

# BREATHERS & FILLER BREATHERS

## DES-CASE

### Attack the cause of oil contamination

Industry spends millions of dollars annually treating the negative effects of oil contamination. Des-Case Breather attacks the cause as opposed to treating the problem of contamination.

Designed and developed by filtration engineers, the hygroscopic breather is a unique, patented air filter and water vapor removal system. It will virtually eliminate moisture and particulate contamination in industrial equipment reservoirs such as hydraulic tanks and gear boxes.

### Unique Filtration Process

Moisture and particulate accumulation are major factors of oil contamination in industrial equipment. Neglected, these detriments restrict equipment efficiency, causing machine downtime and significant expense in replacement oil, parts and repair labor.

Des-Case breathers incorporate a proven, field tested design. They prevent water and contaminants from entering fluid reservoirs as differential pressures occur through thermal expansion and contraction of the fluid, or during the filling or emptying process.

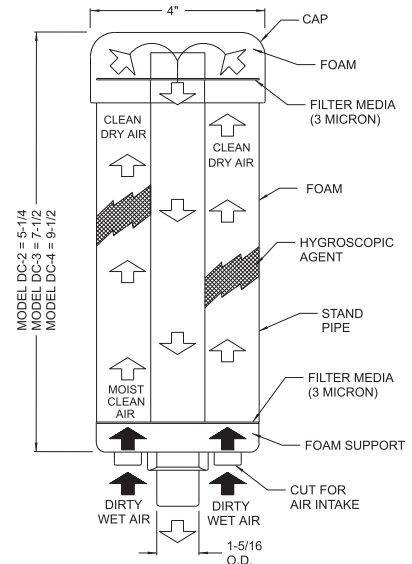
Manufactured with a hygroscopic agent, Des-Case breathers utilize the entire filter area, and have the capability of extracting water vapor from the air as it is drawn through the unit. Accompanying solid particulate is then removed by a patented polyester fabric filter, allowing only clean, dry air to enter the system.

### Change to Des-Case™ for Maximum Machine Performance

Hygroscopic breather elements are state-of-the-art in design and function, and are industry's best choice for assuring maximum machine performance.

Des-Case offers these cost-saving benefits:

- Elimination of water-contaminated oil which leads to additive stripping
- Less abrasive particles to prolong machine operating life
- Elimination of rust-forming condensation
- Longer oil and oil filter life
- Elimination of sludge deposits



### Resilient Construction...Multiple Applications

Every Des-Case hygroscopic breather is manufactured in a durable, shock absorbing clear plastic casing with resilient qualities to withstand the customary abuse associated with heavy manufacturing equipment. The units are disposable, and are manufactured entirely of environmentally safe components.

Des-Case disposable hygroscopic breathers are manufactured in three sizes DC2, DC3, and DC4 to accommodate different mounting space requirements. All three models are rated for 20 cfm of air in and out of the tank or reservoir (the equivalent of 150 gpm fluid level change in the reservoir). The patented air flow design produces a partial regeneration of the hygroscopic agent and a back flushing (cleaning) of the particulate filter when the air leaves the reservoir.

### Color Visually Indicates Unit Condition

To activate the unit, the protruding air intake nipples must be opened. The more nipples cut, the greater the breathing capacity.

Every Des-Case breather will remain effective as long as the hygroscopic agent's color in the transparent unit remains **BLUE**. A light **PINK** color indicates 100% saturation and the need to replace the unit.

### Low Unit Cost...Long Shelf Life... Varied Industrial and Commercial Applications

Des-Case hygroscopic breathers are readily available and the modest price of these units is insignificant when compared to the costs associated with machine down time, replacement parts and labor. Each Des-Case breather is packaged and shipped in an airtight container for long-lasting shelf life.

Manufactured in the U.S.A., Des-Case units have excellent field test records and are utilized in a wide range of industries- food processing, automotive manufacturing, paper mills, transportation, robotics, power generation and many more.

### Design Flexibility Permits Easy Installation Regardless of Equipment Location

Des-Case hygroscopic breathers are designed for installation on most equipment regardless of location. For installation in difficult areas, Des-Case offers (2) mounting options for ease of installation and unit maintenance.

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

02/14

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Des-Case's desiccant breathers incorporate a high-efficiency filter to help sustain cleanliness levels by preventing the ingress of even minute particulate matter. Water adsorbing silica gel creates low relative humidity levels in the headspace to make condensation and absorption by the lubricant unlikely.

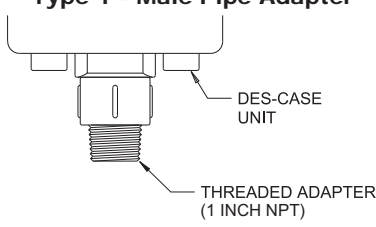
### Standard Features:

- 1 inch NPT or bayonet flange adapter
- Multi-tiered filtration process
- Filter element captures particles at 3-micron absolute
- Filter media changes color to indicate need for replacement
- Rated for 20 CFM

### Standard Materials:

- Nylon standpipe
- Clear Polycarbonate casing
- Silica gel hydrophilic agent
- Polyester filter

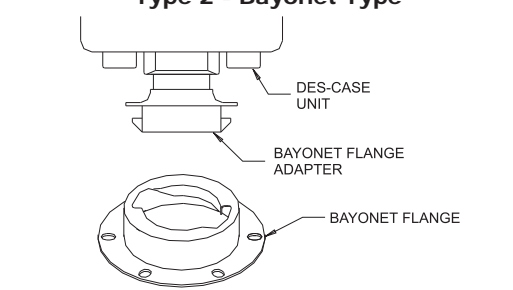
**Type 1 - Male Pipe Adapter**



**Ordering Information**

Part No.	Description
DC-2-1	DC2 Breather with 1 inch Adapter
DC-3-1	DC3 Breather with 1 inch Adapter
DC-4-1	DC4 Breather with 1 inch Adapter

**Type 2 - Bayonet Type**



**Ordering Information**

Part No.	Description
DC-2-B	DC2 Breather w/Bayonet Flange Adapter Assembly
DC-3-B	DC3 Breather w/Bayonet Flange Adapter Assembly
DC-4-B	DC4 Breather w/Bayonet Flange Adapter Assembly



DES-CASE Basic Specifications									
Type 1 Male Pipe Adapter Part No.	Type 2 Bayonet Part No.	Body Material	Unit Height inches (cm)	Diameter inches (cm)	Absorbance Capacity	Operating Temp.	Silica Gel Amount	Cap	Shipping Weight (unit/case)
DC-2-1	DC-2-B	Polycarbonate and Nylon	6.125 (15.56)	4.00 (10.16)	0.13 L	-20F° to 200F° (-29C° to 93C°)	11 oz	Black	1 lb 3 oz / 9 lbs
DC-3-1	DC-3-B		8.125 (20.64)		0.23 L		1 lb 4 oz	Blue	1 lb 12 oz / 11 lbs 8 oz
DC-4-1	DC-4-B		10.125 (25.72)		0.35 L		1 lb 14 oz	White	2 lbs 7 oz / 16 lbs

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