



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: 55.4  
Diameter: 41.9  
Efficiency: 3µm @ 98%



**P567390**  
**Glass-filled nylon**  
3/8" NPT  
Total Height: 55.4  
Diameter: 41.9  
Efficiency: 3µm @ 98%



**P567392**  
**Glass-filled nylon**  
1/4" NPT  
Total Height: 55.4  
Diameter: 41.9  
Efficiency: 3µm @ 98%

## Airflow 200lpm

### Anti-rollover Valve



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



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



**P766646**  
**Glass-filled nylon**  
1" BSP  
Total Height: 72.1  
Diameter: 80.8  
Efficiency: 10µm @ 98%

### Pressurisation Valve



**P767023**  
**Glass-filled nylon**  
1/2" BSP  
Total Height: 62  
Diameter: 72.5  
Pressure: 40kPa/5.8psi  
Efficiency: 10µm @ 98%



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



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

## Airflow 300lpm

### Medium



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



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



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

# T.R.A.P.™ Breathers

## Airflow 708lpm

### Metal



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



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



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

## Airflow 1,274lpm

### Large



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



**P564669¹**  
**Glass-filled ABS**  
 1" NPT  
 Total Height: 115.1  
 Diameter: 114.3  
 Efficiency: 3µm @ 98%

LED Indicator



**P565616¹**  
**Glass-filled ABS**  
 Bayonet  
 Total Height: 167.6  
 Diameter: 114.3  
 Efficiency: 3µm @ 98%

LED Indicator



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

## Airflow 1,893lpm

### X-Large



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



**DFF0078²**  
**Brass, Urethane**  
 1 1/2" BSP(f)  
 Total Height: 350  
 Maximum Width: 230  
 Relief Valve Set: 22.3kPa/3.23 PSI

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

² Includes visual indicator

# Moisture Meets it Match

## How it Works

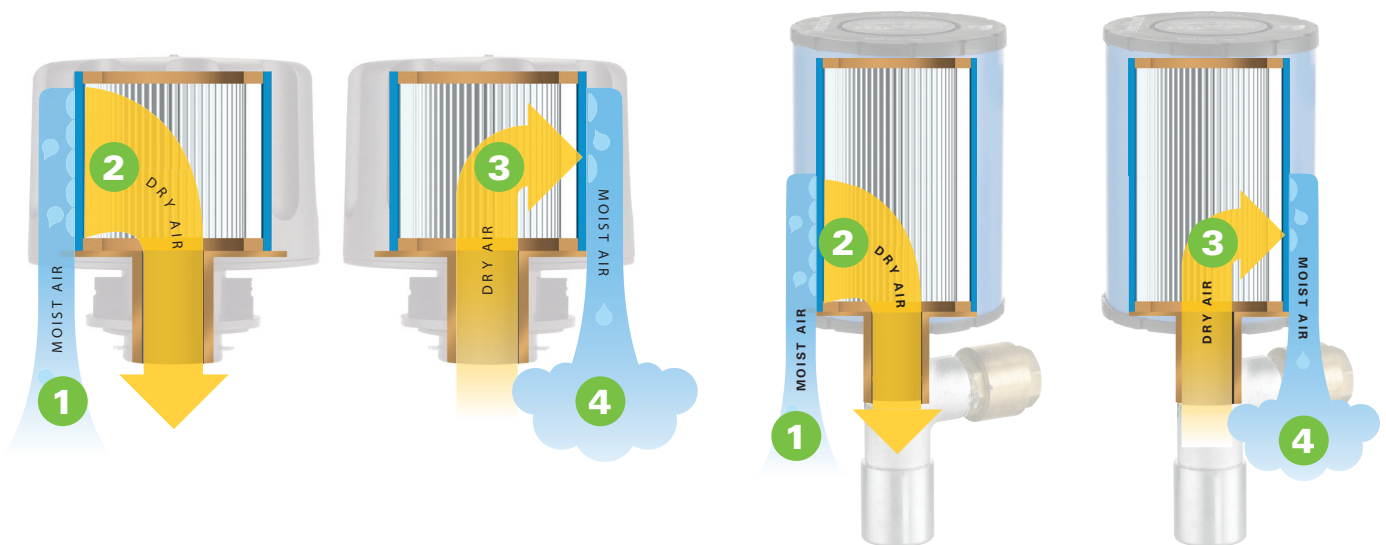
T.R.A.P.™ breathers from Donaldson are the only breathers on the market that literally strip moisture vapour from intake air and expel the moisture back to the atmosphere on the outflow cycle. The filter continuously regenerates its water holding capacity.

## 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.



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