

How Desiccant Breathers Protect Your Equipment and Systems from Moisture and Contamination



Desiccant breathers are a vital component in ensuring the longevity and efficiency of industrial equipment and systems. These devices protect machinery and systems from moisture and contamination, which can cause damage and reduce their operational lifespan. In this blog, we will explore what desiccant breathers are, how they work, and their benefits in protecting industrial equipment and systems.

What are Desiccant Breathers?

Desiccant breathers are devices that protect industrial equipment and systems from moisture and contamination. They work by using desiccant material to absorb moisture from the air before it enters the machine or system. They are used in a variety of applications, including hydraulic systems, gearboxes, storage tanks, and other machinery that requires clean, dry air.

How do Desiccant Breathers Work?

Desiccant breathers are designed to work in a two-stage process. The first stage is a particulate filter that removes solid contaminants from the air. The second stage is a desiccant material that absorbs moisture from the air. When air enters the breather, it passes through the particulate filter, which removes any solid contaminants, such as dirt or dust. The air then passes through the desiccant material, which absorbs any moisture in the air. The clean, dry air then enters the system protected from contamination and moisture.

What are the Benefits of Desiccant Breathers?

There are several benefits to using desiccant breathers in industrial equipment and systems:

- **Protection from moisture:** Moisture can cause corrosion, rust, and other damage to industrial equipment and systems. Desiccant breathers absorb moisture from the air before it enters the system, protecting the equipment from damage.
- **Protection from contamination:** Contaminants, such as dirt and dust, can also cause damage to industrial equipment and systems. Desiccant breathers remove these contaminants from the air before it enters the system, protecting the equipment from damage.
- **Extended equipment life:** By protecting industrial equipment and systems from moisture and contamination, desiccant breathers help extend the lifespan of equipment and systems. This can save companies money by reducing the need for repairs and replacements.
- **Improved efficiency:** Clean, dry air can improve the efficiency of industrial equipment and systems. By removing moisture and contaminants, desiccant breathers help equipment and systems operate more efficiently, reducing energy consumption and improving performance.

In conclusion, desiccant breathers are a critical component in protecting industrial equipment and systems from moisture and contamination. By using a two-stage process to remove solid contaminants and absorb moisture, these devices help extend the lifespan of industrial equipment and systems while improving their efficiency. Distributors and maintenance professionals should consider using desiccant breather in their operations to protect equipment and reduce the need for repairs and replacements.

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