Donaldson
FILTRATION SOLUTIONS

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.™ THERMALLY REACTIVE ADVANCED PROTECTION

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%

P564669[1]
Glass-filled ABS
1" NPT
Total Height: 115.1
Diameter: 114.3
Efficiency: 3µm @ 98%

P565616[1]
Glass-filled ABS
Bayonet
Total Height: 167.6
Diameter: 114.3
Efficiency: 3µm @ 98%

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%

DFF0078[2]
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

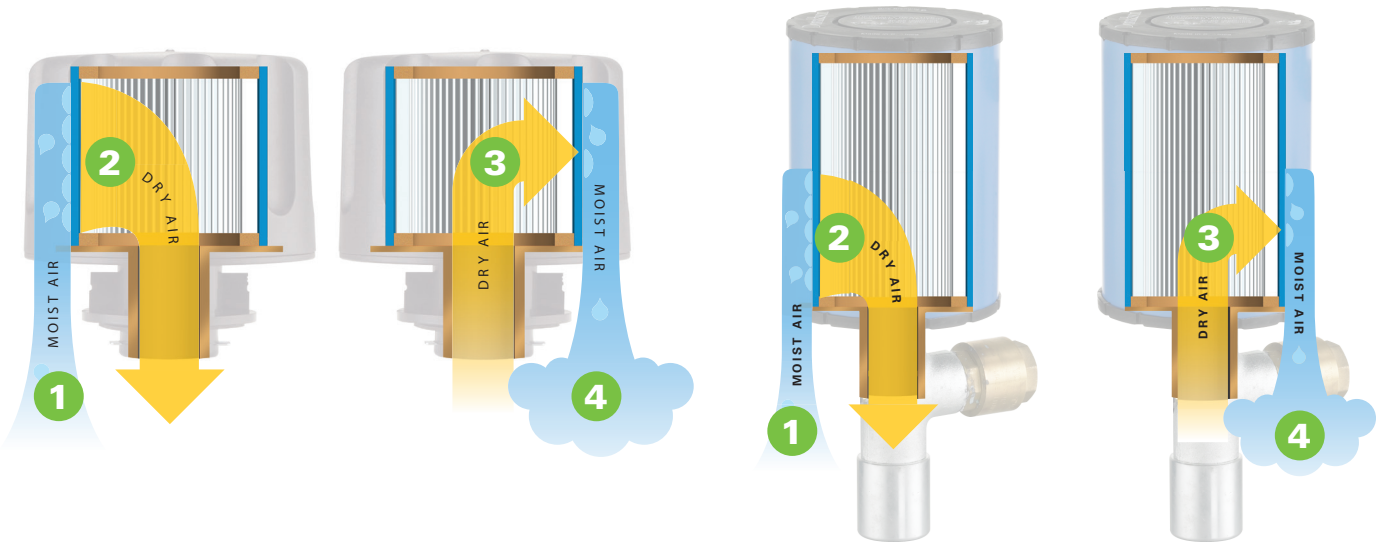
T.R.A.P.™ breathers from Donaldson are the only breathers on the market that literally strip moisture vapour from intake air and expel the moisture back to the atmosphere on the outflow cycle. The filter continuously regenerates its water holding capacity.

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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