







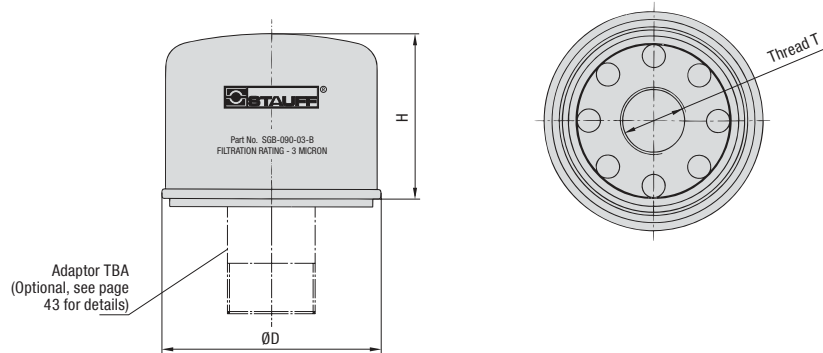


|   |   |                |
|---|---|----------------|
|   | <b>Giant Air Breathers</b>                  | <b>42 - 43</b> |
|    | <b>Giant Air Breather</b><br>SGB            | <b>42</b>      |
|    | <b>Air Breather Adaptor</b><br>TBA          | <b>43</b>      |
|   | <b>Desiccant Air Breathers</b>              | <b>44 - 47</b> |
|    | SDB   | <b>44</b>      |
|    | SVDB (Disposable Version)                   | <b>45</b>      |
|    | SDB-CV (with Check Valves)                  | <b>46</b>      |
|    | <b>Adaptor Plate</b><br>AP                  | <b>47</b>      |
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## Giant Air Breather Type SGB



### Characteristics

Originally designed to be used as replaceable air filter elements for STAUFF Desiccant Breathers, they can also be used as separate air filters for hydraulic reservoirs

#### Features

- Diameter of Ø68 mm / Ø2.68 in (SGB-060), Ø100 mm / Ø3.94 in (SGB-090) or Ø130 mm / Ø5.12 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 43 for a selection of adaptors available, and contact STAUFF for further information.

#### Air Flow

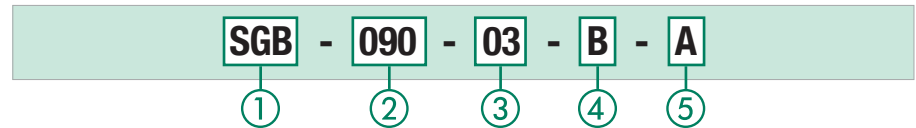
- Maximum air flow rates:  
0,05 m³/min / 1.77 cfm for SGB-060,  
0,70 m³/min / 24.71 cfm for SGB-090, and  
1,50 m³/min / 52.97 cfm for SGB-120

### Dimensions and Filter Specifications

| Type         | Thread T*                   | Dimensions (mm/in) |      | Filter Material | Micron Rating | Filter Surface | Max. Air Flow Rate |
|--------------|-----------------------------|--------------------|------|-----------------|---------------|----------------|--------------------|
|              |                             | ØD                 | H    |                 |               |                |                    |
| SGB-060-03-B | Female M20 x 1,5 (ISO 13-2) | 68                 | 60   | Synthetic Fibre | 3 µm          | 415 cm²        | 0,05 m³/min        |
|              |                             | 2.68               | 2.36 |                 |               | 63 in²         | 1.77 cfm           |
| SGB-090-03-B | Female G3/4 BSP (ISO 228)   | 100                | 64   | Synthetic Fibre | 3 µm          | 752 cm²        | 0,70 m³/min        |
|              |                             | 3.94               | 2.52 |                 |               | 115 in²        | 24.71 cfm          |
| SGB-120-03-B | Female G1-1/4 BSP (ISO 228) | 130                | 100  | Synthetic Fibre | 3 µm          | 2095 cm²       | 1,50 m³/min        |
|              |                             | 5.12               | 3.94 |                 |               | 320 in²        | 52.97 cfm          |

\* Use adaptors TBA to change female BSP thread into male BSP or male NPT thread. Please see page 43 for details.

### Order Codes



#### ① Type

Giant Air Breather **SGB**

#### ② Size

Diameter of Ø68 mm (Ø2.68 in) **060**  
 Diameter of Ø100 mm (Ø3.94 in) **090**  
 Diameter of Ø130 mm (Ø5.12 in) **120**

#### ③ Filter Material / Micron Rating

3 µm Synthetic Fibre **03**

Contact STAUFF for alternative materials / micron ratings.

#### ④ Connection Thread

Female BSP thread (according to dimension table) **B**

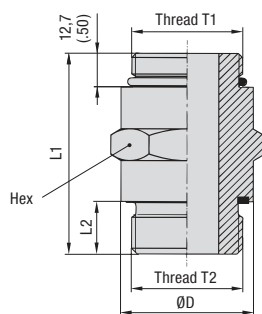
#### ⑤ Adaptor Option

Without adaptor **-**  
 With adaptor TBA-075-B (for SGB-090-03-B) or TBA-125-B (for SGB-120-03-B) **A**

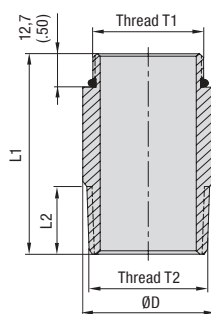
If required, Giant Air Breathers SGB can also be supplied in combination with a wide range of further adaptors. Please see page 43 for a selection of adaptors available, and contact STAUFF for further information.



Breather Adaptor  
Type TBA



TBA-038-B  
TBA-075-B  
TBA-125-B



TBA-075  
TBA-120  
TBA-125



Order Codes and Dimensions

| Thread T1                       | Thread T2                        | Dimensions (mm/in) |      |      |     | For Use with ...*   | Order Code |
|---------------------------------|----------------------------------|--------------------|------|------|-----|---|------------|
|                                 |                                  | L1                 | L2   | ØD   | Hex |   |            |
| Male G3/8 BSP<br>(ISO 228)      | Male G3/8 BSP<br>(ISO 228)       | 43                 | 11   | 21,9 | 22  | Desiccant Air Breathers SDB-061-CV  | TBA-038-B  |
|                                 |                                  | 1.69               | .43  | .86  | .86 |   |            |
| Male 1-12 UNF<br>(ANSI B1.1)    | Male 3/4 NPT<br>(ANSI B1.20.1)   | 51                 | 20   | 27   | 32  | Spin-On Series SF-65  | TBA-075    |
|                                 |                                  | 2.00               | .79  | 1.05 |     |   |            |
| Male G3/4 BSP<br>(ISO 228)      | Male G3/4 BSP<br>(ISO 228)       | 57                 | 16   | 32   | 32  | Giant Air Breathers SGB-090<br>Desiccant Air Breathers SVDB-093<br>Desiccant Air Breathers SVDB-096<br>Spin-On Series SF-35<br>Spin-On Series SF-36 | TBA-075-B  |
|                                 |                                  | 2.24               | .63  | 1.26 |     |   |            |
| Male G1-1/4 BSP<br>(ISO 228)    | Male 1-1/4 NPT<br>(ANSI B1.20.1) | 76                 | 22   | 42   | 32  | Giant Air Breathers SGB-120<br>Spin-On Series SF-57<br>Spin-On Series SF-58   | TBA-120    |
|                                 |                                  | 3.00               | .88  | 1.65 |     |   |            |
| Male 1-1/2-16 UN<br>(ANSI B1.1) | Male 1-1/4 NPT<br>(ANSI B1.20.1) | 76                 | 26   | 45   | 32  | Spin-On Series SF-67  | TBA-125    |
|                                 |                                  | 3.00               | 1.01 | 1.77 |     |   |            |
| Male G1-1/4 BSP<br>(ISO 228)    | Male G1-1/4 BSP<br>(ISO 228)     | 76                 | 20   | 50   | 50  | Giant Air Breathers SGB-120<br>Spin-On Series SF-57<br>Spin-On Series SF-58   | TBA-125-B  |
|                                 |                                  | 3.00               | .79  | 1.97 |     |   |            |

\* Please see Filtration Technology Catalogue for technical details on Spin-On filter elements.

Characteristics

Adopts from female threaded Giant Air Breather or Spin-On Filter Element to a male thread, and thus allows for direct installation on top of hydraulic reservoirs

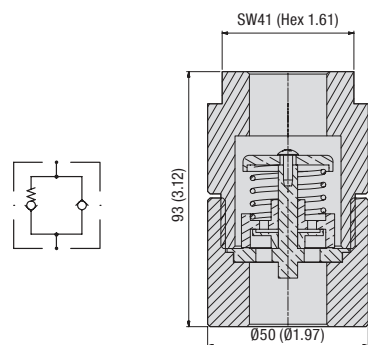
Features

- Several thread combinations available to suit most common Spin-On filter elements
- Versions with male BSP threads on both ends are equipped with hex to simplify installation
- Sealings included in delivery

Materials

- Adaptor made of Steel, zinc-plated
- Sealings made of NBR (Buna-N®)

Contact STAUFF for alternative materials.



Characteristics

Increasing the service life and reducing maintenance intervals of tank filler breathers and desiccant breathers due to less breathing

Features

- Connections: Female G3/4 BSP threads (ISO 228)
- Pressurisation of 0,35 bar / 5PSI (no air is expelled from the reservoir until the pressurisation level is reached)
- 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 and SMBT-80

Materials

- Housing made of Aluminium

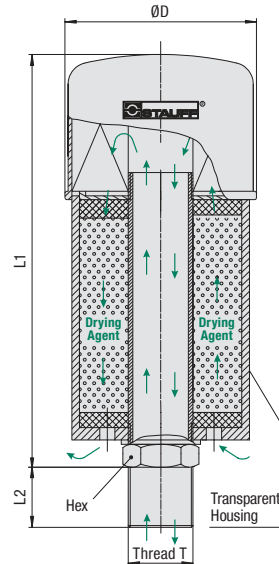
Pressurised Breather Adaptor  
Type TBA-075-P2



Dimensional drawings: All dimensions in mm (in).



## 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

| Type      | Thread T                     | Dimensions<br>(mm/in) |       |      |      | Weight<br>(g/lbs) |              | Volume<br>(cm <sup>3</sup> /in <sup>3</sup> ) | Max. Water<br>Absorption<br>(g/lbs) | Air Filter Elements |                 |                    |                      |                          |
|-----------|------------------------------|-----------------------|-------|------|------|-------------------|--------------|---|-------------------------------------|---------------------|-----------------|--------------------|----------------------|--------------------------|
|           |                              | ØD                    | L1    | L2   | Hex  | Complete Unit     | Drying Agent |   |                                     | Drying Agent        | Type            | Filter<br>Material | Micron<br>Rating     | Filter<br>Surface        |
| SDB-093/2 | Male G3/4 BSP<br>(ISO 228)   | 100                   | 160   | 20   | 32   | 1200              | 225          | 300   | 86                                  | SGB-090-03-B        | Synthetic Fibre | 3µm                | 752 cm <sup>2</sup>  | 0,70 m <sup>3</sup> /min |
|           |                              | 3.94                  | 6.30  | .79  | 1.26 | 2.65              | .50          | 18.3  | .19                                 |                     |                 |                    | 115 in <sup>2</sup>  | 24.71 cfm                |
| SDB-096/2 | Male G3/4 BSP<br>(ISO 228)   | 100                   | 220   | 20   | 32   | 1500              | 450          | 600   | 172                                 | SGB-090-03-B        | Synthetic Fibre | 3µm                | 752 cm <sup>2</sup>  | 0,70 m <sup>3</sup> /min |
|           |                              | 3.94                  | 8.66  | .79  | 1.26 | 3.31              | .99          | 36.6  | .38                                 |                     |                 |                    | 115 in <sup>2</sup>  | 24.71 cfm                |
| SDB-121/2 | Male G1-1/4 BSP<br>(ISO 228) | 130                   | 256   | >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                  | 10.08 | >.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<br>(ISO 228) | 130                   | 366   | >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                  | 14.41 | >.98 | 1.98 | 8.82              | 3.31         | 122.0   | 1.27                                |                     |                 |                    | 320 in <sup>2</sup>  | 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 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:
- for SDB-121/2 and SDB-122/2:

AP-1  
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)

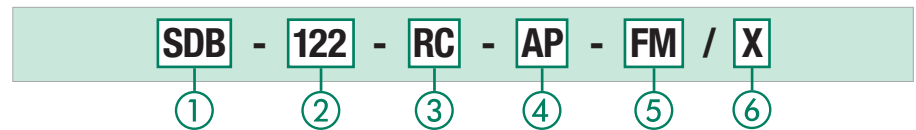
- for SDB-093/2, SDB-096/2 and SDB-121/2 (300 cm<sup>3</sup> / 18.3 in<sup>3</sup>): **RC-093/096/121**
- for SDB-122/2 (600 cm<sup>3</sup> / 18.3 in<sup>3</sup>): **RC-122**

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   | <b>093</b> |
| 172 g / .38 lbs at Ø100 mm / Ø3.94 in  | <b>096</b> |
| 288 g / .63 lbs at Ø130 mm / Ø5.12 in  | <b>121</b> |
| 576 g / 1.27 lbs at Ø130 mm / Ø5.12 in | <b>122</b> |

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 | <b>RC</b> |

#### ④ Adaptor Plate

|                       |           |
|-----------------------|-----------|
| Without adaptor plate | -         |
| With adaptor plate    | <b>AP</b> |

#### ⑤ Contamination Indicator

|  |           |
|--|-----------|
| Without contamination indicator  | -         |
| With visual contamination indicator FM (in conjunction with adaptor plate AP only) | <b>FM</b> |

Please see page 47 for details.

#### ⑥ Design Code

|                      |          |
|----------------------|----------|
| Only for information | <b>X</b> |
|----------------------|----------|

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



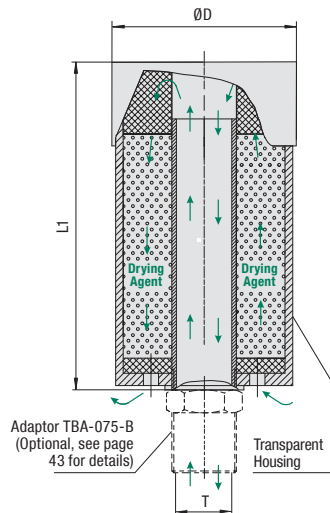
## Desiccant Air Breather (Disposable Version) Type SVDB

### 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

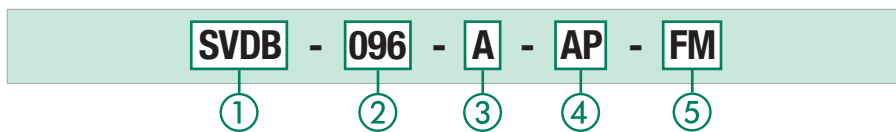
| Type     | Thread T                  | Dimensions (mm/in) |      |     | Weight (g/lbs) |              | Volume (cm <sup>3</sup> /in <sup>3</sup> ) | Max. Water Absorption (g/lbs) | Max. Air Flow Rate       |
|----------|---------------------------|--------------------|------|-----|----------------|--------------|--|-------------------------------|--------------------------|
|          |                           | ØD                 | L1   | L2  | Complete Unit  | Drying Agent | Drying Agent                               |                               |                          |
| SVDB-093 | Female G3/4 BSP (ISO 228) | 94                 | 109  | 18  | 400            | 225          | 300  | 86                            | 0,70 m <sup>3</sup> /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 m <sup>3</sup> /min |
|          |                           | 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 Ø94 mm / Ø3.70 in
- 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



#### 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 TBA-075-B **A**

Please see page 43 for details.  
Contact STAUFF for alternative adaptors.

#### 4 Adaptor Plate

Without adaptor plate -  
With adaptor plate (in conjunction with connection adaptor A only) **AP**

#### 5 Contamination Indicator

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

Please see page 47 for details.

### 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.

### 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**

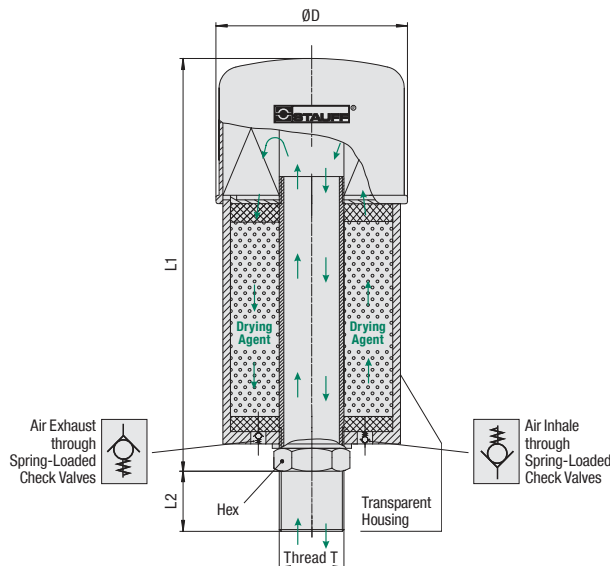
#### Visual contamination indicator

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

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



## 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

| 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 | Filter 67 | Micron Rating        | Filter Surface           | Max. Air Flow Rate  |
|------------|---------------|--------------------|-------|------|------|----------------|--------------|---|--------------|-------------------------------|---------------------|-----------|----------------------|--------------------------|---------------------|
|            |               | ØD                 | L1    | L2   | Hex  | Complete Unit  | Drying Agent | Drying Agent                                | Drying Agent |                               |                     |           |                      |                          |                     |
| SDB-061-CV | Female G3/8   | 68                 | 143   | 14   | 22   | 350            | 75           | 100   | 29           | SGB-060-03-B                  | Synthetic Fibre     | 3µm       | 415 cm <sup>2</sup>  | 0,05 m <sup>3</sup> /min |                     |
|            | BSP (ISO 228) | 2.68               | 5.63  | .55  | .87  | .77            | .17          | 6.1   | .06          |                               |                     |           |                      |                          | 63 in <sup>2</sup>  |
| SDB-096-CV | Male G3/4     | 100                | 220   | 20   | 32   | 1500           | 450          | 600   | 172          | SGB-090-03-B                  | Synthetic Fibre     | 3µm       | 752 cm <sup>2</sup>  | 0,70 m <sup>3</sup> /min |                     |
|            | BSP (ISO 228) | 3.94               | 8.66  | .79  | 1.26 | 3.31           | .99          | 36.6  | .38          |                               |                     |           |                      |                          | 115 in <sup>2</sup> |
| SDB-121-CV | Male G1-1/4   | 130                | 256   | >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 |                     |
|            | BSP (ISO 228) | 5.12               | 10.08 | >.98 | 1.98 | 5.92           | 1.65         | 61.0  | .63          |                               |                     |           |                      |                          | 320 in <sup>2</sup> |
| SDB-122-CV | Male G1-1/4   | 130                | 366   | >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 |                     |
|            | BSP (ISO 228) | 5.12               | 14.41 | >.98 | 1.98 | 8.82           | 3.31         | 122.0                                       | 1.27         |                               |                     |           |                      |                          | 320 in <sup>2</sup> |

### 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 / .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:
- for SDB-121-CV and SDB-122-CV:

#### Visual contamination indicator

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

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

- for SDB-061-CV (100 cm<sup>3</sup> / 6.1 in<sup>3</sup>): **RD-061**
- for SDB-096-CV (600 cm<sup>3</sup> / 26.6 in<sup>3</sup>): **RD-096**
- for SDB-121-CV and SDB-122-CV (1000 cm<sup>3</sup> / 61.0 in<sup>3</sup>): **RD-121**
- for SDB-122-CV (2000 cm<sup>3</sup> / 122.0 in<sup>3</sup>): **RD-122**

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

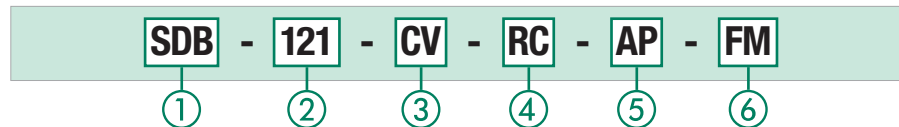
- for SDB-096-CV and SDB-121-CV (300 cm<sup>3</sup> / 18.3 in<sup>3</sup>): **RC-093/096/121**
- for SDB-122-CV (600 cm<sup>3</sup> / 18.3 in<sup>3</sup>): **RC-122**

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-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 / .15 PSI) **CV**

#### 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 **RC**

#### 5 Adaptor Plate

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

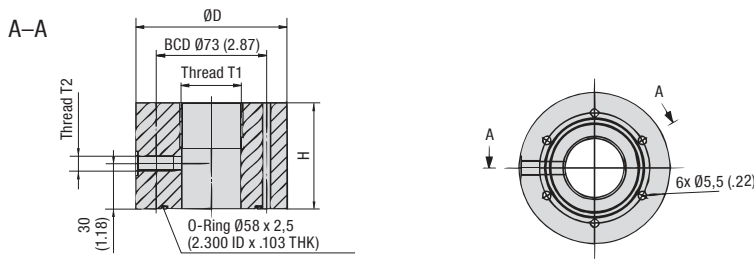
#### 6 Contamination Indicator

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

Please see page 47 for details.

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





### Adaptor Plate Type AP



Desiccant Air Breather SDB with Adaptor Plate AP

#### Order Code and Dimensions

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

#### Characteristics

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

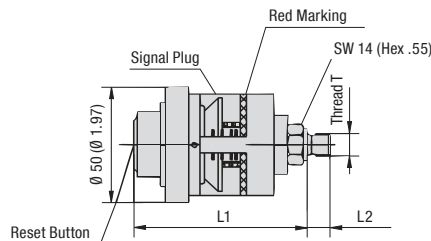
With Adaptor Plates AP, desiccant air breathers can be directly mounted to existing connections with a six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2.

They are also equipped with a female G1/8 BSP thread (ISO 228) to connect with the Visual Contamination Indicator.

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.

### Visual Contamination Indicator Type FM



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



#### Order Code and Dimensions

| Thread T                   | Dimensions (mm/in) |     | Order Code |
|----------------------------|--------------------|-----|------------|
|                            | L1                 | L2  |            |
| Male G1/8 BSP<br>(ISO 228) | 75                 | 10  | FM         |
|                            | 2.54               | .39 |            |

#### Materials

- Housing made of Polycarbonate

#### Technical Data

- 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.

#### Order Code and Dimensions

| Dimensions (mm/in) |          | Order Code      |
|--------------------|----------|-----------------|
| Length             | Diameter |                 |
| 140                | 60       | TBA-075-B-OD140 |
| 5.51               | 2.36     |                 |
| 210                | 60       | TBA-075-B-OD210 |
| 8.27               | 2.36     |                 |

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, SMTB-80 and SPBN

#### Materials

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

### Oil Demister Type TBA-OD

