FAT-N Vickers

Mobile Gate

MBR110



Part Number: 5002486

Filler Breather Assemblies

Mobile-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 Mobile-gate reservoir breather filters out particles and moisture. Protect your hydraulic system with a filter.

Features/Benefits:

- Proprietary Media:
 Reduces dew point temperature to prevent condensation and is 99.7% efficient in blocking particles 10u and larger.
- Water Regeneration: Regenerates its water holding capacity with each cycle.
- Reversible Flow Through Media: Allows for moisture to exit the reservoir.
- Easy Installation: Lightweight design; only needs to be hand tightened.
- Rugged Housing: Protects the media from external splashing.

Eaton Mobile-gate™

Breather Assemblies provide low cost, high efficiency protection against airborne moisture and particulate contamination. Patented technology eliminates moisture condensation in hydraulic system reservoirs. Moisture is prevented from entering and is actually "pumped" out with each flow cycle. The media regenerates its water holding capacity with every oil return phase, ensuring long service life.

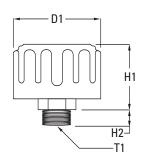
MBR120

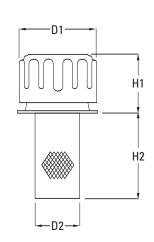


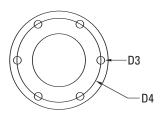
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SPECIFICATIONS

PART NUMBER	FLOW		DIMEN	DIMENSIONS (in)						
	gpm	lpm	D1	D2	D3	D4	H1	H2	T1	
MBR110	125	475	3.08	-	-		2.33	0.63	NPT 3/4	
MBR120	125	475	3.08	1.88	0.25	2.81	2.50	3.50	-	

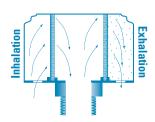






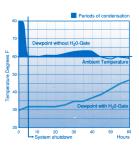
Part Numbers:

NPT Mobile-gate Flange Mobile-gate MBR110 MBR120



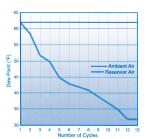
Performs as a gate

During the "inhalation" cycle, the Mobile-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 Mobile-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 Mobile-gate Vent
Breather lowers and stabilizes
the relative humidity of air
inside the reservoir, leading to
a lower dewpoint (Tdewpoint
< Tambient = 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.

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