



## Proactive Maintenance

### P/N 894276

#### fluid analysis service

A fluid analysis report that is easy to read and understand.

Fluid is the “Lifeblood” of every hydraulic system. A sample can pinpoint sources of contamination.

#### Features/Benefits:

- Comprehensive, yet easy-to-read analysis laboratory fluid analysis
- Particle Count
- Water Content
- TAN/PH
- Viscosity

- Microscopy
- XRF (use P/N 894277 to include ICP)
- Avoid Equipment Failure
- Optimize Performance
- Verify Filtration is working
- Extend Component Life

Part Number: 894276

### P/N BR210

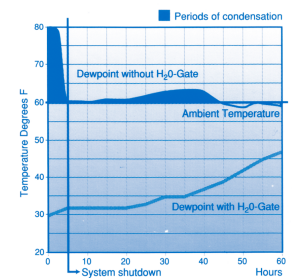
#### dirt-gate™ reservoir breather

Filters out airborne particles before it contaminates the oil.

Hydraulic reservoirs “breathe” air in and out as the oil level rises and falls. This air contains particles. Particles “sand blast” your machinery. Protect your hydraulic system with a dirt-gate filter.

#### Features/Benefits:

- **Visual Mechanical Indicator:** The indicator actuates when particles have blocked the media, before the pump cavitates.
- **Easy Installation:** Lightweight design; only needs to be hand tightened onto adapter.
- **Rugged Housing:** Protects the media from external splashing.
- **High Efficiency:** (99% at 2 microns)
- **Very Low Pressure Drop**



**Works even when the system is shut down. See the following page for a detailed explanation of how it works.**

Part Number: BR210

# H<sub>2</sub>O-gate™ reservoir breather



Filters out particles and moisture before it contaminates the oil.

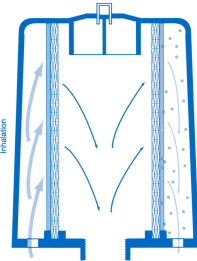
Hydraulic reservoirs “breathe” air in and out as the oil level rises and falls. This air contains particles and water. Particles “sand blast” your machinery and water attacks your oil and components. The H<sub>2</sub>O-gate reservoir breather filters out particles and moisture. Protect your hydraulic system with a filter.

**Part Numbers:**

- H<sub>2</sub>O-gate **BR110**
- Bayonet Adapter **924710**
- Screw-in Adapter **P-077002**

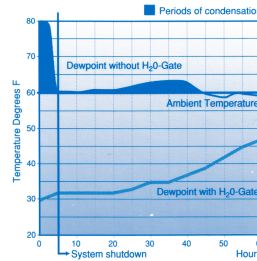
**Features/Benefits:**

- **Visual Mechanical Indicator:** The indicator actuates when particles have blocked the media, before the pump cavitates.
- **Proprietary Media:** Reduces dew point temperature to prevent condensation and is 99.7% efficient in blocking particles 3µ and larger.
- **Reversible Flow Through Media:** Allows for moisture to exit the reservoir.
- **Easy Installation:** Lightweight design; only needs to be hand tightened onto adapter.
- **Rugged Housing:** Protects the media from external splashing.



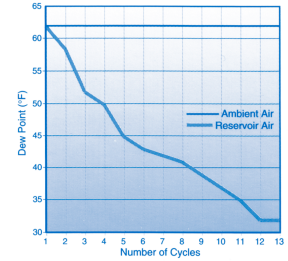
**Performs as a gate**

During the “inhalation” cycle, the H<sub>2</sub>O-gate proprietary media blocks the water vapor from entering the reservoir. During the “exhalation” cycle, the media allows the moisture in the reservoir air to exit. The moisture is carried off the media by the exiting air, restoring the media’s water barrier capacity, and the moisture barrier mechanism is not affected by the amount of exposure to moisture. The reservoir air is maintained at a low relative humidity, and more importantly, at a lower dew point temperature than the ambient temperature.



**Works even when the system is shut down.**

The H<sub>2</sub>O-gate Vent Breather retards the vapor equilibrium process and works to prevent condensation even after the system is shut and cooled down, such as overnight. As this chart illustrates, the dewpoint is slow to climb, even after the system temperature has dropped to the ambient temperature. Once the system has reached ambient temperature, condensation does not occur.



**Reduces humidity inside reservoir.**

The H<sub>2</sub>O-gate Vent Breather lowers and stabilizes the relative humidity of air inside the reservoir, leading to a lower dewpoint (T<sub>dewpoint</sub> < T<sub>ambient</sub> = NO CONDENSATION) at a rate and amount that will be dependent upon several conditions: the ambient conditions, the internal reservoir heat, amount and frequency of reservoir air flow through the vent, and the temperature of the reservoir surfaces.

Eaton  
14615 Lone Oak Road  
Eden Prairie, MN 55344  
USA  
Tel: 952 937-9800  
Fax: 952 974-7722  
www.hydraulics.eaton.com

Eaton  
20 Rosamond Road  
Footscray  
Victoria 3011  
Australia  
Tel: (61) 3 9319 8222  
Fax: (61) 3 9318 5714

Eaton  
Dr.-Reckeweg-Str. 1  
D-76532 Baden-Baden  
Germany  
Tel: (49) 7221 682-0  
Fax: (49) 7221 682-788

