3 Gb IP44



# KDB-xxx (NPT) and KDB-Mxx (Metric) BREATHER & DRAIN SERIES

### 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.

Technical information, advice and recommendations contained in these documents is based upon information that Killark believes to be reliable. All the information and advice contained in these documents is intended for use only by persons having been trained and possessing the requisite skill and know-how and to be used by such persons only at their own discretion and risk. The nature of these instructions is informative only and does not cover all of the details, variations or combinations in which this equipment may be used, its storage, delivery, installation, check out, safe operation and maintenance. Since conditions of use of the product are outside of the care, custody and control of Killark, the purchaser should determine the suitability of the product for his intended use, and assumes all risk and liability whatsoever in connection therewith.

**KILLARK®**



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P/N KIL00921367 FORM NO. K1367 10/10 ERO I-005-10

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## **1. 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).

## **2. 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).

## **3. PREPARATION FOR INSTALLATION**

1. For installation of 1/4-18 NPT and 3/8-18 NPT, gauge the opening from flush to 2 turn pass the notch.
2. For installation of M20x1.5 6g and M20x1.5 6g, gauge the opening with GO and NO-GO gauges for proper fit.

## **4. OPERATING TEMPERATURE**

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

## **5. THREAD DESIGNATION FOR CONNECTIONS**

<b>Series</b>	<b>Thru-wall connection</b>
KDB-250CEN	1/4-18 NPT
KDB-375CEN	3/8-18 NPT
KDB-M16CEN	M16x1.5 6g
KDB-M20CEN	M20x1.5 6g

### **Material Suffix:**

Aluminium: (blank)

Stainless 303: SS

Stainless 316: SS6

Ni plated Brass: BS

## **6. 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.

