

The TDB series is equipped to function in the harshest environments. It is fully serviceable, provides high dirt holding capacity, and includes an integrated anti-splash device to prevent oil from reaching the desiccant.



ORDERING CODES:

TDB		BOX 1		BOX 2		BOX 3		BOX 4	
Series [Box 1]		Drying Agent [Box 2]		Check Valves [Box 3]		Connections [Box 4]			
Code	Description	Code	Description	Code	Description	93 & 96 Series		121 Series	
93	300 cc	R	ZR Gel	V	With Check Valves	Code	Description	Code	Description
96	600 cc			-	Without Check Valves	34B	¾" BSPP male	1B	1" BSPP male
121	1000 cc					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 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
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
Amount of Desiccant	.5 lbs (230 g)	1 lbs (460 g)	1.7 lbs (770 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)
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)
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)

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.

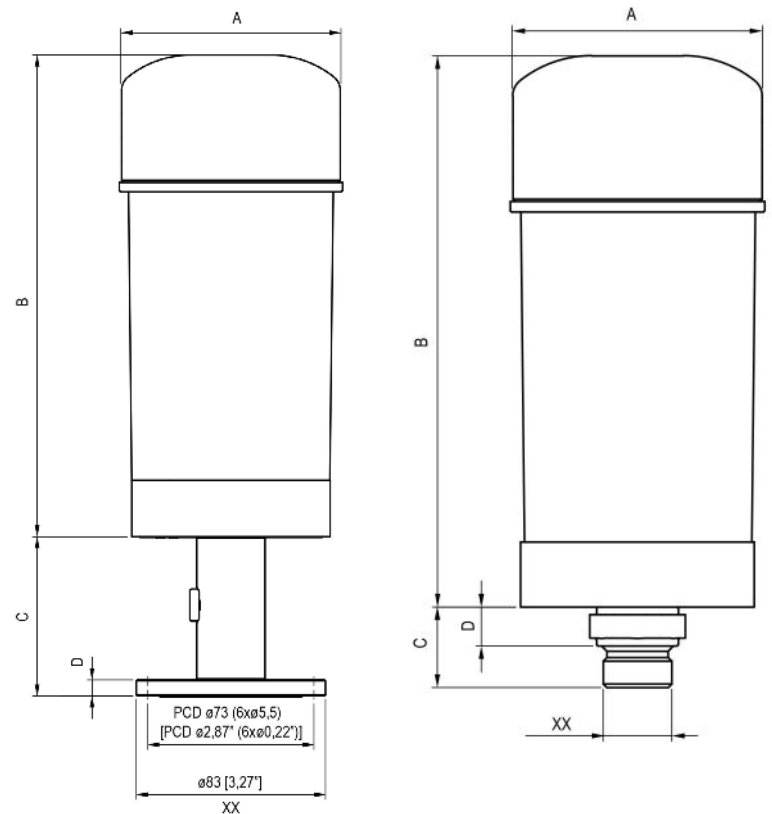
²NOTE: This is intended as a general guideline for sizing only; other considerations, such as: humidity level, frequency of air flow, ambient temperatures, and chemical compatibility are very important in sizing a breather properly. Larger applications and special circumstances typically require the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

DIMENSIONS:

93 Series in inch / mm				
XX	A	B	C	D
¾" BSPP	3.9 / 98	6 / 152	1.3 / 33	0.6 / 15
1" BSPP			1.3 / 33	0.6 / 15
1" NPT			1.5 / 39	0.5 / 13
DIN 24557/2 6-hole pattern			2.8 / 70	0.3 / 7

96 Series in inch / mm				
XX	A	B	C	D
¾" BSPP	3.9 / 98	8.3 / 212	1.3 / 33	0.6 / 15
1" BSPP			1.3 / 33	0.6 / 15
1" NPT			1.5 / 39	0.5 / 13
DIN 24557/2 6-hole pattern			2.8 / 70	0.3 / 7

121 Series in inch / mm				
XX	A	B	C	D
1 ¼" BSPP	5.1 / 130	9.6 / 245	1.6 / 40	0.8 / 20
1" BSPP			1.3 / 32	0.6 / 15
1" NPT			1.5 / 37	0.5 / 12
DIN 24557/2 6-hole pattern			2.8 / 70	0.3 / 7



SPARE PARTS:

Product Spare Parts	93 Series	96 Series	121 Series
Air Filter	KL90 (9331034)	KL120 (9317903)	
ZR Gel Refill	300 cc / RF-300 (9331156)	600 cc / RF-600 (9331155)	1000 cc / 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.

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Typical Applications:

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

Typical Industries:

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