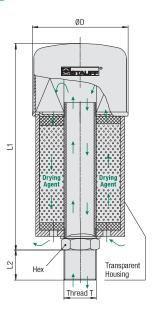
Desiccant Air Breather Type SDB





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

Туре	Thread T	Dimensions				Weight		Volume	Max. Water	Air Filter Elements				
		(mm/in)				(g/ l bs)		(cm ³ / in ³)	Absorption		Filter	Micron	Filter	Max. Air
		ØD	L1	L2	Hex	Complete Unit	Drying Agent	Drying Agent	(g/Ibs)	Туре	Material	Rating	Surface	Flow Rate
SDB-093/2	Male G3/4 BSP	100	160	20	32	1200	225	300	86	SGB-090-03-B	Synthetic Fibre	3µт	752 cm ²	0,70 m³/min
SDB-093/2	(ISO 228)	3.94	6.30	.79	1.26	2.65	.50	18.3	.19				115 in²	24.71 cfm
CDD OOC/O	Male G3/4 BSP	100	220	20	32	1500	450	600	172	SGB-090-03-B	Synthetic Fibre	3µт	752 cm ²	0,70 m³/min
SDB-096/2	(ISO 228)	3.94	8.66	.79	1.26	3.31	.99	36.6	.38				115 in²	24.71 cfm
SDB-121/2	Male G1-1/4 BSP	130	256	>25	50	2700	750	1000	288	SGB-120-03-B	Synthetic Fibre	: Зµт	2095 cm ²	1,50 m³/min
SDB-121/2	(ISO 228)	5.12	10.08	>.98	1.98	5.92	1.65	61.0	.63				320 in²	52.97 cfm
CDD 100/0	Male G1-1/4 BSP	130	366	>25	50	4000	1500	2000	576	00D 400 00 D	0 11 11 51	21100	2095 cm ²	1,50 m³/min
SDB-122/2 (ISO 228)	5.12	14.41	>.98	1.98	8.82	3,31	122.0	1.27	SGB-120-03-B	Synthetic Fibre	ЗИШ	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 $3\,\mu m$ 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

- 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): FΜ

Drying agent refilling material (supplied in air tight container)

■ for SDB-093/2 (300 cm3 / 18.3 in3): RD-093 ■ for SDB-096/2 (600 cm³ / 26.6 in³): RD-096 ■ for SDB-121/2 (1000 cm³ / 61.0in³): RD-121 ■ for SDB-122/2 (2000 cm3 / 122.0 in3): RD-122

Active carbon refilling material (supplied in air tight container)

■ for SDB-093/2, SDB-096/2

RC-093/096/121

and SDB-121/2 (300 cm3 / 18.3 in3): ■ for SDB-122/2 (600 cm3 / 18.3 in3): 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)

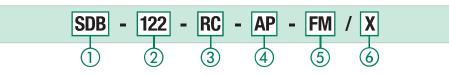
■ for SDB-093/2 and SDB-096/2:

SGB-090-03-B

• for SDB-121/2 and SDB-122/2: SGB-120-03-B

agent (2/3) for vapor filtration.

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 Ø130mm / Ø5.12 in 121 576 g / 1.27 lbs at Ø130mm / Ø5.12 in

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 RC of regular drying agent (2/3) for vapor filtration

(4) Adaptor Plate

Without adaptor plate With adaptor plate AΡ

(5) Contamination Indicator

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

Please see page 47 for details.

6 Design Code

Only for information

RC-122



FΜ

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

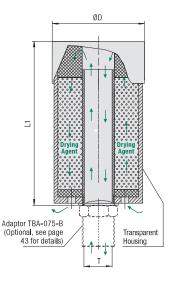


Desiccant Air Breather (Disposable Version) Type SVDB

Drying AgentCapable 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

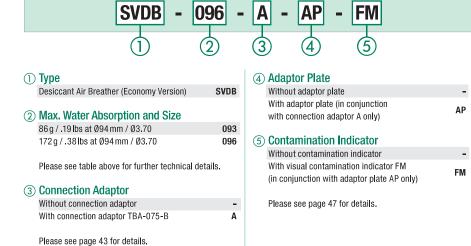
Туре	Thread T	Dimensions (mm/ _{in)}			Weight		Volume (cm³/in³)	Max. Water Absorption	Max. Air Flow Rate
		ØD	L1	L2	Complete Unit	Drying Agent	Drying Agent	(g/lbs)	
01/00 000	Female G3/4 BSP	94	109	18	400	225	300	86	0,70 m³/min
SVDB-093 (I	(ISO 228)	3.70	4.68	.71	.88	.50	18.3	.19	24.71 cfm
CVDD 00C	Female G3/4 BSP	94	179	18	700	450	600	172	0,70 m³/min
SVDB-096 (ISO 228)	(ISO 228)	3,70	7.05	.71	1.54	.99	36.9	.38	24.71 cfm

Features

- Light-weight alternative to the SDB series
- Available in 2 different sizes
- Diameter of Ø94mm / Ø3.70in
- Filled with drying agent (non-toxic ZR gel grain)
- Connection: Female BSP thread (ISO 228) in Plastic housing
- Operating temperature range:-40 °C ... +90 °C / -40 °F ... +194 °F*

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

Order Codes



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 μ m 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.

Accessories / Spare Parts

Connection adaptor (see page 43 for details)

■ for all sizes: TBA-075-B

Adaptor plate

• for all sizes (in conjunction with adaptor plate only): AP-1

Visual contamination indicator

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

^{*} Note: The operation of the Desiccant Air Breather may vary at temeratures below 0°C / 32°F due to very low humidity %,



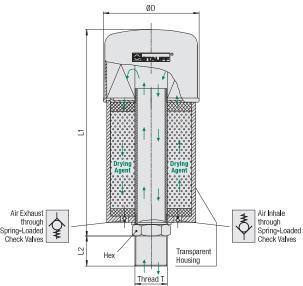
Contact STAUFF for alternative adaptors.



Desiccant Air Breather with Check Valves Type SDB-CV







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

Туре	Thread T	Dimensions				Weight		Volume	Max. Water	Air Filter Elements				
		(mm/in)				(g/lbs)		(cm ² /in ³)	Absorption		Filter	Micron	Filter	Max. Air
		ØD	L1	L2	Hex	Complete Unit	Drying Agent	Drying Agent	(g/ I bs)	Туре	67	Rating	Surface	Flow Rate
SDB-061-CV	Female G3/8	68	143	14	22	350	75	100	29	SGB-060-03-B	Synthetic	2,,,,,,	415 cm ²	0,05 m³/min
2DD-001-0A	BSP (ISO 228)	2.68	5.63	.55	.87	.77	.17	6.1	.06		Fibre	3µm	63 in ²	1,77 cfm
SDB-096-CV	Male G3/4	100	220	20	32	1500	450	600	172	SGB-090-03-B	Synthetic	2,000	752 cm ²	0,70 m³/min
2DD-080-0A	BSP (ISO 228)	3.94	8.66	.79	1.26	3,31	.99	36.6	.38		Fibre	3µт	115 in²	24.71 cfm
SDB-121-CV	Male G1-1/4	130	256	>25	50	2700	750	1000	288	SGB-120-03-B	Synthetic	2,,,,,,	2095 cm ²	1,50 m³/min
200-121-CV	BSP (ISO 228)	5.12	10.08	>.98	1.98	5.92	1.65	61.0	.63		Fibre	Зµт	320 in²	52.97 cfm
SDB-122-CV	Male G1-1/4	130	366	>25	50	4000	1500	2000	576	SGB-120-03-B	Synthetic	0.000	2095 cm ²	1,50 m³/min
SDD-122-6V	BSP (ISO 228)	5.12	14.41	>.98	1.98	8.82	3.31	122.0	1.27		Fibre	3µm	320 in ²	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 3 µm air filter element to remove any solid contamination particles.

Thanks to the spring-loaded check valves with an opening pressure of 0,01 bar / .15 PSI, 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 / .15 PSI
- Refillable with drying agent (non-toxic ZR gel grain) or a mix of drying agent and active carbon
- Replaceable air filter element SGB
- Connection: BSP thread (ISO 228)
- Operating temperature range:

-40 °C ... +90 °C / -40 °F ... +194 °F*

Please note: Using an Desiccant Air Breather with integrated spring-loaded check valves may cause an under or over pressure of 0.01 bar / .15 PSI inside the system, which does not cause any problems for the majority of gearboxes and reservoirs. In case of doubt, please contact your equipment supplier.

Accessories / Spare Parts

Adaptor plate

- for SDB-096-CV: AP-1 ■ for SDB-121-CV and SDB-122-CV: AP-2

Visual contamination indicator

■ for SDB-096-CV, SDB-121-CV and SDB-122-CV FΜ (in conjunction with adaptor plate only):

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 and SDB-122-CV RD-121 (1000 cm³ / 61.0 in³)
- for SDB-122-CV (2000 cm3 / 122.0 in3): RD-122

Active carbon refilling material (supplied in air tight container)

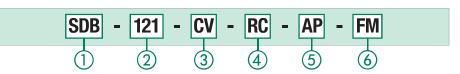
- for SDB-096-CV and SDB-121-CV RC-093/096/121 (300 cm³ / 18.3 in³):
- for SDB-122-CV (600 cm3 / 18,3 in3): RC-122 Please note: Use one layer of active carbon (1/3) and one layer of regular drying agent (2/3).

Replacement air filter element (sealing included)

for SDB-061-CV: SGB-060-03-B SGB-090-03-B for SDB-096-CV:

■ for SDB-121-CV and SDB-122-CV: SGB-120-03-B

Order Codes



SDB

Desiccant Air Breather

② Max. Water Absorption and Size

29g / .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 Ø130mm / Ø5.12 in 121 576 g / 1.27 lbs at Ø130mm / Ø5.12 in 122

Please see table above for further technical details.

③ Check Valves

With integrated spring-loaded CV check valves (0,01 bar / .15 PSI)

(4) Drying Agent

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

(5) Adaptor Plate

Without adaptor With adaptor plate (not for SDB-061-CV)

(6) Contamination Indicator

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

Please see page 47 for details.

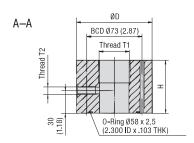
* Note: The operation of the Desiccant Air Breather may vary at temeratures below 0°C / 32°F due to very low humidity %.

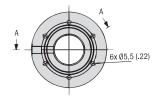


RC

ΔΡ







Adaptor Plate Type AP

Desiccant Air Breather SDB with Adaptor Plate AP



Order Code and Dimensions

Thread T1 (Breather Port)	Thread T2 (Indicator Port)	Dimension H	s ^{(mm} / _{in)} ØD	Socket Cap Screws included	For Use with Desiccant Air Breathers	Order Code	
Female G3/4 BSP	Female G1/8 BSP	50	50 88 M5 x 60 - 8.8		SDB-096/2 SDB-093/2 SVDB-096	AP-1	
(ISO 228)	(ISO 228)	1.98	3.46	(Steel, zinc-plated)	SVDB-090 SVDB-093 SDB-096-CV	AI -I	
Female G1-1/4 BSP	Female G1/8 BSP	70	100	M5 x 80 - 8.8	SDB-121/2 SDB-122/2	AP-2	
(ISO 228)	(ISO 228)	2.76	3.94	(Steel, zinc-plated)	SDB-121-CV SDB-122-CV		

Signal Plug

0 50 (0 1.97)

Reset Button

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 G1/8 BSP thread (ISO 228) to connect with the Visual Contamination Indicator FM.

Adaptor Plates AP are made of Polyamide (PA). A blind plug, 0-ring made of NBR (Buna-N®) and 6 socket cap screws (ISO 4762) are supplied with AP as a standard.

Contact STAUFF for other Adaptor Plates.

Visual Contamination Indicator Type FM





Order Code and Dimensions

Thread T	Dimensions (m	Order Code		
	L1	L2		
Male G1/8 BSP	75	10	FM.	
(ISO 228)	2.54	.39	FM	

Materials

Housing made of Polycarbonate

Technical Data

Red Marking

SW 14 (Hex .55)

- Operating temperature range:-40 °C ... +121 °C (-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 G1/8 BSP thread (ISO 228) 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.

Oil Demister Type TBA-OD

Order Code and Dimensions

Dimensions (mm/in)	Order Code
Length	Diameter	
140	60	TBA-075-B-0D140
5.51	2.36	TDA-0/3-D-00140
210	60	TDA 075 D 0D040
8.27	2.36	TBA-075-B-0D210

Dimensional drawings: All dimensions in mm (in).

Characteristics

Designed to prevent oil mist from leaving the hydraulic reservoir through air breathers

Features

- Available in 2 different sizes with lengths of 140 mm / 5.51 in or 210 mm / 8.27 in
- Suitable for use with various types of Desiccant Air Breathers including SDB-096/2, SDB-093/2, SVDB-096, SVDB-093 and SDB-096-CV as well as Tank Filler Breathers including SPB-2, SPB-3, SMBT-80 and SPBN

Materials

- Housing with cooling ribs made of Aluminum housing with cooling ribs
- Threaded adaptors made of Steel

