

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)

¹PERFORMANCE SPECIFICATIONS:

Product Code	61 Series	93 Series	96 Series
Temperature Range	-40°F to 194°F (-40°C to 90°C)		
Filter Efficiency	3 μm absolute (β ₃ ≥ 200)		
Adsorption Material	ZR Gel 3-6 mm		
ZR Gel Volume	100 cc	300 cc	600 cc
Amount of Desiccant	.2 lbs (80 g)	.5 lbs (230 g)	1 lbs (460 g)
Water Adsorption Capacity (Maximum Water Retention)	0.9 fl. oz (29 ml)	2.8 fl. oz (86 ml)	5.5 fl. oz (172 ml)
Color Indication	Red to Yellow		
Check Valve Cracking Pressure (For order codes ending in "V")	.15 psi (.01 bar)		
²Application Sizing Recommendations			
Max. Airflow at ΔP 1 psi [.07 bar] without Check Valves	N/A	24.7 cfm (700 l/min)	24.7 cfm (700 l/min)
Max. Airflow at ΔP 1 psi [.07 bar] with Check Valves	1.8 cfm (50 l/min)	10.6 cfm (300 l/min)	10.6 cfm (300 l/min)

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

²NOTE: 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:

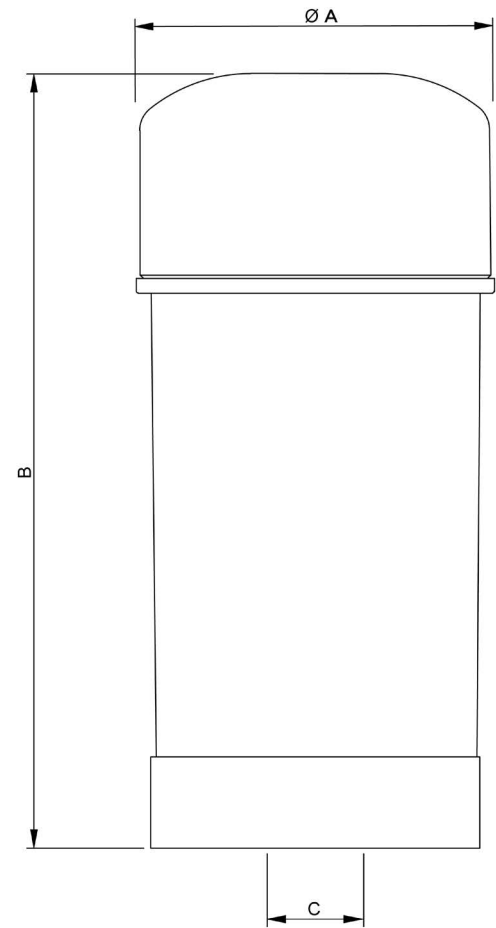
- Mobile & off-road equipment
- Hydraulics
- Nautical applications
- Truck differentials

Typical Industries:

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

DIMENSIONS:

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



SPARE PARTS:

Product Spare Parts	ACM61	ACL93	ACL96
KL Spin-On	KL60 (9237734)	KL90 (9331034)	
ZR Gel Refill	100 cc / RF-100 (9253184)	300 cc / RF-300 (9331156)	600 cc / RF-600 (9331155)
Spare Kit*	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.