

TDB Series Breathers

The TDB series is equipped to function in almost any environment with many connection options. It is fully serviceable, provides high dirt holding capacity, and includes a durable glass-filled nylon standpipe with built in oil mist reducer to prevent oil from reaching the desiccant.





ORDERING CODES:

TDB BOX 1 BOX 2 BOX 3 BOX 4

Size [Box 1]			
Code	Description		
93	320 cc		
96	600 cc		
121	1040 cc		

Drying Agent [Box 2]			
Code	Description		
R	ZR Gel		

Check Valves [Box 3]			
Code	Description		
V	With Check Valves		
-	Without Check Valves		

Connections [Box 4]			
93	93 & 96 Series		121 Series
Code	Description	Code Description	
34B	¾" BSPP male	1B	1" BSPP male
1B	1" BSPP male	1N	1" NPT male
1N	1" NPT male	114B	1 ¼" BSPP male
DIN6	DIN 24557/2 6-hole pattern	DIN6	DIN 24557/2 6-hole pattern

MATERIALS & COMPONENTS:

- Filter Media: Glass FiberHydrophilic Media: ZR Gel
- Check Valves: Silicone
- All other Components: Copolyester, Buna-N, Stainless steel, Nylon 6/6 30% Glass Filled

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 Size	93	96	121	
Temperature Range	-40°F to 194°F (-40°C to 90°C)			
Filter Efficiency	3 μm absolute (β₃ ≥ 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)			
² Application 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)	

'NOTE: 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.

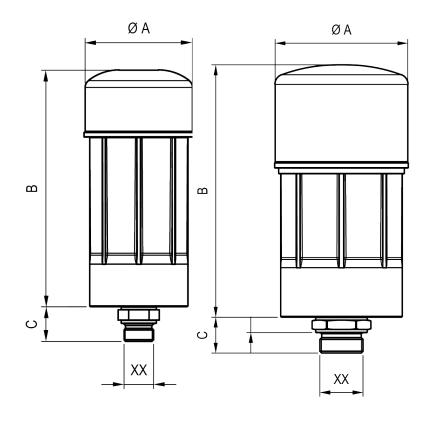


DIMENSIONS:

93 Series in inch / mm				
xx	Α	В	С	
¾" BSPP	3.9 / 98	6 / 152	1.3 / 33	
1" BSPP			1.3 / 33	
1" NPT			1.5 / 39	
DIN 24557/2 6-hole pattern			2.8 / 70	

96 Series in inch / mm				
xx	Α	В	С	
¾" BSPP	3.9 / 98	8.3 / 212	1.3 / 33	
1" BSPP			1.3 / 33	
1" NPT			1.5 / 39	
DIN 24557/2 6-hole pattern			2.8 / 70	

121 Series in inch / mm				
xx	Α	В	С	
1 ¼" BSPP	5.1/130	9.6 / 245	1.4 / 35	
1" BSPP			1.3 / 32	
1" NPT			1.5 / 37	
DIN 24557/2 6-hole pattern			2.8 / 70	



SPARE PARTS:

Product Spare Parts	93 Series	96 Series	121 Series
Air Filter	KL90 (9	KL120 (9317903)	
ZR Gel Refill	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 air filter, 1 ZR Gel refill, 2x foam filters, 1x bottom seal stickers, 1x adapter plug.

Typical Applications:

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

Typical Industries:

- Wind Energy
- Pulp & Paper
- Mining

- Aviation
- Petrochemical

