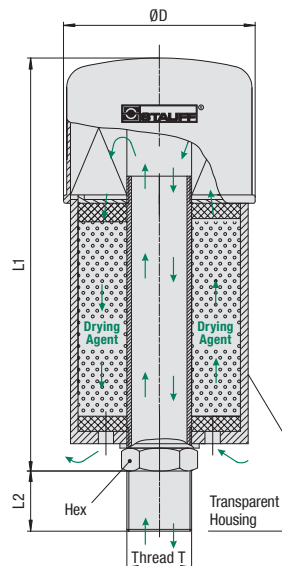


## Desiccant Air Breather incl. Air Filter Element Type SDB



**Drying Agent**  
Capable in changing colours  
with increasing moisture



This product does not contain any dangerous substances according to EC Council directives 99/45/EC and 2001/60/EC.

### Dimensions and Technical Data

Type	Thread T	Dimensions (mm/in)				Weight (g/lbs)		Volume (cm <sup>3</sup> / in <sup>3</sup> )		Max. Water Absorption (g/lbs)	Air Filter Elements			
		ØD*	L1*	L2*	Hex	Complete Unit	Drying Agent	Drying Agent	Type		Filter Material	Micron Rating	Filter Surface	Max. Air Flow Rate
SDB-093/2	Male G3/4 BSP (ISO 228)	98	160	18	32	1200	225	300	86	SGB-090-03-B	Synthetic Fibre	3µm	752 cm <sup>2</sup>	0,70 m <sup>3</sup> /min
		3.86	6.30	.71	1.26	2.65	.50	18.3	.19				115 in <sup>2</sup>	24.71 cfm
SDB-096/2	Male G3/4 BSP (ISO 228)	98	220	18	32	1500	450	600	172	SGB-090-03-B	Synthetic Fibre	3µm	752 cm <sup>2</sup>	0,70 m <sup>3</sup> /min
		3.86	8.66	.71	1.26	3.31	.99	36.6	.38				115 in <sup>2</sup>	24.71 cfm
SDB-121/2	Male G1-1/4 BSP (ISO 228)	130	258	25	50	2700	750	1000	288	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm <sup>2</sup>	1,50 m <sup>3</sup> /min
		5.12	10.16	.98	1.98	5.92	1.65	61.0	.63				320 in <sup>2</sup>	52.97 cfm
SDB-122/2	Male G1-1/4 BSP (ISO 228)	130	355	25	50	4000	1500	2000	576	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm <sup>2</sup>	1,50 m <sup>3</sup> /min
		5.12	13.98	.98	1.98	8.82	3.31	122.0	1.27				320 in <sup>2</sup>	52.97 cfm

\* ± 2 mm / .08 in

### Characteristics

#### Combination of air breather and water removal filter

When a reservoir or gearbox breathes, air containing water vapor is ingested into the system. Temperature fluctuations will cause this water vapor to condense which can speed up the oxidation of the fluid and lead to damage in the system.

While inhaling, Desiccant Air Breathers SDB first dry the air as it passes through the drying agent. The air then passes through a 3µm air filter element to remove any solid contamination particles.

As moisture is absorbed, the drying agent will gradually change from red to orange. When it is orange, replace the drying agent. If required, an optional visual indicator gives an indication of the status of the air breather. With the moisture absorbed, the oxidation process can be decreased and the lifetime of the oil and the entire machinery will be extended.

Desiccant Air Breathers SDB can also be re-fitted with a layer of active carbon (1/3) and a layer of regular drying agent (2/3) for vapor filtration.

#### Features

- Available in 4 different sizes
- Diameter of Ø100 mm / Ø3.94 in or Ø130 mm / Ø5.12 in
- Refillable with drying agent (non-toxic ZR gel grain) or a mix of drying agent and active carbon
- Replaceable air filter element SGB
- Connection: Male BSP thread (ISO 228) on Stainless Steel tube
- Available with adaptor plate to simplify installation and to enable the use of a visual contamination indicator
- Operating temperature range: -40 °C ... +90 °C / -40 °F ... +194 °F\*

### Accessories / Spare Parts

#### Adaptor plate

- for SDB-093/2 and SDB-096/2: AP-1
- for SDB-121/2 and SDB-122/2: AP-2

#### Visual contamination indicator

- for all sizes (in conjunction with adaptor plate only): FM

#### Drying agent refilling material (supplied in air tight container)

- for SDB-093/2 (300 cm<sup>3</sup> / 18.3 in<sup>3</sup>): RD-093
- for SDB-096/2 (600 cm<sup>3</sup> / 26.6 in<sup>3</sup>): RD-096
- for SDB-121/2 (1000 cm<sup>3</sup> / 61.0 in<sup>3</sup>): RD-121
- for SDB-122/2 (2000 cm<sup>3</sup> / 122.0 in<sup>3</sup>): RD-122

#### Active carbon refilling material (supplied in air tight container)

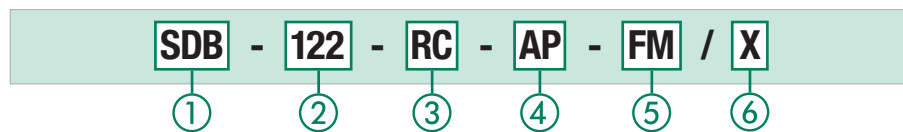
- for SDB-093/2, SDB-096/2 and SDB-121/2 (300 cm<sup>3</sup> / 18.3 in<sup>3</sup>): RC-093/096/121
- for SDB-122/2 (600 cm<sup>3</sup> / 18.3 in<sup>3</sup>): RC-122

Please note: Use one layer of active carbon (1/3) and one layer of regular drying agent (2/3).

#### Replacement air filter element (sealing included)

- for SDB-093/2 and SDB-096/2: SGB-090-03-B
- for SDB-121/2 and SDB-122/2: SGB-120-03-B

### Order Codes



#### ① Type

Desiccant Air Breather **SDB**

#### ② Max. Water Absorption and Size

86 g / .19 lbs at Ø100 mm / Ø3.94 in **093**  
 172 g / .38 lbs at Ø100 mm / Ø3.94 in **096**  
 288 g / .63 lbs at Ø130 mm / Ø5.12 in **121**  
 576 g / 1.27 lbs at Ø130 mm / Ø5.12 in **122**

Please see table above for further technical details.

#### ③ Drying Agent Material

Regular drying agent (standard option) -  
 One layer of active carbon (1/3) and one layer of regular drying agent (2/3) for vapor filtration **RC**

#### ④ Adaptor Plate

Without adaptor plate -  
 With adaptor plate **AP**

#### ⑤ Contamination Indicator

Without contamination indicator -  
 With visual contamination indicator FM **FM**  
 (in conjunction with adaptor plate AP only)

Please see page 47 for details.

#### ⑥ Design Code

Only for information **X**

\* Note: The operation of the Desiccant Air Breather may vary at temperatures below 0°C / 32°F due to very low humidity %.

