

A Longer Life Breather for Hydraulic Reservoirs - Donaldson T.R.A.P.



Donaldson T.R.A.P. breathers actually exhale the moisture back out, which means you won't need to change the breather due to water saturation ... unlike desiccant filters that require frequent change-out.

Like the name suggests, it TRAPS water before it gets in, yet doesn't restrict air flow, and lets your hydraulic reservoir breathe.

Donaldson®

Superior Moisture Blocking and Particulate Filtration

...T.R.A.P. Breathers last longer. So will your budget!

Thermally Reactive Advanced Protection (T.R.A.P.)

Water has a way of sneaking into your hydraulic circuits. Unless you have a Donaldson T.R.A.P.™ breather standing guard over your system.

NO moisture slips by Donaldson's Thermally Reactive Advanced Protection (T.R.A.P.). In fact, it removes moisture at relative humidity levels as low as 15%! T.R.A.P. filtration technology reacts instantly to thermal conditions, blocking moisture completely.

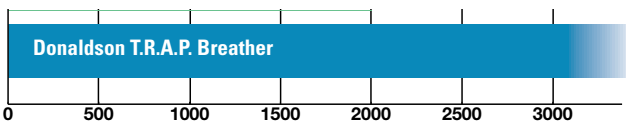
T.R.A.P. Breathers from Donaldson are the ONLY breathers on the market that literally strip moisture

vapor from intake air and exhale the moisture back to the atmosphere on the outflow cycle. The filter continuously regenerates its water holding capacity!

T.R.A.P. breathers actually exhale the moisture back out, which means you won't need to change the breather due to water saturation ... unlike desiccant filters that require frequent change-out. Like the name suggests, it TRAPS water before it gets in, yet doesn't restrict air flow, and lets your hydraulic reservoir BREATHE.

T.R.A.P. Breathers last up to 3,000 cycles!

The patented T.R.A.P. filtering material regenerates its water-holding capacity, leading to a much longer service life than traditional desiccant breathers. In testing, T.R.A.P. Breathers performed beyond 3,000 cycles, while silica gel breathers lost efficiency at less than 2,000 cycles.



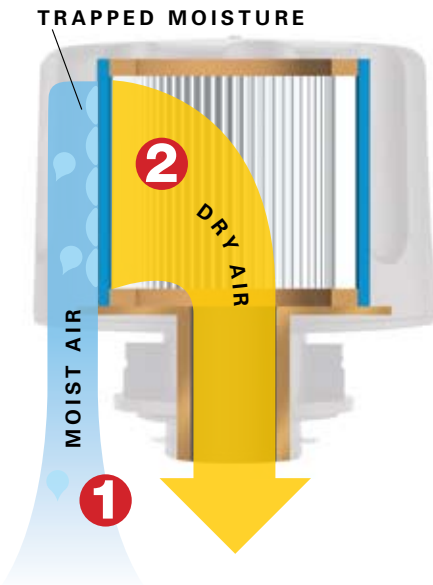
U.S. Patent #5,575,832

Compare T.R.A.P. Breathers and you'll be impressed.

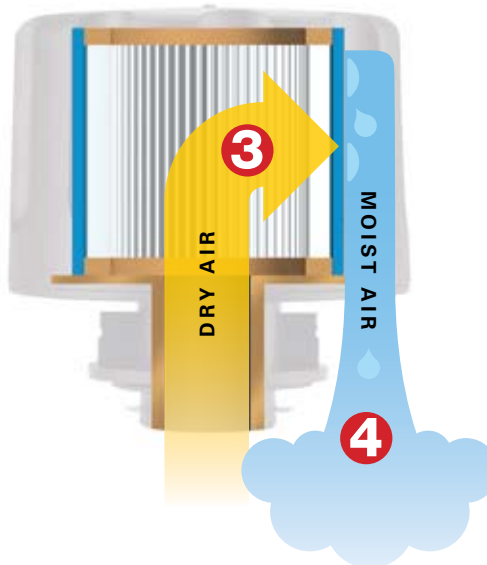
Compare	T.R.A.P. Technology	Desiccant Filters
Service life	Extended Life (exhales moisture and refreshes its holding capacity on each cycle).	Shorter life (due to saturation of filtering material), leading to frequent replacement.
Effectiveness	Reacts instantly to conditions in the hydraulic circuit, creating a moisture barrier without impeding airflow.	Requires extended exposure to the air stream before absorption begins. Restricts airflow and increases pressure.
Maintenance costs	Reduced man-hours.	Increased man-hours.
Technology	Thermally reactive barrier that removes moisture at relative humidity levels as low as 15%.	Absorbent filtering material that loses holding capacity with each cycle.
Filtration	Superior moisture blocking and particulate filtration down to 3 microns at 97%.	Less effective moisture blocking and particulate filtration.
Other Advantages	Will not freeze in winter.	Subject to freezing in winter conditions.

How it Works

INTAKE CYCLE (INHALATION)



OUTFLOW CYCLE (EXHALATION)



- 1 The circuit “breathes in” air containing moisture vapor.
- 2 The T.R.A.P. Breather strips moisture from the incoming air, allowing only dry air to enter the circuit.
- 3 During the “exhalation” cycle, The T.R.A.P. Breather allows unrestricted airflow outward.
- 4 The outflow of dry air picks up the moisture collected by the T.R.A.P. Breather during intake, and “blows it back out” – fully regenerating the T.R.A.P. Breather’s water-holding capacity.

What Users Report

“The T.R.A.P. Breathers last longer. They’re more durable.”

– Florida

“The T.R.A.P. Breathers have a longer service life. Desiccant filters seem to plug up quickly.”

– Illinois

“We test our oil every month. With the old desiccant filters, we always had free-standing water in the sample. With the T.R.A.P. Breathers, it’s nothing but pure oil.”

– Nebraska

T.R.A.P. Breather... Moisture meets its match.

- Minimize water in your system
- Maximize system uptime
- Put your man-hours where they benefit you the most!

Technical Features

Particulate Filter

Highly efficient pleated particulate filter stops particle sizes down to 3 microns at 97%.

Operating Temperature Range

-40°F to +200°F / -40°C to 66°C

Service Interval

Models with electrical indicator – actuated by pressure differential, flashes red to indicate change out is needed. Indicator setting, 1 PSID. Power source: 3V lithium battery CR2032

Optional mechanical indicator available (see back page).

Models with no indicator: change breather every 6 months

Caution Note!

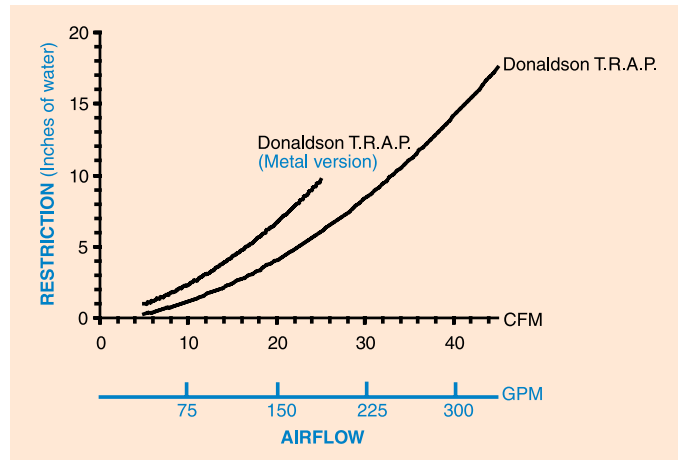
In environments with combustible dusts or vapors, use non-electrical models only.



Connection	Max. Flow		Material	Part No.	Indicator Style*
	CFM				
1" NPT	45 cfm		Glass-filled ABS	P566151	Optional Mechanical
1" NPT	45 cfm		Glass-filled ABS	P564669	Electronic
3/4" BSP	25 cfm		Epoxy coated steel	P566037	No
3/4" NPT	25 cfm		Epoxy coated steel	P565857	Optional Mechanical
Bayonet	25 cfm		Epoxy coated steel	P565858	No
Bayonet	45 cfm		Glass-filled ABS	P566156	No
Bayonet	45 cfm		Glass-filled ABS	P565616	Electronic

* In environments with combustible dusts or vapors, use non-electrical models only.

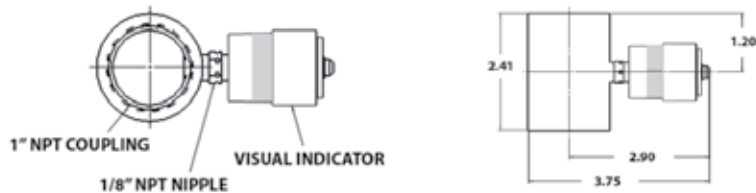
T.R.A.P.™ is a registered trademark of Donaldson Company Inc.



Apply T.R.A.P. based on fluid exchange rate, not reservoir size

Mechanical Indicator Kit - P566168

Install kit between reservoir and T.R.A.P. breather. Lock-up style indicator with manual reset. Highly visible, bright red band shows when restriction limit is reached. Indicator setting, 20" H₂O.



Donaldson

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