

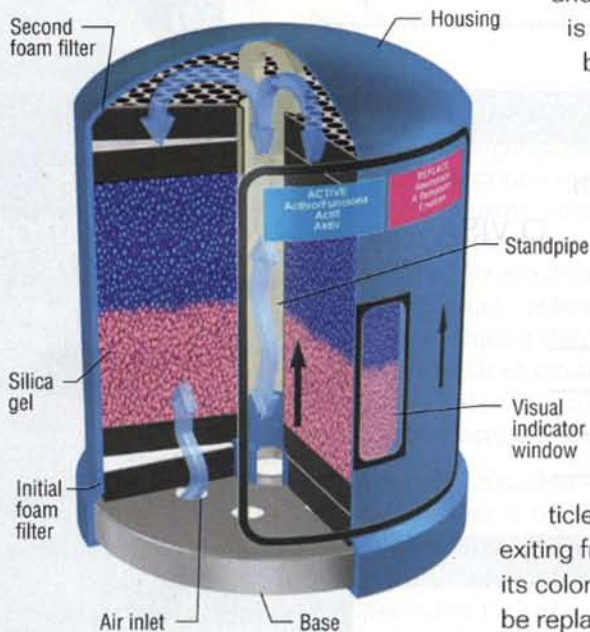
# Rugged Breathers

## Offer Multi-layer Filtration

Reservoir breathers provide a path for air to enter and leave a tank as its fluid level rises and lowers during system operation. They let the reservoir inhale and exhale. Many breathers also include filters to exclude solid contaminant particles, oil mist, and water vapor from the fluid.

The disposable DC/DS-6 breather from Des-Case has a rugged metal housing that survives in harsh environments — such as mobile and nautical applications — and withstands temperatures as high as 250° F. The base plate and central standpipe are stainless steel; the housing is molded aluminum, powder-coated with epoxy. The base is fitted with eight vent plugs that can be selectively removed to match inlet-air flow to the system's requirement. Ambient air enters through the vents, passes through a multi-tiered filter, and flows into (and out of) the reservoir via the standpipe. The standpipe channels all air flow through the filter; there is no bypass.

The filter consists of an initial foam layer that diffuses the incoming air and captures any ambient oil mist, a layer of microglass to capture incoming particulate, a large bed of silica-gel desiccant to adsorb water, a second microglass layer to block migration of desiccant particles, and a final foam layer that captures any oil mist exiting from the tank. As the silica gel becomes saturated, its color changes from blue to pink, signaling that it should be replaced. A pair of visual indicator windows — diametrically opposite on the breather housing — simplify monitoring the silica gel's condition.



### Spec sheet: DC/DS-6 breather

Height: 6.5 in.  
 Diameter: 5.0 in.  
 Filtration area: 38 in.<sup>2</sup>  
 Filtration level: 1 µm absolute  
 Maximum flow rate: 20 cfm @ 1.5 psid  
 Amount of silica gel: 24 oz  
 Adsorption capacity: 9 fl. oz

### Make contact:

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