



# E Z Dri Breathers

Defends against moisture and particulate contamination



ENGINEERING YOUR SUCCESS.

# E Z Dri Breathers

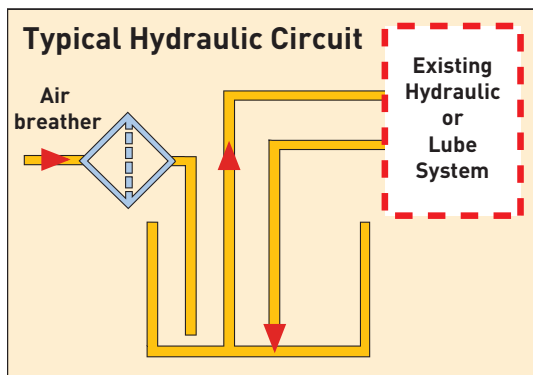
## Applications

- Reservoirs
- Mobile Equipment
- Small Gearboxes
- Transformers
- Storage Tanks
- Totes
- 55 Gallon Drums



Atmospheric ingress of air borne contaminants are key contributors to hydraulic, circulating oil and splash lubrication systems. As temperature fluctuates or fluids are displaced, systems draw air into the fluid reservoir. The reservoir breather becomes a critical barrier to solid contaminants and water vapor. Conversely, when fluids return to the fluid reservoir, air exhausts to the environment.

E Z Dri breathers provide contamination control in these critical areas. Water vapor is captured through the use of highly efficient zeolite desiccant. Solid contaminants are removed to 3µ through a series of high efficiency particulate filters. The production environment and plant personnel are safe from hydrocarbon vapors, during air exhaust, with the aid of an activated carbon filter.



## Features

- ZEOLITE adsorbent maximizes water adsorption capacity, less than 100 ppm H<sub>2</sub>O
- Optimal flow via diffusion filters
- Multi-layer filtration - (2) diffusion filters, activated carbon, 3µ PTFE filter, 100µ stainless steel filter
- ZEOLITE thermal efficiency (efficient at all temps.)
- Diffusion cap - replaces use of valves to control air flow, allows for long term storage
- Flexibility - 1" slip fit adapters
- UV resistant to prevent discoloring
- Oil Mist Coalescer Manifold Adapter (OMCOL)
- Easy visible color indication of spent adsorbent

### Bi-directional Air Flow

Air entering the breather is filtered and dried. Air expelled through the breather is filter through an activated carbon filter, prolonging the life of the breather.

### Rugged construction

E Z Dri breathers are made of hard PVC plastic and UV resistant polycarbonate tube.

### ZEOLITE adsorbent

ZEOLITE adsorbent provides up to 28% by weight adsorption and provides clean dry air less than 100 PPM. ZEOLITE also maintains performance in high temperature environments, unlike Silica Gel.

### Multi-layer filtration

All E Z Dri breathers features (2) diffusion filters, an activated carbon filter, 3µ PTFE filter, and 100µ stainless steel filter

### Diffusion technology

The diffusion cap replaces the need for mechanical valves to control air flow. The breathers will only breathe over 0.3 PSI

### Application flexibility

E Z Dri breathers feature a standard 1" slip fit which easily adapts to many applications.

### Color Indication

When maximum adsorption is reached, the blue indicating ZEOLITE beads will turn from blue to beige, to indicate that a replacement is required.

# Reservoir Accessories

## Specifications

### General Data

	934330	934331	934332	941655
<b>Amount of ZEOLITE</b>	376 g	604 g	822 g	722 g
	16.3 oz	21.3 oz	28.9 oz	25.5 g
<b>Adsorption Capacity</b>	52.6 g	84.6 g	115.1 g	101.1 g
	1.86 oz	2.98 oz	4.06 oz	3.57 oz
<b>Net Weight of Unit</b>	700 g	980 g	1255 g	1294 g
	1.5 lbs	2.2 lbs	2.7 lbs	2.85 lbs
<b>Filtration Area</b>	8.4 in <sup>2</sup> / 54.2 cm <sup>2</sup>	8.4 in <sup>2</sup> / 54.2 cm <sup>2</sup>	8.4 in <sup>2</sup> / 54.2 cm <sup>2</sup>	8.4 in <sup>2</sup> / 54.2 cm <sup>2</sup>
<b>Direction of Flow</b>	Bidirectional	Bidirectional	Bidirectional	Bidirectional
<b>Operating Temperature Range</b>	-40°F to 302°F / -40°C to 150°C	-40°F to 302°F / -40°C to 150°C	-40°F to 302°F / -40°C to 150°C	-40°F to 302°F / -40°C to 150°C

### Hygroscopic Agent (Zeolite)

<b>Apparent Bulk Density</b>	700 - 800 kg/m <sup>3</sup>
<b>Average Particle Diameter</b>	0.145" / 3.68 mm
<b>Specific Heat</b>	0.25 BTU/lb. F
<b>Nominal Mesh Range</b>	4 x 8
<b>Average Crush Strength</b>	35 lbs. / 15.9 kg

### Unit Material Data

<b>Material</b>	UV Resistant Polycarbonate
<b>Maximum Operating Temperature</b>	302°F / 150°C
<b>Melting Point</b>	320°F / 160°C
<b>Check Valve Adapter</b>	Zinc Plated Steel

### Filter Media

<b>Material</b>	EPTFE
<b>Porosity</b>	3.5 - 7.5 Ft./min. @ 0.5 in. - H <sub>2</sub> O (ASTM D 737)
<b>Air Filtration Efficiency</b>	99.97% @ 0.3μ (IES-RP-CC021.1)

# E Z Dri Breathers

## Desiccant Type

### Specifications

**Materials:**

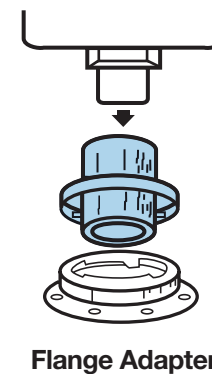
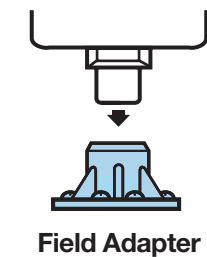
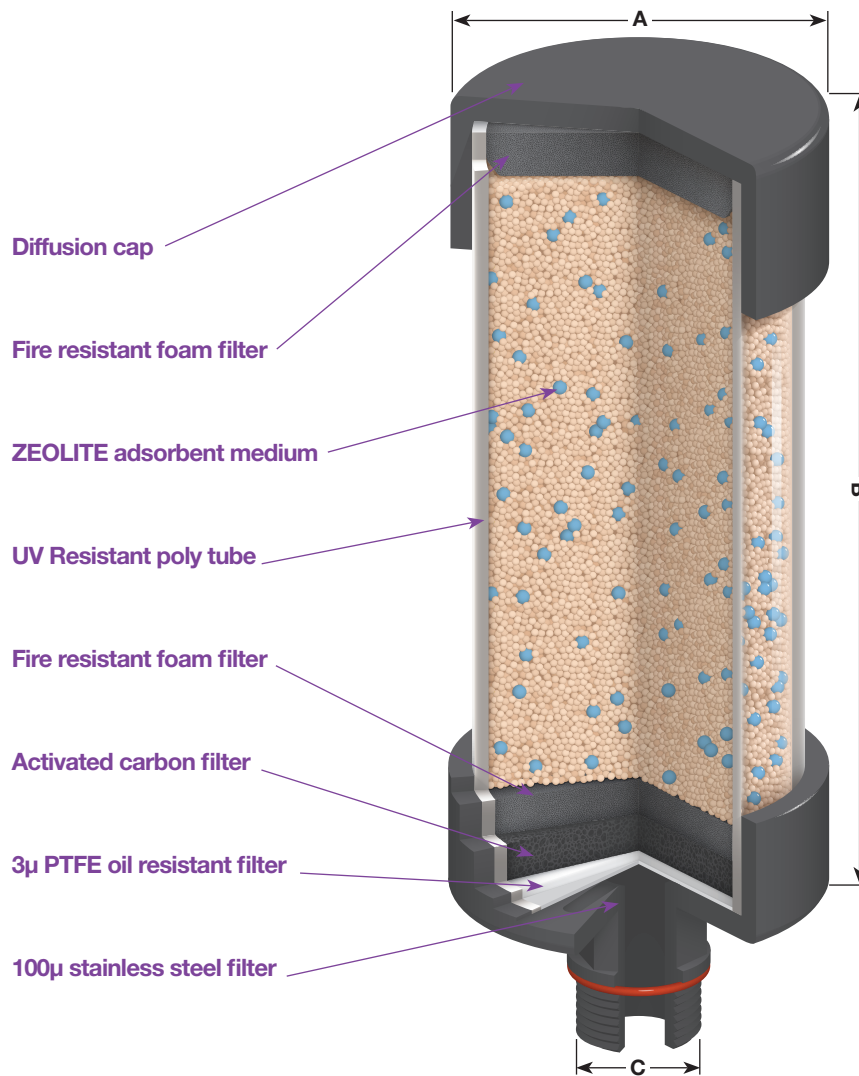
Casing: PVC plastic

Stand pipe: UV resistant polycarbonate tube

**Multi-layer Filtration:** 2 diffusion filters, activated carbon filter, 3µ PTFE filter, 100µ stainless steel filter

**Operating Temperatures:** -40°F (-40°C) to 302°F (150°C)

**Seals:** None



Part Number	A (in/mm)	B (in/mm)	C	Qty
934330	3.87 / 98.3	5 / 127	1" NPT thread	6 pcs
934331	3.87 / 8.3	7 / 177.8	1" NPT thread	6 pcs
934332	3.87 / 98.3	9 / 228.6	1" NPT thread	6 pcs

Part Number	Description	Qty
937546	Field Adapter	1 pc
937463	Flange Adapter	1 pc

Drawings are for reference only. Contact factory for current version.

# Reservoir Accessories

## Mobile Triceptor

### Specifications

**Materials:**

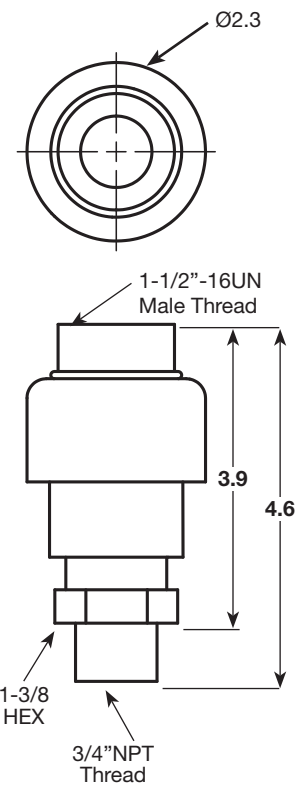
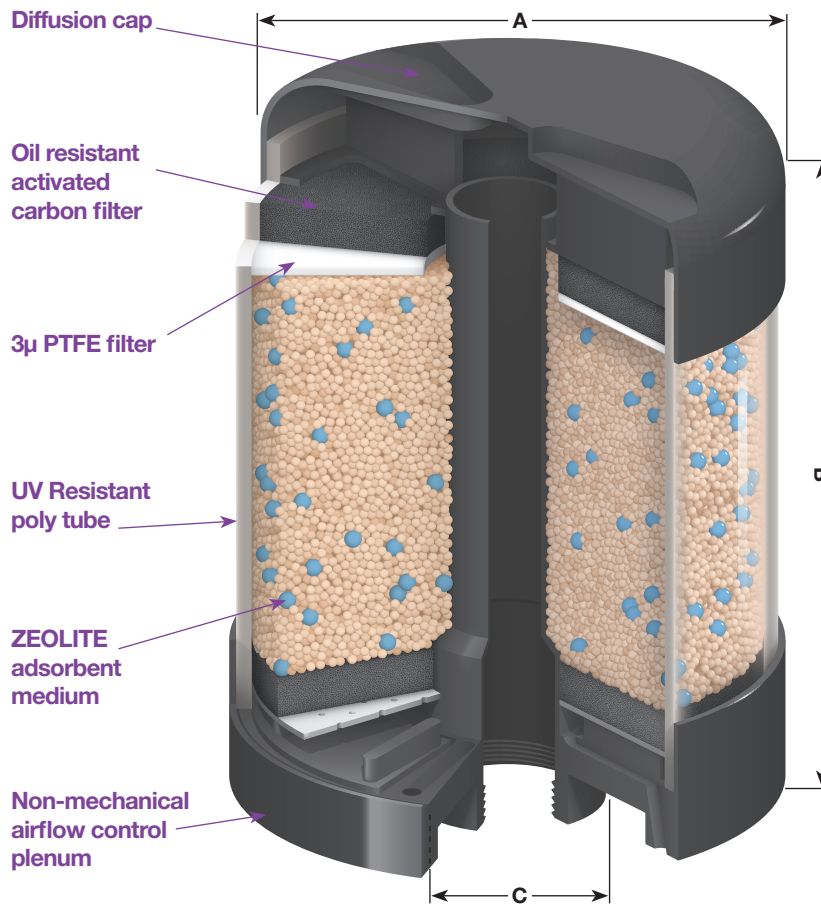
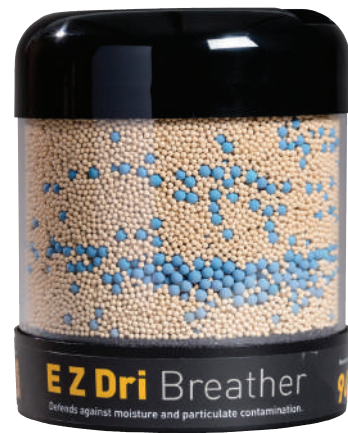
Casing: PVC plastic

Stand pipe: UV resistant polycarbonate tube

**Multi-layer Filtration:** 2 diffusion filters, activated carbon filter, 3µ PTFE filter, 100µ stainless steel filter

**Operating Temperatures:** -40°F (-40°C) to 302°F (150°C)

**Seals:** None



**3/4" NPT Vent Valve Adapter**

Prolongs breather life by diverting air exhausting from reservoir away from desiccant bed.

For mobile applications where oil sloshing can occur, it prevents oil coating desiccant bed. Resulting in diminished performance of the breather's water absorption efficiency.

Part Number	A (in/mm)	B (in/mm)	C	Qty
941655	5.25 / 133.4	6.17 / 156.7	1.5" NPT thread	1 pc*

\* Must be ordered in multiples of six (6).

Part Number	Description	Qty
946056	Vent Valve Adapter	1 pc

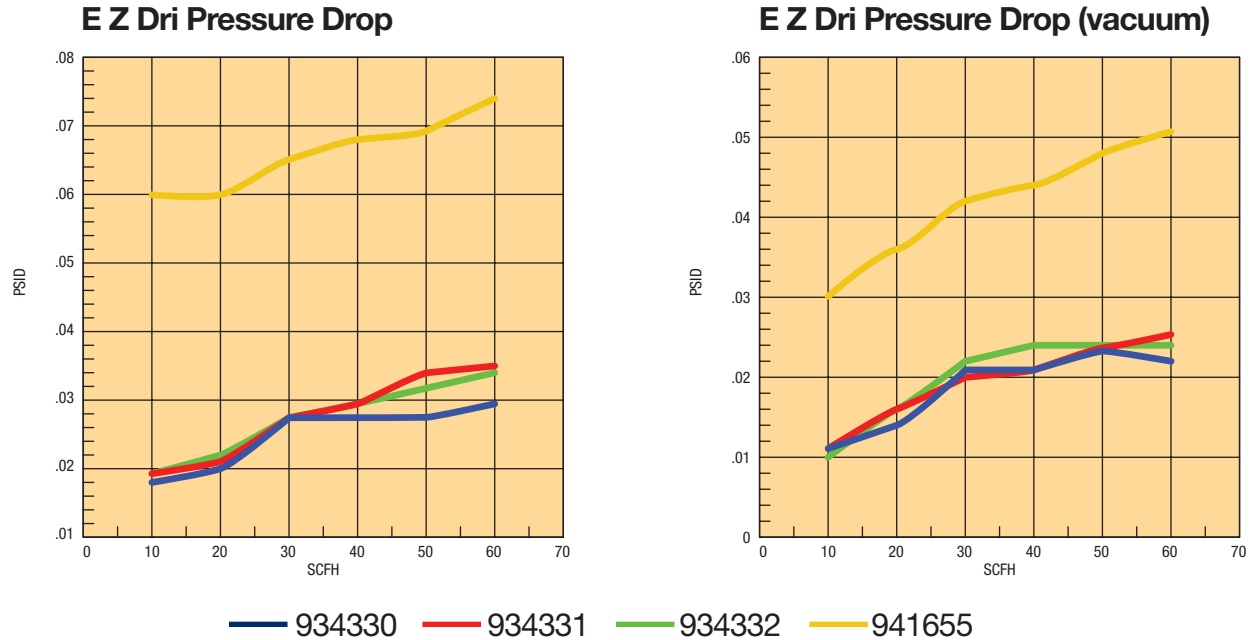
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# Reservoir Accessories

## Performance

### Air Flow Performance

The curves below show the air flow performance of the E Z Dri breathers. To insure the longest life possible, the initial clean pressure drop should not exceed 1.5 psid (.103 bar).



## Maintenance

E Z Dri breathers are designed for simple installation on most equipment, regardless of mounting connection. Since E Z Dri breathers are disposable, the threaded connection allows for quick and easy maintenance. Several mounting adapters (see page 4) are available to provide the desired mounting. The installation/replacement process consists of three easy steps:



Active

Replace

### Installation

1. Remove breather from plastic bag
2. Remove safety cap from standpipe at the bottom of the breather
3. Mount the breather to the tank or reservoir using the adapter best suited for the application

### Disposal

1. Verify that the breather is fully saturated – \*all blue beads will be beige in color
2. Remove breather from gearbox, tank, reservoir, or other application
3. Remove and save the adapter fitting to be used with a new breather
4. Verify and dispose of breather in accordance with your state and local environmental control regulations

### Recommendations

1. Replace spin on air filter vents, turn down pipes, or vent caps with E Z Dri disposable desiccant breathers for additional protection against contaminants.
2. Inspecting your breather every 6 months.
3. Add breather replacements to plant operations & maintenance schedules

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