

Donaldson Delivers T.R.A.P.™ Breather Technology For Hydraulic and Lube Oil Reservoirs

## **MOISTURE MEETS ITS MATCH**

Donaldson T.R.A.P.<sup>™</sup> breathers collect and expel the moisture out of reservoirs, which means you won't need to change the breather due to water saturation ... unlike desiccant filters that require frequent change-out.

TRAP water and particulate before it gets in without restricting air flow – letting your hydraulic and lube oil reservoirs breathe easy.





## Superior Moisture Blocking Advanced Particulate Filtration and Oil Mist Control

### 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.

Moisture is blocked by Donaldson's T.R.A.P. breather. In fact, it removes moisture at relative humidity levels as low as 15%. T.R.A.P. filtration technology reacts instantly to changes in thermal conditions – blocking moisture.

T.R.A.P. breathers strip moisture vapor from intake air and releases the moisture back to the atmosphere on the outflow cycle. The filter continuously regenerates its water holding capacity. T.R.A.P. breathers expel the moisture back out, eliminating the need to change the breather due to water saturation ... unlike desiccant filters that require frequent change-out. T.R.A.P. breathers not only protect against moisture but also provide advanced particulate filtration.

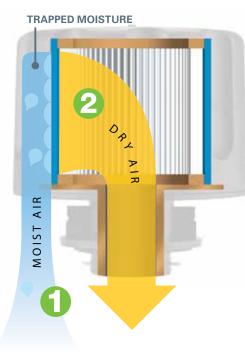
Compare	T.R.A.P. Technology	Desiccant Filters
Service Life	Extended life (expels moisture and refreshes its holding capacity on each cycle).	Shorter life (due to saturation of filtering material), leading to frequent replacement.
Effectiveness	Reacts instantly to conditions in the hydraulic circuit, creating a moisture barrier without impeding airflow.	Requires extended exposure to the air stream before absorption begins. Restricts airflow.
Maintenance costs	Reduced service hours.	Increased service 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% with up to 7x the media area.	Less effective moisture blocking and particulate filtration with smaller filtration area.
Oil Mist	Built-in coalescing stage.	No oil mist control.
Other Advantages	Will not freeze in winter.	Subject to freezing in winter conditions.

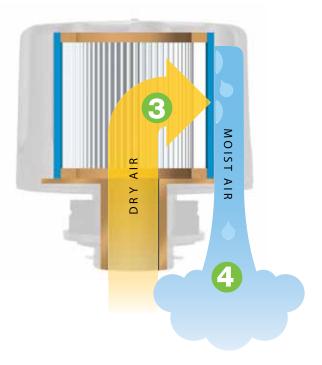
TRAP water before it gets in without restricting air flow, letting your hydraulic and lube oil reservoirs BREATHE.

## Moisture Meets its Match See How it Works



T.R.A.P.<sup>™</sup> breathers from Donaldson are the only breathers on the market that literally strip moisture vapor from intake air and expel the moisture back to the atmosphere on the outflow cycle. The filter continuously regenerates its water holding capacity!





**INTAKE CYCLE (INHALATION)** 

- The circuit "breathes in" air containing moisture vapor.
- 2 The T.R.A.P. breather strips moisture and particulate from the incoming air, allowing only clean, dry air to enter the circuit.

**OUTFLOW CYCLE (EXHALATION)** 

- 3 During the "exhalation" cycle, The T.R.A.P. breather allows unrestricted airflow outward.
- 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.



THERMALLY REACTIVE ADVANCED PROTECTION

# Extended Range T.R.A.P.<sup>™</sup> Breather Technology

### Donaldson T.R.A.P. breathers are available in a variety of configurations:

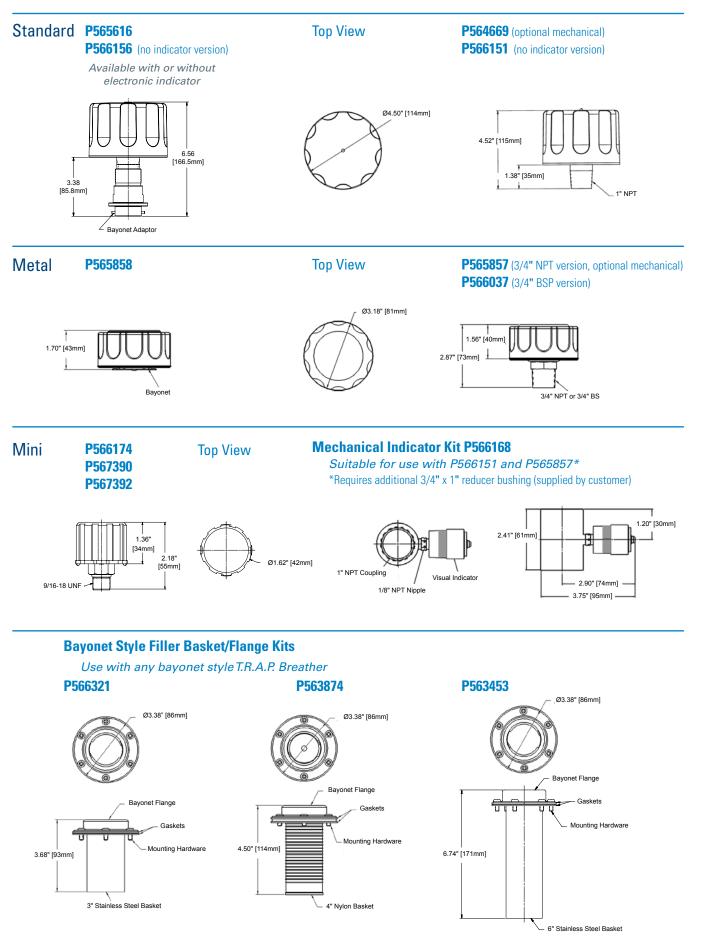
- ABS plastic, nylon or epoxy-coated steel construction
- NPT, BSP, UN straight thread or bayonet connections
- With and without electronic indicator options to fit a broad range of applications

## T.R.A.P. Breather Offering

hine	Part Number	Construction	Connection	Max Airflow (cfm/lpm)	Indicator	Oil Splash / Mist Containment
	P566151	ABS	1" NPT	45 / 1274	Optional Mechanical	Yes
	P566156	ABS	Bayonet using adapter	45 / 1274	No	Yes
	P564669	ABS	1" NPT	45 / 1274	Electronic	Yes
Standard	P565616	ABS	Bayonet using adapter	45 / 1274	Electronic	Yes
	P565857	Epoxy Coated Steel	3/4" NPT	25 / 708	Optional Mechanical	Yes
	P565858	Epoxy Coated Steel	Bayonet	25 / 708	No	Yes
Metal	P566037	Epoxy Coated Steel	3/4" BSP	25 / 708	No	Yes
-	P566174	Glass-filled Nylon	9/16"-18UN	3 / 85	No	Yes
	P567390	Glass-filled Nylon	3/8" NPT	3 / 85	No	Yes
Mini	P567392	Glass-filled Nylon	1/4" NPT	3 / 85	No	Yes

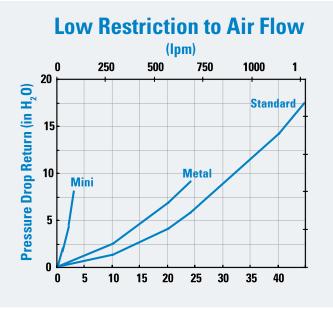
### T.R.A.P. Breather Sizing

### T.R.A.P. Breather Specifications



## T.R.A.P.<sup>™</sup> Breather Technology Eliminates Moisture and Particulate from Reservoirs





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

## **Technical Features**

#### **Particulate Filter**

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

#### **Service Interval**

• Optional mechanical indicator available

Models with no indicator: change breather every 6 months.

### **Operating Temperature Range**

• -40°F to +200°F / -40°C to 93°C

### **Electronic Indicator**

- Actuated by pressure differential, flashes red to indicate change out is needed. Indicator setting, 1 PSID (6.9kPa).
- Indicator power source: 3V lithium battery CR2032.

### **Mechanical Indicator Kit**

 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" H<sub>2</sub>O (5.0 kPa).

### Caution!

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



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