

KL Series Breathers

The KL series desiccant breathers are built around a steel standpipe making them 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		Drying Agent [Box 2]		Check Valves [Box 3]	
Code	Description	Code	Description	Code	Description
93	320 cc	R	ZR Gel	V	With Check Valves
96	600 cc			-	Without Check Valves
121	1040 cc				

MATERIALS & COMPONENTS:

- **Filter Media:** Glass Fiber
- **Hydrophilic Media:** ZR Gel
- **Check Valves:** Silicone
- **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 Size	93	96	121
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	320 cc	600 cc	1040 cc
Amount of Desiccant	.6 lbs (250 g)	1 lbs (460 g)	1.8 lbs (800 g)
Water Adsorption Capacity (Maximum Water Retention)	3 fl. oz (94 ml)	5.5 fl. oz (172 ml)	10 fl. oz (300 ml)
Color Indication	Red to Yellow		
Check Valve Cracking Pressure (For order codes ending in "V")	.05 psi (.003 bar)		
²Application Sizing Recommendations			
Max. Airflow without Check Valves	25 cfm (700 l/min)	25 cfm (700 l/min)	53 cfm (1500 l/min)
Max. Airflow with Check Valves	11 cfm (300 l/min)	11 cfm (300 l/min)	14 cfm (400 l/min)

¹NOTE: Small variations in the manufacturing process can be common and will be within the allowable engineering tolerances. All above data is nominal and provided for information only and subject to change. All metric conversions are approximate.

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

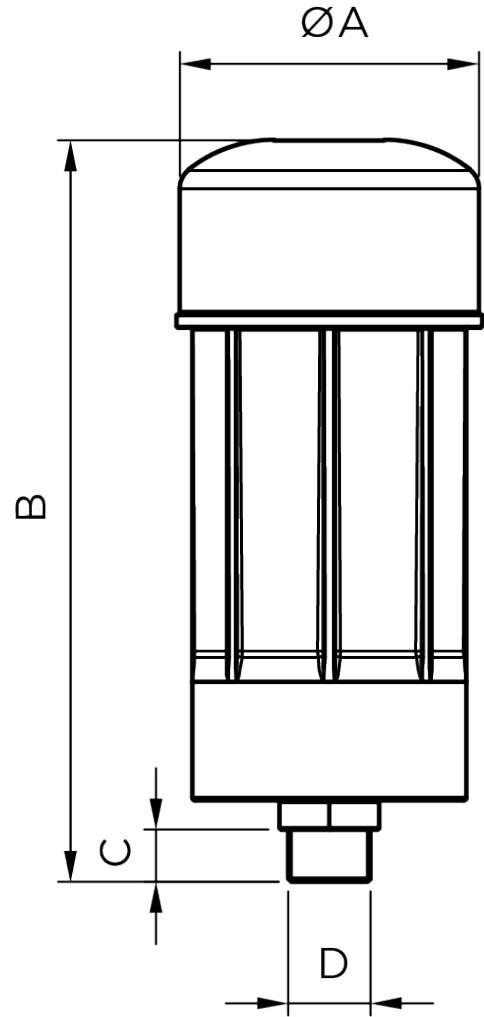
Typical Industries:

- Wind Energy
- Storage
- Pulp & Paper
- Mining
- Aviation
- 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
Thread Size (D)			
KL 93 & 96	¾" BSPP male		
KL 121	1 ¼" BSPP male		



SPARE PARTS:

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

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