

# Des-Case High Capacity Breather

made possible by

## COLOR ASSIST™ TECHNOLOGY

### STORAGE

Product should be stored in original packaging in a clean and dry environment without extended exposure to extreme temperatures, high humidity, sunlight, or other UV light sources.

### INSTALLATION INSTRUCTIONS:

1. Remove gray covering on bottom of breather. DO NOT remove clear check valves from bottom of breather.



Bottom View of Check Valves

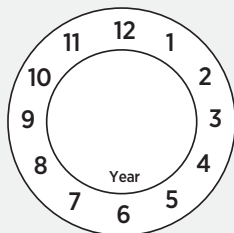
2. Install breather on equipment directly, or through an adapter/adapter kit. Hand-tighten to seal.

*Note: In high particulate environments, it is best practice to use a vacuum indicator with desiccant breathers.*

3. Document the install date of the breather on the label or in a document.

*Note: Best practice is to add inspecting breather to CMMS.*

Installation Date:



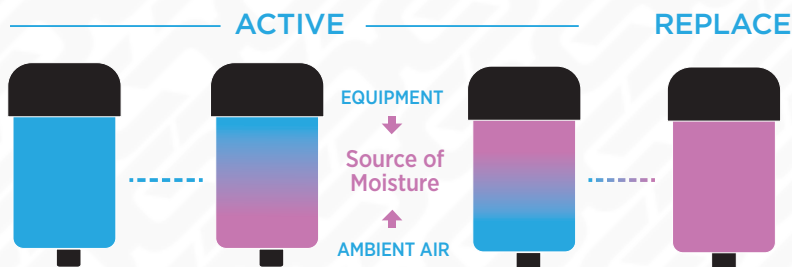
Mark month of install on outer ring, and write year in middle circle

### MAINTENANCE / INSPECTION:

Breathers should be replaced based on color, or, if using a vacuum indicator (suggested), whichever indication is first.

If not using a vacuum indicator, best practice is to change the breather after 12-18 months regardless of color.

1. Inspect the color of the desiccant breather per PM schedule or biweekly at a minimum.
  - a. When the breather is fully blue, it has its full capacity and has not yet been saturated.
  - b. As the breather gradually turns from blue to pink, it indicates spending as it becomes saturated.
    - i. Under many conditions, the filter turns pink from the bottom up. This indicates that the main moisture comes from outside the equipment.
    - ii. If the filter turns pink from the top down, it means there is a moisture problem inside the equipment that the breather is beginning to dry out.
    - iii. It is possible for the color change to happen from both the top and bottom of the breather. This indicates moisture coming from inside and outside of the equipment.



- c. When the breather becomes fully pink, it has become saturated and has reached maximum water capacity. When the entire breather has turned pink, it should be replaced.
- d. Green, orange, or brown colors mean that there is oil coming from the application, being absorbed by the silica gel.
  - i. Oil can saturate the silica gel due to a variety of reasons. Contact Des-Case for professional evaluation if you notice oil saturation in your breather.
  - ii. Some ways to solve oil mist and splashing are to use an angled or extended pipe or an oil mist reducing adapter. For hydraulic and storage tanks, make sure the breather is sized to handle the pump flow.



*A green/brown color indicates that the silica gel has absorbed oil, but is not exposed to moisture.*



*An orange color indicates the silica gel has absorbed oil and moisture.*

**2. When you have the breather installed with a vacuum indicator, check the color of the window on the adapter.**

- a. The red color means that there is significant differential pressure and therefore the filter is saturated by particles (clogged) so it must be changed immediately regardless of the color of the desiccant.



## DISPOSAL

When one of the listed indications shows that the breather needs to be replaced, dispose of the breather according to local regulations.