



## DONALDSON DELIVERS T.R.A.P.™ BREATHERS

DESIGNED FOR MOBILE & STATIONARY  
RESERVOIR BREATHER APPLICATIONS



**T.R.A.P. (Thermally Reactive Advanced Protection) breathers provide fast-acting protection against airborne moisture and particulate contamination.**

T.R.A.P. technology strips moisture vapour from intake air and expels the moisture back to the atmosphere. Moisture is prevented from entering and is actually “pumped” out with each flow cycle. The media regenerates its water-holding capacity, which leads to longer service life - 3 to 4 times the life of conventional desiccant breathers.



# T.R.A.P.™ Breathers

## Airflow 85lpm

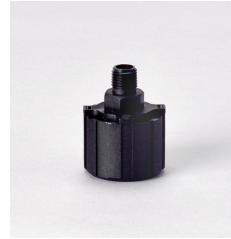
## Mini



**P566174**  
**Glass-filled nylon**  
 9/16" - 18UNF  
 Total Height: 56mm  
 Diameter: 42mm  
 Efficiency: 3µm @ 98%



**P567390**  
**Glass-filled nylon**  
 3/8" NPT  
 Total Height: 56mm  
 Diameter: 42mm  
 Efficiency: 3µm @ 98%



**P567392**  
**Glass-filled nylon**  
 1/4" NPT  
 Total Height: 56mm  
 Diameter: 42mm  
 Efficiency: 3µm @ 98%



**P567932<sup>^</sup>**  
**Glass-filled nylon**  
 3/8" NPT  
 Total Height: 56mm  
 Diameter: 42mm  
 Efficiency: 3µm @ 98%



**P567933<sup>^</sup>**  
**Glass-filled nylon**  
 1/4" NPT  
 Total Height: 56mm  
 Diameter: 42mm  
 Efficiency: 3µm @ 98%

**^**  
 Oil splash containment  
 Particulate only, no moisture removal

## Airflow 200lpm

## Anti-rollover Valve



**P767025**  
**Glass-filled nylon**  
 1/2" BSP  
 Total Height: 62mm  
 Diameter: 72.5mm  
 Efficiency: 10µm @ 98%



**P766645**  
**Glass-filled nylon**  
 3/4" BSP  
 Total Height: 64mm  
 Diameter: 72.5mm  
 Efficiency: 10µm @ 98%



**P766646**  
**Glass-filled nylon**  
 1" BSP  
 Total Height: 72.1mm  
 Diameter: 72.5mm  
 Efficiency: 10µm @ 98%

## Pressurisation Valve



**P767019**  
**Glass-filled nylon**  
 3/4" BSP  
 Total Height: 64mm  
 Diameter: 72.5mm  
 Pressure: 40kPa/5.8psi  
 Efficiency: 10µm @ 98%



**P767021**  
**Glass-filled nylon**  
 1" BSP  
 Total Height: 72.1mm  
 Diameter: 72.5mm  
 Pressure: 40kPa/5.8psi  
 Efficiency: 10µm @ 98%

## Airflow 300lpm

## Medium



**P767027**  
**Glass-filled nylon**  
 1/2" BSP  
 Total Height: 62mm  
 Diameter: 72.5mm  
 Efficiency: 10µm @ 98%



**P767029**  
**Glass-filled nylon**  
 3/4" BSP  
 Total Height: 64mm  
 Diameter: 72.5mm  
 Efficiency: 10µm @ 98%



**P767031**  
**Glass-filled nylon**  
 1" BSP  
 Total Height: 72.1mm  
 Diameter: 72.5mm  
 Efficiency: 10µm @ 98%

# T.R.A.P.™ Breathers

## Airflow 708lpm

## Metal



**P565857**  
**Epoxy-coated steel**  
 3/4" NPT  
 Total Height: 72.9mm  
 Diameter: 80.8mm  
 Efficiency: 3µm @ 98%



**P566037**  
**Epoxy-coated steel**  
 3/4" BSP  
 Total Height: 70.1mm  
 Diameter: 80.8mm  
 Efficiency: 3µm @ 98%



**P575077**  
**Epoxy-coated steel**  
 Bayonet with lock tab  
 Total Height: 40.9mm  
 Diameter: 80.8mm  
 Efficiency: 3µm @ 98%



**P565858**  
**Epoxy-coated steel**  
 Bayonet  
 Total Height: 40.9mm  
 Diameter: 80.8mm  
 Efficiency: 3µm @ 98%

## Airflow 1,274lpm

## Large



**P566151**  
**Glass-filled ABS**  
 1" NPT  
 Total Height: 115.1mm  
 Diameter: 114.3mm  
 Efficiency: 3µm @ 98%



**P564669<sup>1</sup>**  
**Glass-filled ABS**  
 1" NPT  
 Total Height: 115.1mm  
 Diameter: 114.3mm  
 Efficiency: 3µm @ 98%



**P505964**  
**Adapter**  
 1" NPT female -  
 3/4" BSP Male



**P566156**  
**Glass-filled ABS**  
 Bayonet  
 Total Height: 167.6mm  
 Diameter: 114.3mm  
 Efficiency: 3µm @ 98%



**P565616<sup>1</sup>**  
**Glass-filled ABS**  
 Bayonet  
 Total Height: 167.6mm  
 Diameter: 114.3mm  
 Efficiency: 3µm @ 98%

## Recommended Max Airflow 500lpm

## X-Large



**P923075**  
**Urethane**  
 1 1/4" BSP (m)  
 Total Height: 247mm  
 Diameter: 176.5mm  
 Efficiency: 3µ @ 98%



**P506159<sup>2</sup>**  
**Brass, Urethane**  
 1 1/2" BSP (f)  
 Total Height: 366mm  
 Maximum Width: 212mm  
 Relief Valve Set: 2.32PSI/15aPa

<sup>1</sup> Electronic indicator triggered by pressure differential, and flashes red to indicate a change out is required (1 PSID).

<sup>2</sup> Includes visual indicator

# Moisture Meets it Match

## How it Works

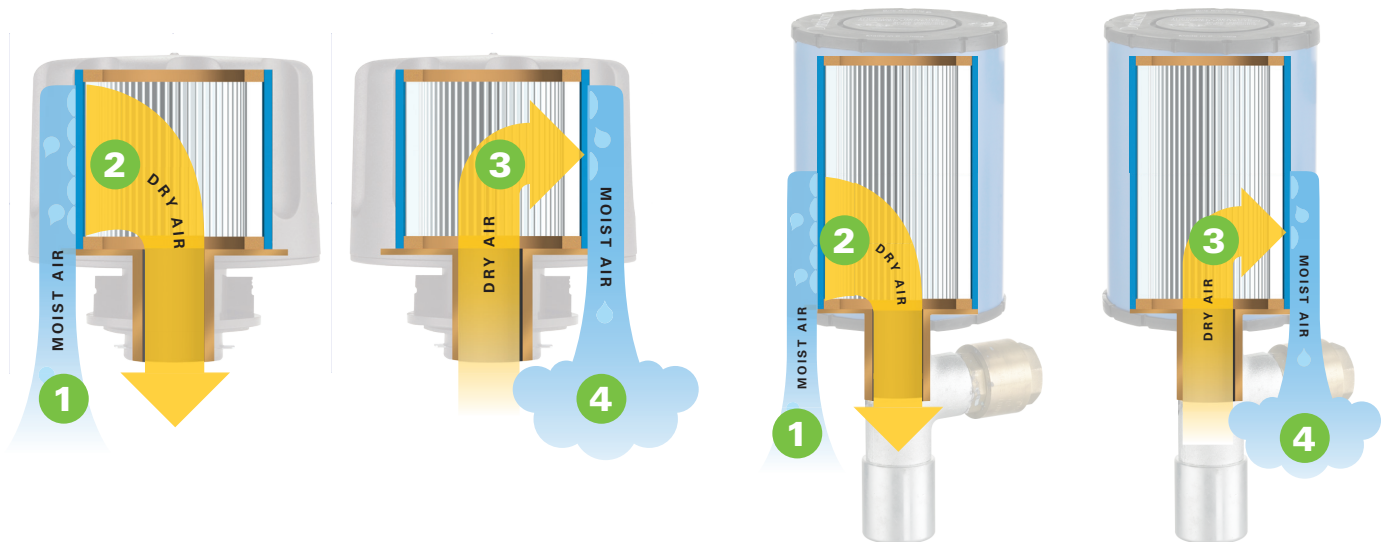
T.R.A.P.™ breathers from Donaldson are the only breathers on the market that literally strip moisture vapour from intake air and expel the moisture back to the atmosphere on the outflow cycle. The filter continuously regenerates its water holding capacity.

## Benefits

- Provide fast-acting protection for hydraulic reservoirs against airborne moisture and particulate contamination
- Easy to install, simply hand tighten
- Rugged, durable design
- Robust housing protects media

## Features

- Filter out solid particulate down to 3µm at 98% efficiency
- Prevent moisture from entering the reservoir
- Water-holding capacity is regenerated with every oil return phase for long service life.
- Operating temperature -40°C to 93°



- 1** The circuit "breathes in" air containing moisture vapour.
- 2** The T.R.A.P.™ breather strips moisture and particulate from the incoming air, allowing only clean, 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.



Donaldson Australasia Pty Ltd  
Wyong, NSW, 2259

1800 FILTER (Australia)

[www.donaldson.com](http://www.donaldson.com)

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Donaldson New Zealand Pty Ltd  
Auckland, New Zealand, 1741

+64 9 579 2790 (NZ)