

The KL series desiccant breathers are well suited for vibration and harsh environments, while also providing serviceability and high dirt holding capacity.



ORDERING CODES:

BOX 1

BOX 2

BOX 3

KL					
Series [Box 1]		Drying Agent [Box 2]		Check Valves [Box 3]	
Code	Description	Code	Description	Code	Description
93	300 cc	R	ZR Gel	V	With Check Valves
96	600 cc			-	Without Check Valves
121	1000 cc				
122	2000 cc				

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)

PERFORMANCE SPECIFICATIONS:

Product Code	93 Series	96 Series	121 Series	122 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	300 cc	600 cc	1000 cc	2000 cc
Amount of Desiccant	.5 lbs (230 g)	1 lbs (460 g)	1.7 lbs (770 g)	3.4 lbs (1540 g)
Water Adsorption Capacity (Maximum Water Retention)	2.8 fl. oz (86 ml)	5.5 fl. oz (172 ml)	9.3 fl. oz (288 ml)	17.6 fl. oz (576 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	24.7 cfm (700 l/min)	24.7 cfm (700 l/min)	53.0 cfm (1500 l/min)	53.0 cfm (1500 l/min)
Max. Airflow at ΔP 1 psi [.07 bar] with Check Valves	10.6 cfm (300 l/min)	10.6 cfm (300 l/min)	14.1 cfm (400 l/min)	14.1 cfm (400 l/min)

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

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:

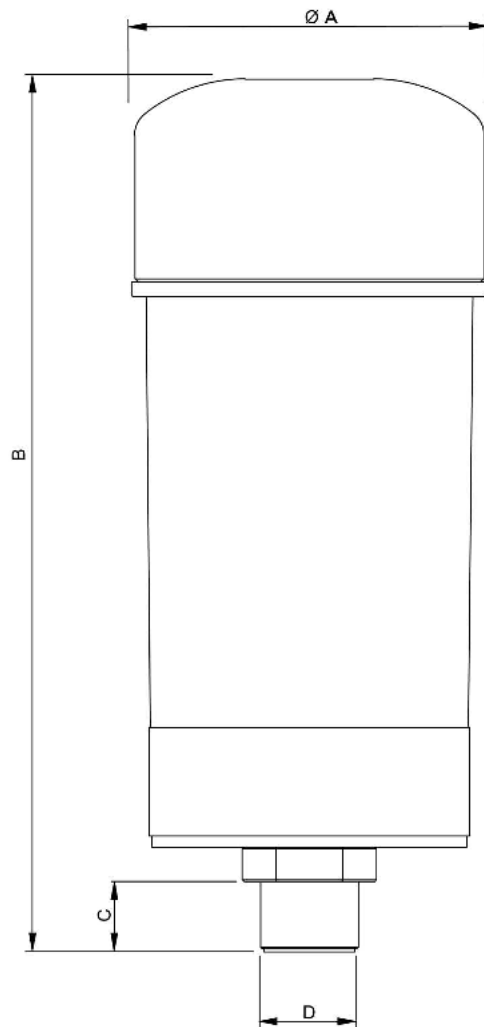
- Mobile & off-road equipment
- Hydraulics
- Nautical applications
- Truck differentials

Typical Industries:

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

DIMENSIONS:

	A	B	C
Series	Inch / mm	Inch / mm	Inch / mm
93	3.9 / 98	7.1 / 180	0.6 / 16
96	3.9 / 98	9.4 / 240	0.7 / 17
121	5.1 / 130	11 / 280	1 / 25
122	5.1 / 130	15.4 / 391	1 / 25
Thread Size (D)			
KL 93 & 96	¾" BSP male		
KL 121 & 122	1 ¼" BSP male		



SPARE PARTS:

Product Spare Parts	93 Series	96 Series	121 Series	122 Series
KL Spin-On	KL90 (9331034)		KL120 (9317903)	
ZR Gel	300 cc / RF-300 (9331156)	600 cc / RF-600 (9331155)	1000 cc / RF-1000 (9331157)	2000 cc / RF-2000 (9331158)
Spare Kit*	RK-93 (9318115)	RK-96 (9318116)	RK-121 (9318117)	RK-122 (9318118)

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