

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 an adaptor.

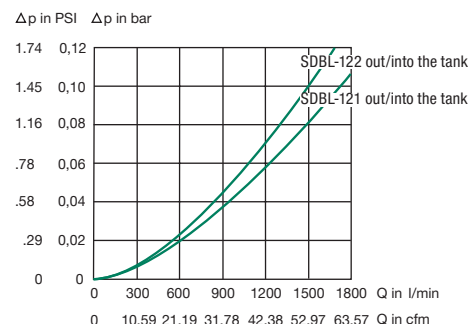
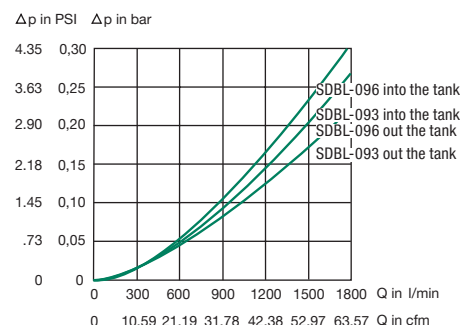
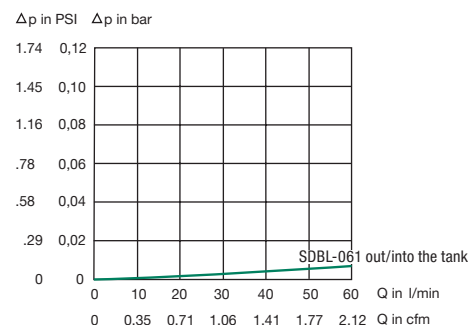
Features

- 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
- 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 optimising 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 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 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:

Refill and Maintenance Kits

- for Size 060:
 - for Size 093 and 096:
 - for Size 121 and 122:
- Please see page 53 for details.

KIT-SDBL-060-MAINTAIN
KIT-SDBL-090-MAINTAIN
KIT-SDBL-120-MAINTAIN

Drying Agent Refill (supplied in air tight container)

- AP-1** ▪ for Size 061:
AP-2 ▪ for Size 093:
▪ for Size 096:
▪ for Size 121:
FM ▪ for Size 122:
FME

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).

RD-061
RD-093
RD-096
RD-121
RD-122

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-OD-090

PSU-OD-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.

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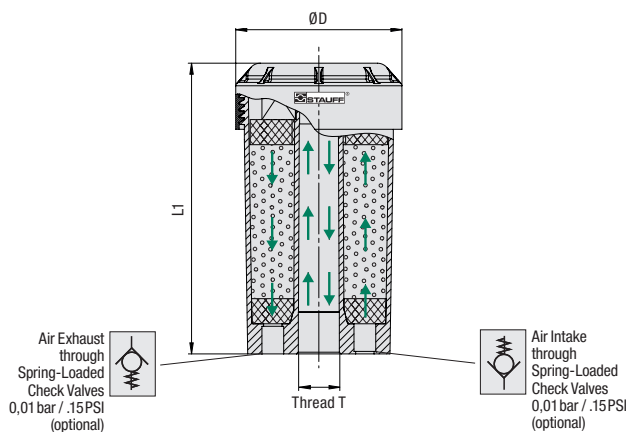
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Drying Agent

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

Type	Thread T	Dimensions (mm/in)		Weight (g/lbs) Complete Unit	Max. Water Absorption (g/lbs)	Air Breather Element Type	Filter Material	Micron Rating	Max. Air Flow Rate
		ØD	L1						
SDBL-061	G3/8 BSP Female (ISO 228)	70,5	117,5	250	29	LUF-SDBL-061-E03	Inorganic Glass Fibre	3µm	0,05 m³/min
		2.78	4.63	.55	.06				1.77 cfm
SDBL-093	G3/4 BSP Female (ISO 228)	99	119,5	500	86	LUF-SDBL-093-E03	Inorganic Glass Fibre	3µm	0,70 m³/min
		3.90	4.70	1.10	.19				24.71 cfm
SDBL-096	G3/4 BSP Female (ISO 228)	99	174,5	770	172	LUF-SDBL-096-E03	Inorganic Glass Fibre	3µm	0,70 m³/min
		3.90	5.81	1.70	.38				24.71 cfm
SDBL-121	G 1-1/4 BSP Female (ISO 228)	129	204,5	1380	288	LUF-SDBL-121-E03	Inorganic Glass Fibre	3µm	1,50 m³/min
		5.08	8.05	3.04	.63				52.97 cfm
SDBL-122	G 1-1/4 BSP Female (ISO 228)	129	322,5	2300	576	LUF-SDBL-122-E03	Inorganic Glass Fibre	3µm	1,50 m³/min
		5.08	12.70	5.07	1.27				52.97 cfm

Order Codes

SDBL	-	122	-	CV	-	RCU	-	AD	-	B16	-	QE	-	OD	-	AP	-	FM	/	X
①		②		③		④		⑤		⑥		⑦		⑧		⑨		⑩		⑪

① Type

Particle and Desiccant Breather **SDBL**

② Size

061	061
093	093
096	096
121	121
122	122

③ Check Valves

without Check Valves (Standard option)	-
with Check Valves	CV

④ 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 for binding oil mist (standard)	RCU
Active Carbon Drying Agent	-
1/3 Active Carbon + 2/3 Standard Drying Agent to prevent odours	RCL

Alternative Drying Agent on request.

⑤ Adaptors

without Adaptor (Standard option)	-
with Adaptor	AD

Please see page 50 for details.

⑥ Adaptor Thread

without Adaptor	-
1" BSP Male	B16
1" NPT Male	N16

⑦ Valve Unit (only for Size 120)

without Valve Unit (Standard option)	-
Reservoir Pressurisation (0.35 bar)	P
Check Valve	QE

Please see page 51 for details.

⑧ Oil Demister Insert

without Oil Demister Insert (Standard option)	-
with Oil Demister Insert (only Size 090/120)	OD

Please see page 53 for details.

⑨ Adaptor Plate

without Adaptor Plate (Standard option)	-
with Adaptor Plate	AP

Please see page 52 for details.

⑩ Contamination Indicators

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

Please see page 52 for details.

⑪ Design Code

Only for information	X
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