

## ACM / ACL Series Breathers

The ACM / ACL Series is suitable for mobile and industrial applications because of its lightweight, rugged body. This series is fully serviceable and offers a high dirt holding capacity.



### ORDERING CODES:

BOX 1		BOX 2		BOX 3	
Series [Box 1]		Drying Agent [Box 2]		Check Valves [Box 3]	
Code	Description	Code	Description	Code	Description
ACM61	100 cc	R	ZR Gel	V	With Check Valves
ACL93	300 cc			-	Without Check Valves
ACL96	600 cc				

(ACM61R includes check valves)

### MATERIALS & COMPONENTS:

- **Filter Media:** Glass Fiber
- **Hydrophilic Media:** ZR Gel
- **All Other Components:** Copolyester, Buna-N, Stainless steel

### CHEMICAL COMPATIBILITY:

Compatible with all mineral oils, most synthetic oils and diesel fuels (Contact Des-Case technical support for chemical compatibility inquiries)

### <sup>1</sup>PERFORMANCE SPECIFICATIONS:

Product Code	61 Series	93 Series	96 Series
<b>Temperature Range</b>	-40°F to 194°F (-40°C to 90°C)		
<b>Filter Efficiency</b>	3 μm absolute ( β <sub>3</sub> ≥ 200)		
<b>Adsorption Material</b>	ZR Gel 3-6 mm		
<b>ZR Gel Volume</b>	100 cc	300 cc	600 cc
<b>Amount of Desiccant</b>	.2 lbs (80 g)	.5 lbs (230 g)	1 lbs (460 g)
<b>Water Adsorption Capacity</b> (Maximum Water Retention)	0.9 fl. oz (29 ml)	2.8 fl. oz (86 ml)	5.5 fl. oz (172 ml)
<b>Color Indication</b>	Red to Yellow		
<b>Check Valve Cracking Pressure</b> (For order codes ending in "V")	.15 psi (.01 bar)		
<b><sup>2</sup>Application Sizing Recommendations</b>			
<b>Max. Airflow without Check Valves</b>	N/A	24.7 cfm (700 l/min)	24.7 cfm (700 l/min)
<b>Max. Airflow with Check Valves</b>	1.8 cfm (50 l/min)	10.6 cfm (300 l/min)	10.6 cfm (300 l/min)

<sup>1</sup>NOTE: Small variations in the manufacturing process can be common and will be within the allowable engineering tolerances.

<sup>2</sup>NOTE: This is intended as a general guideline for sizing only; other considerations, such as: humidity level, frequency of air flow, ambient temperatures, and chemical compatibility are very important in sizing a breather properly. Larger applications and special circumstances typically require the most thorough analysis. Please contact Des-Case for assistance in sizing a breather.

### Typical Applications:

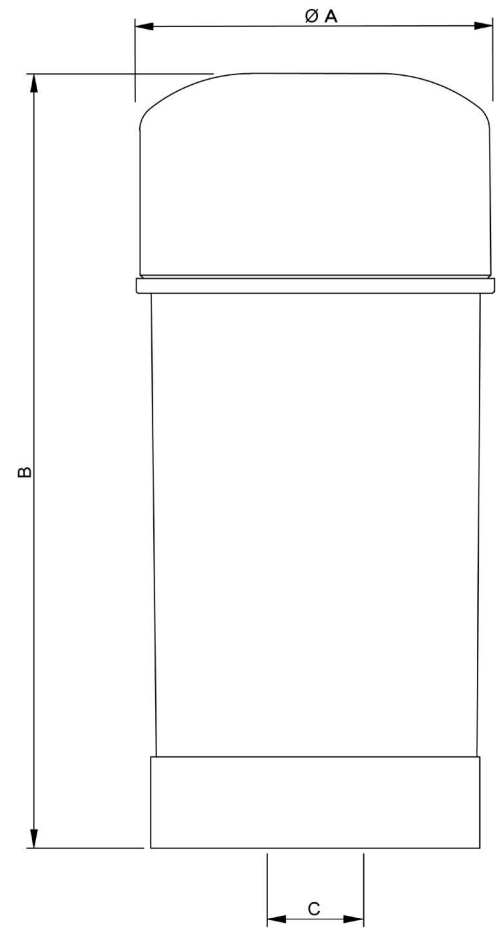
- Mobile & off-road equipment
- Hydraulics
- Nautical applications
- Truck differentials

### Typical Industries:

- Wind Energy
- Storage
- Pulp & Paper
- Mining
- Aviation
- Manufacturing
- Petrochemical

### DIMENSIONS:

	A	B
<b>Series</b>	Inch / mm	Inch / mm
<b>61</b>	2.8 / 71	5.4 / 137
<b>93</b>	3.9 / 98	6 / 152
<b>96</b>	3.9 / 98	8.3 / 211
<b>Thread Size (C)</b>		
<b>ACM 61</b>	3/8" BSP female	
<b>ACL 93 &amp; 96</b>	3/4" BSP female	



### SPARE PARTS:

Product Spare Parts	ACM61	ACL93	ACL96
<b>KL Spin-On</b>	KL60 (9237734)	KL90 (9331034)	
<b>ZR Gel Refill</b>	100 cc / RF-100 (9253184)	300 cc / RF-300 (9331156)	600 cc / RF-600 (9331155)
<b>Spare Kit*</b>	RK-61 (9253193)	RK-93 (9318115)	RK-96 (9318116)

\*The spare kit contains 1x KL Spin-On, 1x ZR Gel refill, 2x foam filters, 1x bottom seal stickers, 1x adapter plug.