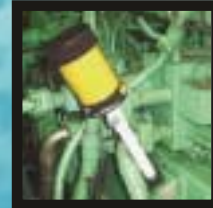


Trico introduces Watchdog® desiccant breathers...

# The Clean, Safe Approach to Lubrication Management



Trico's new desiccant breathers replace the standard vent cap on industrial equipment.

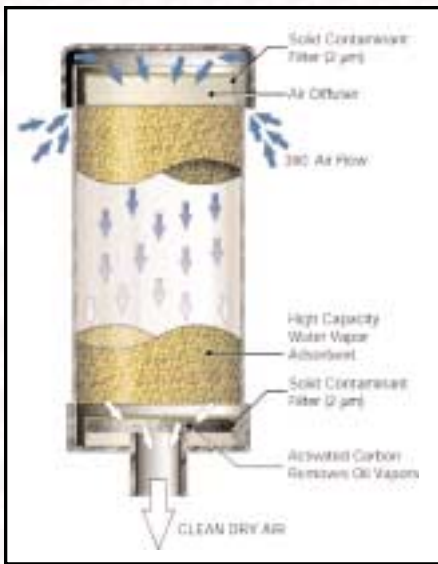
The Watchdog desiccant breathers perform two very important functions.

1. They adsorb unwanted moisture inside industrial equipment allowing for prolonged fluid life.
  - **Water vapor adsorbent** – The silica gel used in the Watchdog desiccant breathers adsorb up to 40% of its own weight.
  - **Color indicator** – When maximum adsorption is reached the silica gel turns from gold to dark green, indicating replacement is needed. The silica gel used in the Watchdog desiccant breathers is chemically inert, non-corrosive, and does not contain cobalt chloride, a heavy metal. The color changing dye used is environmentally safe and meets all health and safety requirements.
2. They collect airborne solid particles eliminating damaging abrasive build-up inside the equipment.
  - **Dual filtration system** – A two micron filter (99% efficiency) is located at the top and bottom of the silica gel bed. The top filter removes particle contamination from atmospheric air and the bottom helps with dust created by the silica gel beads contacting each other.
  - **Activated carbon** – As air is expelled, it passes through activated carbon which removes oil vapors, fumes, and odors (except for part numbers 39131, 39132, 39133, and 39134).

## Applications:

- Circulating oil systems
- Gearboxes
- Process pumps
- Storage tanks
- Vacuum systems
- Hydraulic systems
- Transformer cases
- Anywhere that industrial equipment needs to be dry and clean





## Features:

- **Bi-directional air flow** – A 360° air flow allows air to be breathed in and out as fluid level changes or differential pressures occur. Expelled air “backflushes” the particulate filter to prolong the life of the breather.
- **Durable construction** – Watchdog desiccant breathers are manufactured from rugged ABS plastic and impact-modified acrylic.

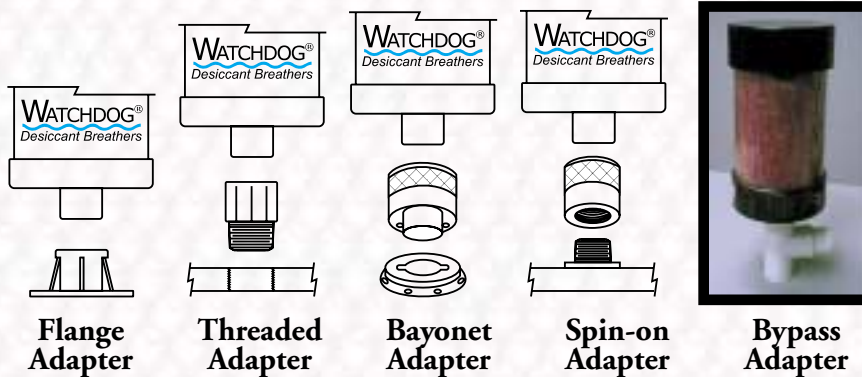
## UNIT SELECTION

Part Number	Height (inches)	Diameter (inches)	Connection Size	Silica Gel Volume	Water Capacity lbs / ltr	Air Flow
39100	4.75	5	1" Male Friction Fit	.59 lb.	0.2 / 0.1	35 CFM (260 gpm of fluid volume exchange)
39101	6.25	5	1" Male Friction Fit	1.20 lb.	0.4 / 0.2	
39102	9.25	5	1" Male Friction Fit	2.31 lb.	0.9 / 0.5	
39108	11.25	5	2" Male NPT	3.1 lb.	1.3 / 0.6	100 CFM (750 gpm of fluid volume exchange)
39131	2	2	1/2" Female NPT	.08 lb.	.032 / .014	10 CFM (75 gpm of fluid volume exchange)
39132	3.25	2	1/2" Female NPT	.15 lb.	.056 / .027	
39133	2	3.25	1/2" Female NPT	.27 lb.	.104 / .049	
39134	3.25	3.25	1/2" Female NPT	.48 lb.	.18 / .087	

\*The size of the reservoir does not determine the type of breather to use. The airflow both in and out of the reservoir determines the type to choose. Two factors create airflow, they are temperature variations (which cause very low airflow rates) and fluid volume changes.

## Adapter Selection

Watchdog desiccant breathers are easily installed using one of several adapters designed for different applications.



The Bypass Adapter is designed for applications where there is very heavy oil mist being expelled from the equipment. When air is breathed into the equipment, it passes through the Watchdog® and is cleaned and dried. When the air is breathed out of the equipment it enters the adapter and is expelled to the outside without passing back through the breather. This protects the breather from oil contamination.



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