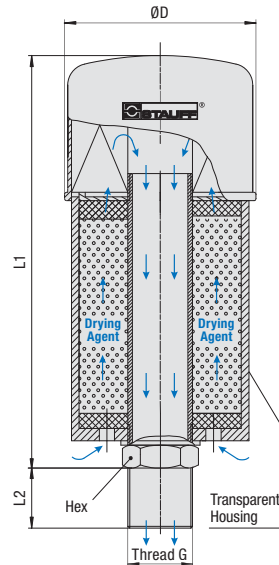


Desiccant Air Breather - Type SDB



Drying Agent
Capable in changing colours with increasing moisture

ACTIVE

REPLACE

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 G	Dimensions (mm/in)				Weight (g/lbs)		Volume (cm³/in³) Drying Agent	Max. Water Absorption (g/lbs)	Air Filter Elements				
		ØD	L1	L2	Hex	Complete Unit	Drying Agent			Type	Filter Material	Micron Rating	Filter Surface	Max. Air Flow Rate
SDB-093	Male G3/4 BSP (ISO 228)	100	160	20	32	1200	225	300	86	SGB-090-03-B	Synthetic Fibre	3µm	752 cm²	0,70 m³/min
		3.94	6.30	.79	1.26	2.65	.50	18.3	.19				115 in²	24.71 cfm
SDB-096	Male G3/4 BSP (ISO 228)	100	220	20	32	1500	450	600	172	SGB-090-03-B	Synthetic Fibre	3µm	752 cm²	0,70 m³/min
		3.94	8.66	.79	1.26	3.31	.99	36.6	.38				115 in²	24.71 cfm
SDB-121	Male G1-1/4 BSP (ISO 228)	130	256	>25	50	2700	750	1000	288	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm²	1,50 m³/min
		5.12	10.08	>.98	1.98	5.92	1.65	61.0	.63				320 in²	52.97 cfm
SDB-122	Male G1-1/4 BSP (ISO 228)	130	366	>25	50	4000	1500	2000	576	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm²	1,50 m³/min
		5.12	14.41	>.98	1.98	8.82	3.31	122.0	1.27				320 in²	52.97 cfm

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 gran) 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

Accessories / Spare Parts

Connection adaptor (see page E34 for details)

- for SDB-093 and SDB-096 to be used with visual contamination indicator FM without adaptor plate AP-1:

DBA-75

Adaptor plate (see page E33 for details)

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

AP-1

AP-2

Visual contamination indicator (see page E33 for details)

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

Drying agent refilling material (supplied in air tight container)

- for SDB-093 (300 cm³ / 18.3 in³): RD-093
- for SDB-096 (600 cm³ / 26.6 in³): RD-096
- for SDB-121 (1000 cm³ / 61.0 in³): RD-121
- for SDB-122 (2000 cm³ / 122.0 in³): RD-122

Active carbon refilling material (supplied in air tight container)

- for SDB-093, SDB-096/2 and SDB-121 (300 cm³ / 18.3 in³): RC-093/096/121
- for SDB-122 (600 cm³ / 18.3 in³): 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 and SDB-096: SGB-090-03-B
- for SDB-121 and SDB-122: SGB-120-03-B

Order Codes

SDB -
 122 -
 RC -
 AP -
 FM

1
 2
 3
 4
 5

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 (in conjunction with adaptor plate AP only)	FM

Please see page E33 for details.

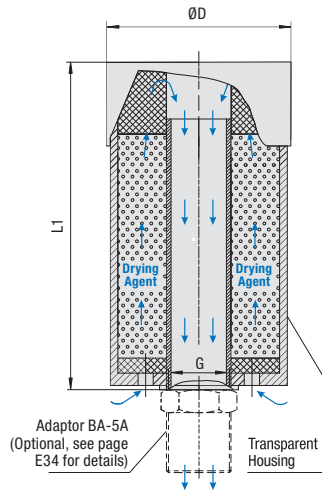
Desiccant Air Breather (Economy Version) - Type SVDB

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 G	Dimensions (mm/in)			Weight (g/lbs)		Volume	Max. Water Absorption (g/lbs)	Max. Air Flow Rate
		ØD	L1	L2	Complete Unit	Drying Agent	(cm³/in³) Drying Agent		
SVDB-093	Female G3/4 BSP (ISO 228)	94	109	18	400	225	300	86	0,70 m³/min
		3.70	4.68	.71	.88	.50	18.3	.19	24.71 cfm
SVDB-096	Female G3/4 BSP (ISO 228)	94	179	18	700	450	600	172	0,70 m³/min
		3.70	7.05	.71	1.54	.99	36.9	.38	24.71 cfm

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.

Desiccant Air Breathers SVDB are the light-weight alternative to the proven SDB series, offering an almost identical filtration and absorption performance.

While inhaling, Desiccant Air Breathers SVDB also first dry the air as it passes through the drying agent. The air then passes through a 10 µm coarse filter 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 entire unit. 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.

Features

- Light-weight alternative to the SDB series
- Available in 2 different sizes
- Diameter of Ø94 mm / Ø3.70 in
- Filled with drying agent (non-toxic ZR gel grain)
- Connection: Female BSP thread (ISO 228) in Plastic housing

Please note that neither the air filter element nor the drying agent can be replaced when saturated.

Order Codes

SVDB - 096 - BA

①

②

③

① Type

Desiccant Air Breather (Economy Version) **SVDB**

② Max. Water Absorption and Size

86 g / .19 lbs at Ø94 mm / Ø3.70 **093**
172 g / .38 lbs at Ø94 mm / Ø3.70 **096**

Please see table above for further technical details.

③ Connection Adaptor

Without connection adaptor **-**
With connection adaptor BA-5A **BA**

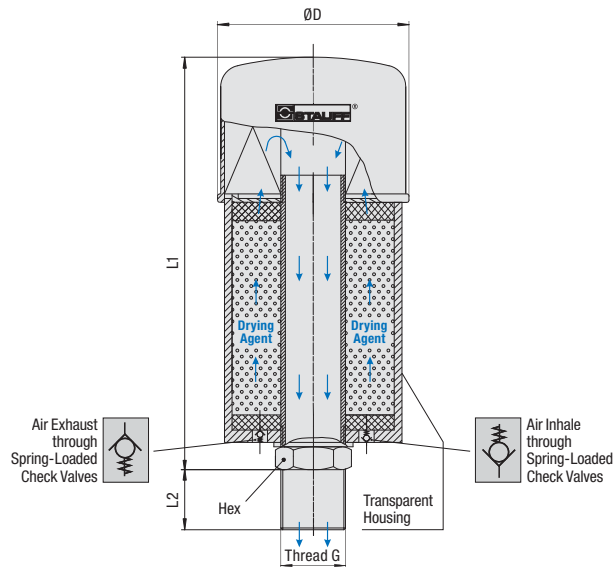
Please see page E34 for details.
Consult STAUFF for alternative adaptors.

Accessories / Spare Parts

- Connection adaptor** (see page E34 for details)
▪ for all sizes:

BA-5A

Desiccant Air Breather with Check Valves - Type SDB-CV



Drying Agent
Capable in changing colours with increasing moisture

ACTIVE

REPLACE

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 G	Dimensions (mm/in)				Weight (g/lbs)		Volume (cm³/in³)	Max. Water Absorption (g/lbs)	Air Filter Elements				
		ØD	L1	L2	Hex	Complete Unit	Drying Agent			Type	Filter	Micron Rating	Filter Surface	Max. Air Flow Rate
SDB-061-CV	Female G3/8 BSP (ISO 228)	68	143	14	22	350	75	100	29	SGB-060-03-B	Synthetic Fibre	3µm	415 cm²	0,05 m³/min
		2.68	5.63	.55	.87	.77	.17	6.1	.06				63 in²	1.77 cfm
SDB-096-CV	Male G3/4 BSP (ISO 228)	100	220	20	32	1500	450	600	172	SGB-090-03-B	Synthetic Fibre	3µm	752 cm²	0,70 m³/min
		3.94	8.66	.79	1.26	3.31	.99	36.6	.38				115 in²	24.71 cfm
SDB-121-CV	Male G1-1/4 BSP (ISO 228)	130	256	>25	50	2700	750	1000	288	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm²	1,50 m³/min
		5.12	10.08	>.98	1.98	5.92	1.65	61.0	.63				320 in²	52.97 cfm
SDB-122-CV	Male G1-1/4 BSP (ISO 228)	130	366	>25	50	4000	1500	2000	576	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm²	1,50 m³/min
		5.12	14.41	>.98	1.98	8.82	3.31	122.0	1.27				320 in²	52.97 cfm

Characteristics

Combination of air breather and water removal filter with integrated check valves to increase the lifetime of the desiccant material; particularly suited for gearbox applications

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-CV 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.

Thanks to the spring-loaded check valves with an opening pressure of 0,01 bar / .15PSI, the drying agent will be isolated from the atmosphere unless inhaling or exhaling, which increases the lifetime of the Desiccant Air Breather SDB-CV as well

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 (not for the SDB-061-CV) 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-CV 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

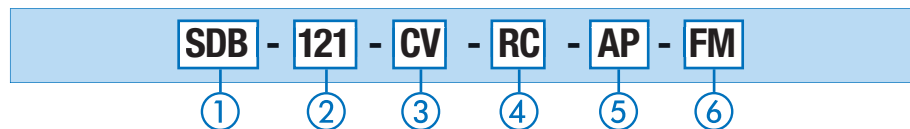
- Available in 4 different sizes with diameter of Ø68 mm / Ø2.68 in, Ø100 mm / Ø3.94 in or Ø130 mm / Ø5.12 in
- Equipped with spring-loaded check valves in opposing directions with an opening pressure of 0,01 bar / .15PSI
- Refillable with drying agent (non-toxic ZR gel grain) or a mix of drying agent and active carbon
- Replaceable air filter element SGB
- Connection: Male / Female BSP thread (ISO 228)

Please note: Using an Desiccant Air Breather with integrated spring-loaded check valves may cause an under or over pressure of 0,01 bar / .15PSI inside the system, which does not cause any problems for the majority of gearboxes and reservoirs. In case of doubt, please consult your equipment supplier.

Accessories / Spare Parts

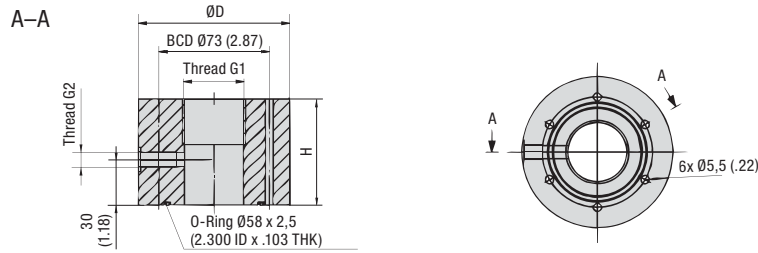
- Connection adaptor** (see page E34 for details)
- for SDB-061-CV: **BA-5B**
- Adaptor plate** (see page E33 for details)
- for SDB-096-CV: **AP-1**
 - for SDB-121-CV and SDB-122-CV: **AP-2**
- Visual contamination indicator** (see page E33 for details)
- for SDB-096-CV, SDB-121-CV and SDB-122-CV (in conjunction with adaptor plate only): **FM**
- Drying agent refilling material** (supplied in air tight container)
- for SDB-061-CV (100 cm³ / 6.1 in³): **RD-061**
 - for SDB-096-CV (600 cm³ / 26.6 in³): **RD-096**
 - for SDB-121-CV (1000 cm³ / 61.0 in³): **RD-121**
 - for SDB-122-CV (2000 cm³ / 122.0 in³): **RD-122**
- Active carbon refilling material** (supplied in air tight container)
- for SDB-096-CV and SDB-121-CV (300 cm³ / 18.3 in³): **RC-093/096/121**
 - for SDB-122-CV (600 cm³ / 18.3 in³): **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-061-CV: **SGB-060-03-B**
 - for SDB-096-CV: **SGB-090-03-B**
 - for SDB-121-CV and SDB-122-CV: **SGB-120-03-B**

Order Codes



1 Type	Desiccant Air Breather	SDB
2 Max. Water Absorption and Size	29 g / .06 lbs at Ø68 mm / Ø2.68 in	061
	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 Check Valves	With integrated spring-loaded check valves (0,01 bar / .15PSI)	CV
4 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
5 Connection Adaptor	Without connection adaptor	-
	With connection adaptor BA-5B (only for SDB-061-CV)	BA
	Please see page E34 for details. Consult STAUFF for alternative adaptors.	
6 Adaptor Plate	Without adaptor	-
	With adaptor plate (not for SDB-061-CV)	AP
7 Contamination Indicator	Without contamination indicator	-
	With visual contamination indicator FM (in conjunction with adaptor plate AP only)	FM
	Please see page E33 for details.	

Adaptor Plate - Type AP


 Desiccant Air Breather SDB
with Adaptor Plate AP


Order Code and Dimensions

Order Code	Thread G1 (Breather Port)	Thread G2 (Indicator Port)	Dimensions (mm/in)		Socket Cap Screws included	For Use with Desiccant Air Breathers
			H	ØD		
AP-1	Female G3/4 BSP (ISO 228)	Female 1/8 NPT (ANSI B1.20.1)	50	88	M5 x 60 - 8.8 (Steel, zinc-plated)	SDB-093 SDB-096
			1.98	3.46		
AP-2	Female G1-1/4 BSP (ISO 228)	Female 1/8 NPT (ANSI B1.20.1)	70	100	M5 x 80 - 8.8 (Steel, zinc-plated)	SDB-121 SDB-122 SDB-121-CV SDB-122-CV
			2.76	3.94		

Characteristics

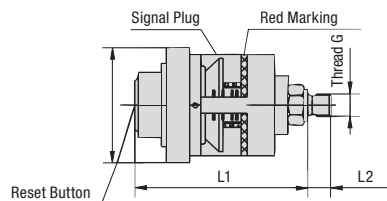
Designed to simplify the installation of Desiccant Air Breathers and enable the use of a visual contamination indicator

With Adaptor Plates AP, desiccant air breathers can be directly mounted to existing connections with a six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2.

They are also equipped with a female 1/8 NPT thread (ANSI B1.20.1) to connect with the Visual Contamination Indicator FM.

Adaptor Plates AP are made of Polyamide (PA). A blind plug, O-ring made of NBR (Buna-N®) and 6 socket cap screws (ISO 4762) are supplied with AP as a standard.

Visual Contamination Indicator - Type FM


 Desiccant Air Breather SDB with
Adaptor Plate AP and Visual
Contamination Indicator FM


Order Code and Dimensions

Order Code	Thread G	Dimensions (mm/in)	
		L1	L2
FM	Male 1/8 NPT (ANSI B1.20.1)	75	10
		2.54	.39

Materials

- Housing made of Polycarbonate

Technical Data

- Operating temperature range:
-40 °C ... +121 °F (-40 °F ... +250 °F)
- Accuracy: ±10% at red marking

Characteristics

Designed to indicate the status of air filter elements

Visual Contamination Indicators FM – the so-called Filter Minders® – are connected to the female 1/8 NPT thread (ANSI B1.20.1) of the Adaptor Plate AP and give a visual indication of the contamination level of the air filter element SGB. A red marking indicates when the air filter element has to be replaced.

Visual Contamination Indicators FM can be reset afterwards.

Consult STAUFF for alternative types of monitoring devices (such as Graduated Switch Indicators FME, etc.).