



	Overview Particle and Desiccant Breathers					
	Particle and Desiccant Breathers	44 - 47				
	SDB (Robust Design)	44 - 45				
	SDBL (Compact Design)	46 - 47				
	Desiccant Breathers	48 - 49				
	SVDB (Simplified Design)	48 - 49				
	Accessories / Spare Parts	50 - 54				
	Adaptors	50				
THE STATE OF THE S	TBA					
P ₂	Valve Units	51				
	PSU					
	Adaptor Plates	52				
	AP					
	Contamination Indicators	52				
du all	FM / FME					
	Oil Demisters	53				
	TBA0D					
465 465 585	Oil Demister Inserts	53				
-	PSU-OD					
	Adaptor Ring for Stacking Assembly	53				
	PSU-HC					
15 0	Refill and Maintenance Kits	53				
0	KITMAINTAIN					
	Particle Breather (Air Breather Element)	44				
	SGB					





Particle and Desiccant Breathers • Overview

Types		SDB	SDBL	SVDB	НС
				The state of the s	
	Version	Robust Design	Compact Design	Simplified Design	High Capacity Design
	Function	Particle and Desiccant Breather	Particle and Desiccant Breather	Desiccant Breather	Particle and Desiccant Breather
Characteristics	Micron rating of the Air Breather Element	3 µm	3 µm	100 μm	3 μm
	UV-Resistant ¹	• • • •	• • • •	• • • •	• • • •
	Service Life and Ease of Maintenance ¹	• • • 0	• • • 0	• • • •	• • • •
	Standard Drying Agent	•	•	•	•
	Alternative Drying Agent	0	0	0	0
Options	Active Carbon (Odour and Oil Mist Seperation)	•	•	0	•
	Check Valves (Optimising Service Life)	•	•	0	•
	Standard Mounting Thread	BSP- Male	BSP- Female	BSP- Female	BSP- Male
Mounting Options	Alternative Mounting Thread	NPT- Male	Only with Adaptor (TBA)	Only with Adaptor (TBA)	NPT- Male
	Adaptor Plate (AP)	BSP	Only with Adaptor (TBA)	Only with Adaptor (TBA)	BSP
Spare Parts	Air Breather Element SGB	•	-	-	-
·	Refill and Maintenance Kits	•	•	-	•
Adaptors	TBA	-	•	•	-
	PSU-P-TF (Reservoir Pressurisation)	•	-	-	•
Valve Units	PSU-P (Reservoir Pressurisation)	-	•	0	-
	PSU-QE (Bypass Valve)	-	•	0	-
Contamination Indicators	Visual Contamination Indicator FM	Only with Adaptor Plate (AP)	Only with Adaptor Plate (AP)	-	Only with Adaptor Plate (AP)
	Visual-Electrical Contamination Indicator FME		Adaptor (TBA)		
	TBAOD (Oil Demister)	•	- Recommended with Adaptor	- Recommended with Adaptor	•
Accessories	PSU-OD (Oil Demister Insert) PSU-HC (Adaptor Ring for	-	(TBA)	(TBA)	-
	Stacking Assembly)	•	-	-	•
	Mobile Applications	• • • •	• • 0 0	• 0 0 0	• 0 0 0
	Industrial Applications	••••	• • • •	• • • 0	••••
Applications ²	Marine Applications	• • • •	• • • •	• 0 0 0	••••
(Indoor and outdoor use)	Hydraulic Steel Construction	••••	• • • 0	• 0 0 0	••••
	Fluid and Lubricant Storage	• • • 0	• • • 0	• • • 0	• • • •
	Gearboxes	• • • •	• • • 0	• 0 0 0	• • • •
	Further areas of Application	0	0	0	0

ullet available | \circ on request | - not available | ullet \bullet \bullet \circ 3/4 (Rating¹, Recommendation²)

Please note: The information on the selection and sizing of desiccant breathers in this catalogue is intended only as general non-binding guidelines. In addition to the maximum air flow rate and the frequency of breathing, the Type and volume of the reservoir, the medium used and its chemical compatibility as well as specific environmental conditions (e.g. contamination, ambient temperature and especially temperature changes, humidity) can also play a decisive role. Typically, large volume systems and applications with particularly challenging environmental conditions require the most careful analysis. Please contact STAUFF for assistance in the selection and sizing of desiccant Breathers.

Particle and Desiccant Breather (Robust Design) **Type SDB**



Characteristics

Function

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

Using SDB series Particle and Desiccant Breathers, the incoming air first passes through a coarse filter, then a drying agent and finally an Air Breather element to filter out any dirt particles in addition to the moisture.

Description

The SDB series from STAUFF is robust design that is used in particularly demanding areas in mobile hydraulics (e.g. in the construction, mining and demolition industries).

Available in four different housing lengths between 160 mm and 355 mm (without thread) and has a diameter of 98 mm or 130 mm depending on the selected length.

The UV-resistant plastic housing is designed with an internal stainless steel tube for maximum stability. The Particle and Desiccant Breather can be installed on the system via the external thread at the lower end of the stainless steel tube

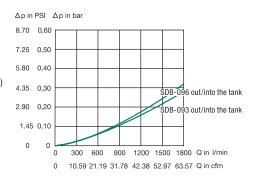
Features

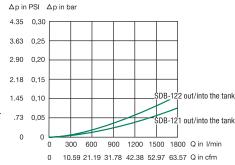
- Available in 4 different sizes
- Diameter of 98 mm or 130 mm
- Internal stainless steel tube for maximum stability
- Connection via BSP or NPT male thread on the stainless steel tube
- Available with optional, integrated check valves (Type SDB-CV)
- Replaceable Drying Agent
- Replaceable Air Breather Element (Type SGB) Micron rating of the Air Breather Element: 3 µm
- Refill and Maintenance Kits available
- Extensive range of accessories
- Operating temperature range: -40°C ... +90°C / -40°F ... +194°F

The optional spring-loaded check valves integrated in the housing isolate the dryer material outside the from the atmosphere and optimise the service life.

A change in the color of the desiccant material indicates that it needs to be replaced (from red to orange in the standard version). Saturated Drying Agent, as well as the screw-on spin-on element, can be easily replaced by the user if necessary. Corresponding refill and maintenance kits are available from STAUFF

Pressure Drop Flow Curves





Accessories / Spare Parts

Adaptor Plate

• for Size 093 and 096:

• for Size 121 and 122:

Contamination Indicators (Requires Adaptor Plate)

Visual Contamination Indicator:

Visual-Electrical Contamination Indicator:

Air Breather Element (with Seal)

for Size 093 and 096: • for Size 121 and 122:

KIT-SDB-090-MAINTAIN for Size 093 and 096: • for Size 121 and 122: KIT-SDB-120-MAINTAIN

Please see page 53 for details.

Refill and Maintenance Kits

Drying Agent Refill (supplied in air tight container)

• for Size 093:

AP-2 • for Size 096: • for Size 121:

AP-1

SGB-090-03-B

• for Size 122:

Active Carbon Refill (supplied in air tight container)

RC-093/096/121 • for Size 093, 096 and 121: ■ for Size 122: RC-122

SGB-120-03-B Please note: Use one layer of active carbon (1/3) and one layer of regular drying agent (2/3).

Oil Demister

RD-093

RD-096

RD-121

RD-122

• for Size 093 and 096, 121 and 122

Adaptor Ring (Only for combination SDB+SDBL)

 for Size SDB-121/122 with SDBL-121/122 PSU-HC

Please see page 53 for details.



TBA-...-OD

(Robust Design)

Type SDB

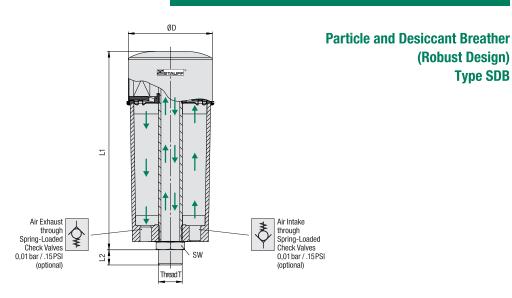


Drying Agent

Changes Colour with increasing moisture



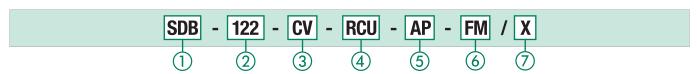
This product does not contain any dangerous substances according to EC Council directives 99/45/EC and 2001/60/EC.

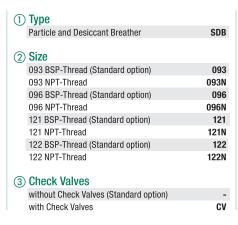


Dimensions and Technical Data

Туре	Thread T	Dime	Dimensions			Weight	Max. Water	Air Breather Element			
		(mm/ _{in)}	L1	L2	Hex	(g/ _{lbs)} Complete Unit	Absorption (9/lbs)	Type	Filter Material	Micron Rating	Max. Air Flow Rate
0DD 000	G3/4 BSP	98	160	18	32	1200	86		Inorganic Glass		0,70 m ³ /min
SDB-093	Male (ISO 228)	3.86	6.30	.71	1.26	2.65	.19	SGB-090-03-B	Fibre	3µm	24.71 cfm
SDB-093N	1 NPT Male	98	160	24	38	1200	86	SGB-090-03-B	Inorganic Glass	3µm	0,70 m ³ /min
2DD-093M	(ANSI B1.20.1)	3.86	6.30	.94	1.50	2.65	.19	30B-090-03-B	Fibre	ομιιι	24.71 cfm
SDB-096	G3/4 BSP Male	98	220	18	32	1500	172	SGB-090-03-B	Inorganic Glass	2	0,70 m³/min
200-090	(ISO 228)	3.86	8.66	.71	1.26	3.31	.38	Sub-090-03-B	Fibre	3µm	24.71 cfm
SDB-096N	1 NPT Male	98	220	24	38	1500	172	SGB-090-03-B Inorganic Glass Fibre	Inorganic Glass	3µm	0,70 m³/min
2ND-030M	(ANSI B1.20.1)	3.86	8.66	.94	1.50	3.31	.38		ομιι	24.71 cfm	
SDB-121	G1-1/4 BSP Male	130	258	25	50	2700	288	SGB-120-03-B	Inorganic Glass	3µm	1,50 m³/min
9ND-121	(ISO 228)	5.12	10.16	.98	1.98	5.92	.63	3GD-12U-U3-B	Fibre	ομιι	52.97 cfm
SDB-121N	1-1/4 NPT Male	130	270	24	50	2700	288	— SGR-120-03-B	Inorganic Glass Fibre	0	1,50 m³/min
PDB-151M	(ANSI B1.20.1)	5.12	10.63	.94	1.98	5.92	.63			3µm	52.97 cfm
SDB-122	G1-1/4 BSP Male	130	355	25	50	4000	576	000 400 00 0	Inorganic Glass	3µт	1,50 m³/min
122 - סטט	(ISO 228)	5.12	13.98	.98	1.98	8.82	1.27	SGB-120-03-B	Fibre	ομίΙΙ	52.97 cfm
SDB-122N	1-1/4 NPT	130	367	24	50	4000	576	SGB-120-03-B	Inorganic Glass Fibre	0	1,50 m³/min
2DD-12ZN	Male (ANSI B1.20.1)	5.12	14.45	.94	1.98	8.82	1.27			3µт	52.97 cfm

Order Codes





Drying Agent	
Standard Drying Agent (Standard option)	_
25% Silica gel + 75% Molecular sieve	
Active Carbon Drying Agent	
1/3 Active Carbon + 2/3 Standard Drying Agent	RCU
for binding oil mist (standard)	
Active Carbon Drying Agent	
1/3 Active Carbon + 2/3 Standard Drying Agent	RCL
to prevent odours	
Alternative Drying Agent on request.	
(5) Adaptor Plate	
without Adaptor Plate (Standard option)	-
with Adaptor Plate	AP

Please see page 52 for details.

6 Contamination Indicators

without Contamination Indicator (Standard option) with Visual Contamination Indicator FΜ (Requires Adaptor Plate) with Visual-Electrical Contamination Indicator **FME** (Requires Adaptor Plate)

Please see page 52 for details.

7 Design Code

Only for information

ESTAUFF ®

Particle and Desiccant Breather (Compact Design) Type SDBL



Characteristics

Function

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

Using SDBL series Particle and Desiccant Breathers, the incoming air first passes through a coarse filter, then a dryer agent material and finally an Air Breather element to filter out any dirt particles in addition to the moisture.

Description

The SDBL series from STAUFF is a compact and flexible design that are used, for example, in power pack and reservoir manufacturing.

Available in five different housing lengths between 117,5 mm and 322,5 mm and have a diameter of 70 mm, 99 mm or 129 mm depending on the selected length.

The UV-resistant one piece plastic housing is designed with a female BSP thread on the bottom. The Particle and Desiccant Breather can be installed with a adaptor.

Features

- Available in 5 different sizes
- Diameter of 70 mm, 99 mm or 129 mm
- One piece plastic housing
- BSP Female connection thread on plastic housing
- Available with optional, integrated check valves (Type SDBL-CV)
- Replaceable Drying Agent
- Replaceable Air Breather Element under the plastic cap, Micron rating of the Air Breather Element: 3 µm
- Refill and Maintenance Kits available
- Extensive range of accessories

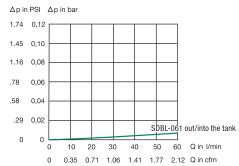
and optimising the service life.

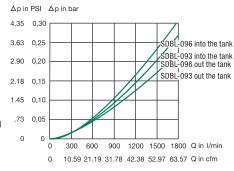
Operating temperature range:
 -40°C ... +90 °C / -40 °F ... +194 °F

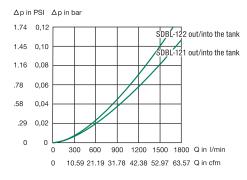
The optional spring-loaded check valves integrated in the housing isolate the dryer material outside the from the atmosphere

A change in the color of the desiccant material indicates that it needs to be replaced (from red to orange in the standard version). Saturated dryer agent material, as well as the Air Breather element, which is placed under the plastic cap, can be easily replaced by the user if necessary. Corresponding refill and maintenance kits are available from STALIFF

Pressure Drop Flow Curves







Accessories / Spare Parts

Adaptor Plate

for Size 093 and 096:for Size 121 and 122:

Contamination Indicators (Requires Adaptor Plate)

Visual Contamination Indicator:

Visual-Electrical Contamination Indicator:

Refill and Maintenance Kits

for Size 060: KIT-SDBL-060-MAINTAIN
 for Size 093 and 096: KIT-SDBL-090-MAINTAIN
 for Size 121 and 122: KIT-SDBL-120-MAINTAIN

• for Size 121 and 122: KII-SI
Please see page 53 for details.

Drying Agent Refill (supplied in air tight container)

 AP-1
 • for Size 061:
 RD-061

 AP-2
 • for Size 093:
 RD-093

 • for Size 096:
 RD-096

 • for Size 121:
 RD-121

 FM
 • for Size 122:
 RD-122

Active Carbon Refill (supplied in air tight container)

for Size 093, 096 and 121:

RC-093/096/121

• for Size 122: RC-122

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

Valve Unit with Reservoir Pressurisation (0.35 bar)

■ for Size 121 and 122: PSU-P

Valve Unit with Bypass Valves

■ for Size 121 and 122: PSU-QE

Oil Demister Insert

for Size 093 and 096:
 for Size 121 and 122:
 PSU-0D-090
 PSU-0D-120

Adaptor Ring (Only for combination SDB+SDBL)

• for Size SDB-121/122 with SDBL-121/122 **PSU-HC** Please see page 53 for details.





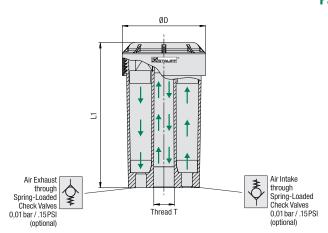
Particle and Desiccant Breather (Compact Design) Type SDBL

Drying Agent

Changes Colour with increasing moisture



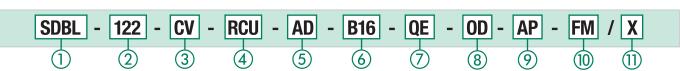
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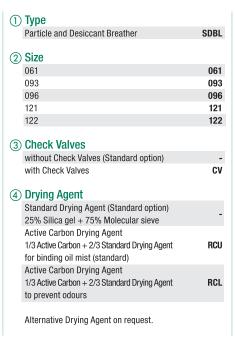


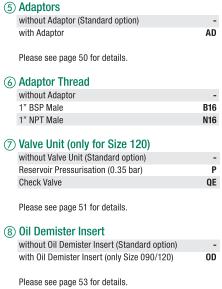
Dimensions and Technical Data

Туре	Thread T	Dimensions		Weight	Max. Water	Air Breather Element			
		(mm/ _{in)} ØD	Li	(g/ _{lbs)} Complete Unit	Absorption (g/lbs)	Туре	Filter Material	Micron Rating	Max. Air Flow Rate
	G3/8 BSP	70,5	117,5	250	29		Inorganic Glass	3µm	0,05 m ³ /min
SDBL-061	Female (ISO 228)	2.78	4.63	.55	.06	LUF-SDBL-061-E03	Fibre		1.77 cfm
	G3/4 BSP	99		LUE ODDI OGG FOO	Inorganic Glass		0,70 m ³ /min		
SDBL-093	Female (ISO 228)	3.90	4.70	1.10	.19	LUF-SDBL-093-E03	Fibre	3µт	24.71 cfm
ODDI 000	G3/4 BSP	99	174,5	770	172	LUF-SDBL-096-E03	Inorganic Glass		0,70 m ³ /min
SDBL-096	Female (ISO 228)	3.90	5.81	1.70	.38		Fibre	3µm	24.71 cfm
ODDI 404	G 1-1/4 BSP	129	204,5	1380	288	LUE ODDI 101 FOO	Inorganic Glass	0	1,50 m ³ /min
SDBL-121	Female (ISO 228)	5.08	8.05	3.04	.63	LUF-SDBL-121-E03	Fibre	3µm	52.97 cfm
ODDI 400	G 1-1/4 BSP	129	322,5	2300	576	LUE ODDI 100 E00	Inorganic Glass	0	1,50 m³/min
SDBL-122	Female (ISO 228)	5.08	12.70	5.07	1.27	LUF-SDBL-122-E03	Fibre	3µm	52.97 cfm

Order Codes









Desiccant Breather (Simplified Design) **Type SVDB**



Characteristics

Function

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

Using SVDB series Desiccant Breathers, the incoming air first passes through a coarse filter, then a Drying Agent and finally an PU washer to filter out rough dirt particles.

Description

The SVDB series from STAUFF is a simplified design for less demanding applications. In contrast to the SDB and SDBL series, Desiccant Breathers of the SVDB series must be replaced when the service life of the Complete Unit is reached.

Available in five different housing lengths between 96,5 mm and 286,5 mm and have a diameter of 63 mm, 91 mm or 121 mm depending on the selected length.

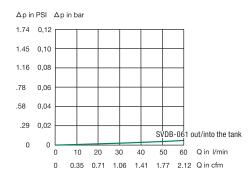
Features

- Available in 5 different sizes
- Diameter of 63 mm, 91 mm or 121 mm
- Drying Agent und Air Breather Element is not replaceable
- One piece plastic housing
- BSP Female connection thread on plastic housing
- Filter Fineness of the PUR filter disc: 100 μm
- Operating temperature range:
- -40°C ... +90°C / -40°F ... +194°F

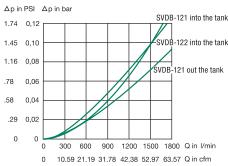
The UV-resistant one piece plastic housing is designed with a female BSP thread on the bottom. The Particle and Desiccant Breather can be installed with a adaptor.

A change in the color of the desiccant material indicates that it needs to be replaced (from red to orange in the standard version). Saturated Drying Agent is not replaceable, so that the entire unit is disposed of when it reaches the end of its service

Pressure Drop Flow Curves







Accessories

Adaptor Plate

for Size 093 and 096: AP-1 • for Size 121 and 122: AP-2

Please see page 52 for details.

Adaptors

 Several thread combinations available Please see page 50 for details.

Valve Unit with Reservoir Pressurisation (0.35 bar)

PSII-P • for Size 121 and 122: Please see page 51 for details.

Valve Unit with Check Valves

■ for Size 121 and 122: PSU-QE Please see page 51 for details.

Oil Demister Insert

• for Size 093 and 096: PSU-0D-090 PSU-0D-120 • for Size 121 and 122:

Please see page 53 for details.



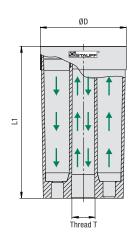
Desiccant Breather (Simplified Design) **Type SVDB**

Drying Agent

Changes Colour with increasing moisture



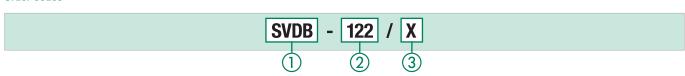
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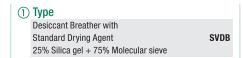


Dimensions and Technical Data

Туре	Thread T	Dimensions	Dimensions		Max. Water	x. Water PUR filter disc	
		(mm/ _{in)}		(g/ _{lbs)}	Absorption	Filter	Max. Air
		ØD	L1	Complete Unit	(g/ _{lbs)}	Material	Flow Rate
0100 004	G3/8 BSP	63	96,5	182	29	DUD	0,05 m³/min
SVDB-061	Female (ISO 228)	2.48	3.80	.40	.06	PUR	1.77 cfm
SVDB-093	G3/4 BSP Female	91	106,5	375	86	PUR	0,70 m³/min
3400-093	(ISO 228)	3.58	4.19	.83	.19	run	24.71 cfm
SVDB-096	G3/4 BSP Female	91	161,5	630	172	PUR	0,70 m³/min
3400-090	(ISO 228)	3.58	6.36	1.39	.38	ron	24.71 cfm
SVDB-121	G 1-1/4 BSP Female	121	168,5	1100	288	PUR	1,50 m³/min
3400-121	(ISO 228)	4.76	6.63	2.43	.63	run	52.97 cfm
SVDB-122	G 1-1/4 BSP	121	286,5	2035	576	PUR	1,50 m³/min
3VD-122	Female (ISO 228)	4.76	11.28	4.49	1.27	ron	52.97 cfm

Order Codes





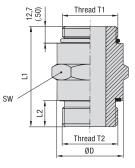




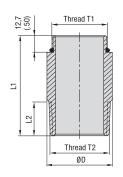
Alternative types on request.

Adaptors Type TBA

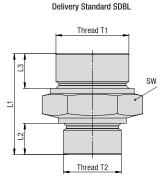








TBA-120-N20-B



TBA-090-N16 TBA-090-B16 TBA-120-N16 TBA-120-B16 TBA-120-B20

Dimensional drawings: All dimensions in mm (in).

Characteristics

Allows direct installation of Desiccant Breathers and Spin-On Filter Elements with female thread on top of hydraulic reservoirs

Features

- Several thread combinations available
- TBA-120-N20-B-W32 without hexagon
- Seals included in delivery (Only for type "TBA-...-B")
- Also suits most common Spin-On filter elements

Materials

- Adaptor made of steel, zinc-plated
- Seals made of NBR (Buna-N®)

Contact STAUFF for alternative materials.

Order Codes and Dimensions

Thread T1	Thread T2		nsions L2		ØD.	cw	for use with	Order Codes
		L1		L3	ØD	SW		
G3/8 BSP Male	G3/8 BSP Male	43	11		21,9	22	SDBL-061 / SVDB-061	TBA-060-B06-B-W32
(ISO 228)	(ISO 228)	1.69	.43		.86	.86		
G3/4 BSP Male	G3/4 BSP Male	57	16		32	32	SDBL-093 / SVDB-093 SDBL-096 / SVDB-096	TBA-090-B12-B-W32
(ISO 228)	(ISO 228)	2.24	.63		1.26	1.26	Air Breather SGB-090	15A 030 512 5 W02
G3/4 BSP	G1 BSP	49	20	19,2		41	SDBL-093 / SVDB-093	
Male (ISO 228)	Male (ISO 228)	1.93	.79	.76		1.61	SDBL-096 / SVDB-096	TBA-090-B16-W32
G3/4 BSP	1 NPT	53,5	23,5	17		38	SDBL-093 / SVDB-093	TDA 000 NAC W00
Male (ISO 228)	Male (ANSI B1.20.1)	2.11	.93	.67		1.50	SDBL-096 / SVDB-096	TBA-090-N16-W32
G1-1/4 BSP	3/4 NPT	60,5	23,5	20		50	SDBL-121 / SVDB-121	TDA 100 N4C W22
Male (ISO 228)	Male (ANSI B1.20.1)	2.38	.93	.79		1.97	SDBL-122 / SVDB-122	TBA-120-N16-W32
G1-1/4 BSP	G1 BSP	58	18	20		50	SDBL-121 / SVDB-121	
Male (ISO 228)	Male (ISO 228)	2.28	.71	.79		1.97	SDBL-122 / SVDB-122	TBA-120-B16-W32
G1-1/4 BSP	G1-1/4 BSP	76	20		50	50	SDBL-121 / SVDB-121	TDL 400 DOS D WOO
Male (ISO 228)	Male (ISO 228)	3.00	.79		1.97	1.97	SDBL-122 / SVDB-122 Air Breather SGB-120	TBA-120-B20-B-W32
G1-1/4 BSP	G1-1/4 BSP	60	20	20		50	SDBL-121 / SVDB-121 SDBL-122 / SVDB-122	TDA 100 DOG 1400
Male (ISO 228)	Male (ISO 228)	2.36	.79	.79		1.97		TBA-120-B20-W32
G1-1/4 BSP	1-1/4 NPT	76	22		42		SDBL-121 / SVDB-121	TPA 100 NOO D WOO
Male (ISO 228)	Male (ANSI B1.20.1)	3.00	.88		1.65		SDBL-122 / SVDB-122 Air Breather SGB-120	TBA-120-N20-B-W32



SW41 (Hex 1.61) 93 (3.12)

Ø50 (Ø1.97)

Dimensional drawings: All dimensions in mm (in).

Characteristics

Valve Units type PSU-P-TF increase the service life and reduce maintenance intervals of particle and desiccant breathers and tank filler breathers due to less air movement

Features

- Thread: G3/4 BSP Female (ISO 228)
- · Reservoir Pressurisation with 0.35 bar / 5 PSI (no air is expelled from the reservoir until the pressurisation level is reached)
- Intended for Particle and Desiccant Breather series SDB. with adaptor also suitable with series SDBL and SVDB and also with breathers SPB and SMBT.

Materials

- Adaptor made of Aluminum
- Valves made of plastic
- Seals made of NBR (Buna-N®)
- Operating temperature range:

-40 °C ... +120 °C / -40 °F ... +248 °F

Valve Unit Type PSU-P-TF

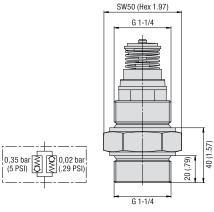


Order Code

Order Code

TBA-090-B12F-B12F-B0.35

Valve Unit Type PSU-P



Dimensional drawings: All dimensions in mm (in).

Characteristics

Valve Units type PSU-P allows the maintaining of the Reservoir Pressurisation from 0.35 bar / 5 PSI.

Attached to the internal thread of the Desiccant Breather housing (only for type SDBL/SVDB-121 and SDBL/ SVDB -122) and designed in such a way that the overall length of the Desiccant Breather is only slightly increased. Due to its installation in the housing, the valve unit cannot be combined with the oil demister insert of type PSU-OD.

Features

- Thread: G1-1/4 BSP Male (ISO 228)
- Reservoir Pressurisation with 0.35 bar / 5 PSI (no air is expelled from the reservoir until the pressurisation level is reached)
- Opening Pressure: 0.02 bar / .29 PSI (Air flow into the Tank)

Materials

- · Adaptor made of steel, zinc-plated
- Valves made of plastic
- Seals made of NBR (Buna-N®)
- . Operating temperature range: -40 °C ... +120 °C / -40 °F ... +248 °F

Order Code

Order Code

TBA-SDBL-120-B20-B0.35-P

Characteristics

Valve Units type PSU-QE are used to discharge outflowing air (with the 6 valves on the hexagon) past the Drying Agent to extend the service life.

Attached to the internal thread of the Desiccant Breather housing (only for type SDBL/SVDB-121 and SDBL/SVDB -122) and designed in such a way that the overall length of the Desiccant Breather is only slightly increased. Due to installation in the housing, the valve unit cannot be combined with the oil demister insert of type PSU-OD.

Features

- Thread: G1-1/4 BSP Male (ISO 228)
- Opening Pressure of the Check Valves: 0.02 bar / .29 PSI (Air flow into and out the Tank)
- Check Valve with 0.35 bar / 5 PSI

Materials

- Adaptor made of steel, zinc-plated
- Valves made of plastic
- Seals made of NBR (Buna-N®)
- Operating temperature range: -40 °C ... +120 °C / -40 °F ... +248 °F

Valve Unit Type PSU-QE



Order Code

Order Code

TBA-SDBL-120-B20-B0.35-QE



0,35 bar

(5 PSI)

WK)

0,02 bar (.29 PSI)

0.02 bar

Dimensional drawings: All dimensions in mm (in).

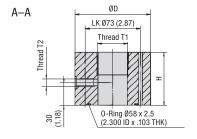
www.stauff.com/10/en/#51

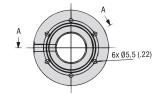
SW65 (Hex 2.56)

G 1-1/4

Adaptor Plate Type AP







Dimensional drawings: All dimensions in mm (in).

Characteristics

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

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/FME.

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.

Contact STAUFF for other Adaptor Plates.

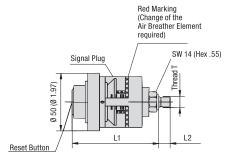
Order Codes and Dimensions

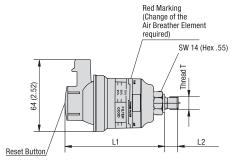
Thread T1	Thread T2	Dimension	mensions (mm/in) Socket Cap		for use with	Order Code
		Н	ØD	Screws included		
G3/4 BSP Female	G1/8 BSP Female	50	88	M5 x 60 - 8.8	SDB-093/096 SBDL-093/096 SVDB-093/096	AP-1-B12F
(ISO 228)	(ISO 228)	1.98	3.46	(Steel, zinc-plated)		
G1-1/4 BSP	G1/8 BSP	70	100	M5 x 80 - 8.8	SDB-121/122	AD 0 D005
Female (ISO 228)	Female (ISO 228)	2.76	3.94	(Steel, zinc-plated)	SBDL-121/122 SVDB-121/122	AP-2-B20F

Contamination Indicators Type FM/FME

Particle and Desiccant Breather SDB with Adaptor Plate AP and Visual Contamination Indicator FM or Visual-**Electrical Contamination** Indicator FME







Dimensional drawings: All dimensions in mm (in).

Characteristics

Designed to indicate the status of Air Breather Elements.

Filter Minder Contamination Indicators are connected to the give a indication of the contamination level of the Air Breather Element. A red marking indicates when the Air Breather Element has to be replaced.

Visual Contamination Indicators FM can be reset after each

Housing made of Polycarbonate

 Operating temperature range: -40 °C ... +121 °C (-40 °F ... +250 °F)

±10% (red marking) Accuracy: Standard Calibration: 2 to 8.7 kPA ■ Full Scale (Vacuum): 5,0 kPa (20 IN.) Vacuum First Movement: 1,5 kPa (6 IN.)

Technical Data (FME)

■ Electrical Connection (FME): Metri-Pack 150 plug

■ Switching Function Type FME: n/o

Switching Voltage: 300 VDC Max. Voltage Breakdown: 450 VDC Max. Switching Current: 1,20 A Max. Carrying Current: 0.50 A Max.

Order Codes und Dimensions

Thread T	Dimensions (m	^m / _{in)} L2	Order Code	
G1/8 BSP Male	75	10	FM	
(ISO 228)	2.54	.39	LIM	
G1/8 BSP Male	88	10	EME	
(ISO 228)	3.46	.39	FME	





Order Codes und Dimensions

Dimensions (mm/in) Length	Diameter	Order Code		
140	60			
5.51	2.36	TBA-090-B-0D-140		
210	60	TDA 000 D 0D 040		
8.27	2.36	TBA-090-B-0D-210		

Dimensional drawings: All dimensions in mm (in).

Characteristics

Designed to prevent oil mist from leaving the hydraulic reservoir through Desiccant Breathers and other breathers

Features

- Available in 2 different sizes with lengths of 140mm / 5.51in or 210mm / 8.27in
- Intended for Particle and Desiccant Breather series SDB, with adaptor also suitable with series SDBL and SVDB

Materials

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

Reservoir Port: Male G3/4 BSP Reservoir Port: Male G3/4 BSP

(ISO 228)

Order Codes

for use with	Order Code
SDBL/SVDB-093/096	PSU-0D-090
SDBL/SVDB-121/122	PSU-0D-120

Characteristics

The Oil Demister Insert reduces oil mist from leaving the hydraulic reservoir and is placed inside the Desiccant Breather housing so that the overall length of the Desiccant Breather is not increased. The use of a adaptor is recommended. Due to its placement in the internal thread of the housing, the oil demister insert cannot be combined with valve units of types PSU-P and PSU-QE.

Features

- Available in 2 different sizes
- Intended for series SDBL and SVDB (only Size 090/120)

Material

Stainless Steel

Oil Demister Insert Type PSU-OD



Order Codes

for use with	Order Code
SDB-121/122 with SDBL-121/122	RING-SDB-120-PSU-HC

Characteristics

Creates a safe seal when using the stacking feature of the Particle and Desiccant Breathers

- Adaptor Ring for Stacking Assembly version SDB+SDBL
- Doubling of the water absorption capacity and Maintenance intervals
- Permanent or temporary mounting (alternative for mounting an additional Particle and Desiccant Breather)
- Type SDB is the basis to ensure the necessary stability (Maximum 2 levels possible)
- Under certain circumstances, additional attachment of the upper level to the SDBL is recommended

Adaptor Ring for Stacking Assembly Type PSU-HC





Order Codes

for use with	Order Code
SDB-093/096	KIT-SDB-090-MAINTAIN
SDB-121/122	KIT-SDB-120-MAINTAIN
SDBL-061	KIT-SDBL-060-MAINTAIN
SDBL-093/096	KIT-SDBL-090-MAINTAIN
SDBL-121/122	KIT-SDBL-120-MAINTAIN

Characteristics

Saturated Drying Agent and the Air Breather Element can be easelie replaced by the user with the Refill and Maintenance Kit.

Scope of delivery

- Drying Agent Refill
- Air Breather Element
- PUR Filter discs
- Sealing (only for KIT-SDB-...)
- Thread plugs
- Seal sticker

Individual spare parts are also available separately on request. Please contact STAUFF for further information.

Refill and Maintenance Kits Type KIT-...-MAINTAIN

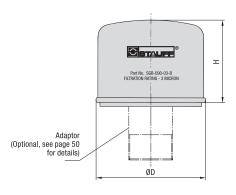


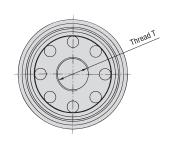




Particle Breather (Air Breather Element) Type SGB







Characteristics

Replaceable Air Breather Elements for STAUFF Particle and Desiccant Breathers.

They can also be used with an Adaptor as seperate air filters for hydraulic reservoirs.

Characteristics

- Diameter of 68 mm / 2.68 in (SGB-060), 100 mm / 3.94 in (SGB-090) or 130 mm / 5.12 in (SGB-120)
- Equipped with female BSP thread (ISO 228)
- Including sealing made of NBR (Buna-N®)
- Operating temperature range: -32 °C ... +100 °C / -25 °F ... +212 °F

Accessories / Options

 Adaptors (for direct installation on top of hydraulic reservoirs)

Please see page 50 for a selection of adaptors available.

Air Flow

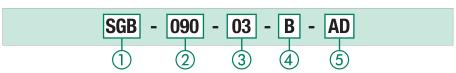
Maximum air flow rates: $0.05\,\mathrm{m}^3/\mathrm{min}$ / $1.77\,\mathrm{cfm}$ for SGB-060 $0.70 \, \text{m}^3 / \text{min} / 24.71 \, \text{cfm for SGB-090}$ 1,50 m3/min / 52.97 cfm for SGB-120

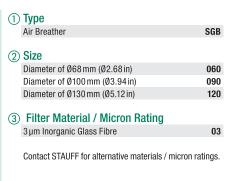
Dimensions and Filter Specifications

Туре	Thread T* Dimensions (mm/in)		ions (mm/in)	Filter	Micron	Max. Air
		ØD	Н	Material	Rating	Flow Rate
SGB-060-03-B	M20 x 1,5 Female	68	60	Inorganic Glass	3 µm	0,05 m ³ /min
	(ISO 13-2)	2.68	2.36	Fibre		1.77 cfm
SGB-090-03-B	G3/4 BSP Female	100	64	Inorganic Glass	3 µm	0,70 m ³ /min
	(ISO 228)	3.94	2.52	Fibre		24.71 cfm
SGB-120-03-B	G1-1/4 BSP Female	130	100	Inorganic Glass	′ 311m	1,50 m³/min
	(ISO 228)	5.12	3.94	Fibre		52.97 cfm

* Adaptors (BSP/BSP and BSP/NPT) are available. Please see page 50 for details.

Order Codes





4 Connection Thread

Female BSP thread (according to dimension table)

⑤ Adaptors

without Adaptor (Standard option) with Adaptor TBA-090-B (for SGB-090-03-B) or AD TBA-120-B (for SGB-120-03-B)

Please see page 50 for a selection of adaptors available, and contact STAUFF for further information.



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