Fluid Level and Temperature Indicators

Tank Filler Breathers

Giant and Desiccant Air Breathers

Suction Strainers

Diffusors

Catalogue 10
STAUFF Hydraulic Accessories
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Subject to modifications due to the ongoing development and improvement of the products.

With the publication of this product catalogue, previous editions are no longer valid.

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STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

You can find detailed contact information on the last two pages of this product catalogue or at www.stauff.com.
<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>4 - 11</td>
</tr>
<tr>
<td>Fluid Level and Temperature Indicators</td>
<td>12 - 21</td>
</tr>
<tr>
<td>Tank Filler Breathers</td>
<td>22 - 39</td>
</tr>
<tr>
<td>Giant and Desiccant Air Breathers</td>
<td>40 - 47</td>
</tr>
<tr>
<td>Suction Strainers</td>
<td>48 - 51</td>
</tr>
<tr>
<td>Diffusers</td>
<td>52 - 55</td>
</tr>
<tr>
<td>Appendix (Product-Specific Abbreviations / Global Contact Directory)</td>
<td>56 - 63</td>
</tr>
</tbody>
</table>
Introduction

Catalogue 7
STAUFF Test
- Test Couplings
- Test Adaptors
- Test Hoses and Connectors

Catalogue 8
STAUFF Diagtronics
- Pressure Gauges
- Hydraulic Testers
- Oil Analysis Equipment

Catalogue 9
STAUFF Filtration Technology
- Replacement Filter Elements
- Pressure Filters
- Return-Line Filters
- In-Line Filters
- Spin-On Filters
- Offline and Bypass Filters
- Filtration Systems

Catalogue 10
STAUFF Hydraulic Accessories
- Fluid Level and Temperature Indicators
- Tank Filler Breathers
- Giant and Desiccant Air Breathers
- Suction Strainers
- Diffusers
For more than 50 years, the companies of STAUFF Group have been developing, manufacturing and distributing pipework equipment and hydraulic components for mechanical and plant engineering and for service and industrial maintenance.

In addition to mobile and industrial hydraulic machinery, typical applications also include commercial and special purpose vehicles, rail transportation and energy technology. Likewise, STAUFF products are used in marine, oil and gas applications and in the process, food and chemical industries.

The overall range currently includes about 40000 standard products as well as numerous special and system solutions according to customer’s specifications or based on our in-house development.

All STAUFF products undergo relevant testing in accordance with international regulations and are governed by the high standards of the in-house quality management system. Furthermore, many items have received certifications and approvals from various international institutes, organisations and authorities who have independently confirmed the quality and performance of the products.

The overall range currently includes about 40000 standard products as well as numerous special and system solutions according to customer’s specifications or based on our in-house development.

All STAUFF products undergo relevant testing in accordance with international regulations and are governed by the high standards of the in-house quality management system. Furthermore, many items have received certifications and approvals from various international institutes, organisations and authorities who have independently confirmed the quality and performance of the products.

Wholly-owned manufacturing, sales and service facilities in 18 countries and a tight global network of authorised distribution partners ensure high presence and service paired with a maximum of availability.

STAUFF LINE Components

With the seven dedicated STAUFF Line product groups

- STAUFF Clamps
- STAUFF Connect
- STAUFF Flanges
- STAUFF Hose Connectors
- STAUFF Quick Release Couplings
- STAUFF Valves
- STAUFF Test

from own, in-house development and manufacturing, the companies of the STAUFF Group provide a comprehensive range of components for fastening and connecting pipes, tubes and hoses for mobile and industrial hydraulic applications and many other industries.

The portfolio is completed by components for shutting-off, regulating, throttling and measuring fluid media.

In order to perfectly match each other, STAUFF Line products are designed and offered on a high, uniform level of quality. A large proportion of the range made from steel comes as standard with the premium STAUFF Zinc/Nickel surface coating, which is also optionally available for many of the other components.

This coating offers the most reliable surface protection far beyond the previous market standards – even after transport, handling and assembly of the components – and meets all current legal requirements.

If desired, Original Equipment Manufacturers can be supported with value-added services, from technical consultation to pre-assembly, assembly and kitting as well as logistics services:

- Support with the selection of suitable standard components and ordering options; provision of customised solutions according to customer’s specifications or based on our in-house development – from prototyping to large scale production
- Analysis and optimization of existing and design and developments of new systems aimed at increasing the efficiency and performance of machines and equipment and creating value for customers by reducing the total cost
- Pre-assembly, assembly and kitting of individual components to customer-specific system modules
- Individually coordinated procurement solutions (e.g. web shop and electronic data interchange) and supply models (e.g. from warehousing of customised components to Kanban logistics and just-in-time delivery of pre-fabricated system modules to the assembly lines of the customers) aimed at optimising material flows

Safety Management OHSAS – 18001:2007
Aligned with the needs of the market, the product groups STAUFF Test, STAUFF Diagtronics, STAUFF Filtration Technology, and STAUFF Hydraulic Accessories include a comprehensive range of analogue and digital measuring equipment and devices, filtration systems and replacement filter elements as well as accessories for the construction of tanks, reservoirs, power packs and gear boxes in mobile and industrial hydraulics.

The offer is completed by relevant value-added services:

- Support with the selection of suitable components and ordering options; provision of customised solutions according to customer’s specifications or based on our in-house development – from prototyping to large scale production
- Analysis of existing hydraulic circuits aimed at filtration systems, tank components and monitoring devices that perfectly match to the specific requirements, and developing integrated concepts to increase the efficiency and performance of machines and equipment
- Individually coordinated procurement solutions and supply models
Introduction

STAUFF Hydraulic Accessories

The consistently developed and enhanced STAUFF Hydraulic Accessories product range contains of well thought-out and sophisticated components suited to meet or exceed the increasing requirements of designing and building tanks, reservoirs, power packs and gear boxes for industrial and mobile hydraulic applications.

Whether you require visual or visual/electrical fluid level and temperature indicators, tank filler breathers in a variety of designs made of plastic or metal, or desiccant air breathers to protect your reservoir from contamination and moisture, STAUFF Hydraulic Accessories will provide you with the product you need.

The programme is completed by suction strainers and Diffusers that are positioned within the reservoir and connected directly to the suction and return lines.

For challenging applications, STAUFF is able to provide technically modified product versions, which, for example, convince with their outstanding resistance to external influences (such as high or low temperatures, aggressive media or UV exposure) or their compact and light-weight design.

STAUFF guarantees prompt service, even for customised solutions according to customer’s specifications or based on our in-house development.
www.stauff.com/catalogues

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* may require a suitable app
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www.stauff.com/cad

Immediate access to and free download of 3D models and 2D drawings for a growing number of STAUFF products

www.filterinterchange.com

Online database for the quick and easy identification and interchange of almost all common brands and types of replacement filter elements

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Youtube
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## Fluid Level and Temperature Indicators

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level Gauge</td>
<td>14 - 17</td>
</tr>
<tr>
<td>SNA</td>
<td>14</td>
</tr>
<tr>
<td>SNA/SNK (Special Options)</td>
<td>15</td>
</tr>
<tr>
<td>SNK</td>
<td>16</td>
</tr>
<tr>
<td>SNK/XX</td>
<td>17</td>
</tr>
<tr>
<td><strong>Accessories / Options</strong></td>
<td>18 - 21</td>
</tr>
<tr>
<td>Thermo Switch</td>
<td>18</td>
</tr>
<tr>
<td>TS</td>
<td></td>
</tr>
<tr>
<td>Dial Thermometer with Probe</td>
<td>18</td>
</tr>
<tr>
<td>T1 / T2</td>
<td></td>
</tr>
<tr>
<td>Temperature Sensor</td>
<td>19</td>
</tr>
<tr>
<td>TS-SNA / SNK-PT100</td>
<td></td>
</tr>
<tr>
<td>Temperature Sensor with Direct Installation Set</td>
<td>19</td>
</tr>
<tr>
<td>TS-SNA / SNK-PT100-T</td>
<td></td>
</tr>
<tr>
<td>Anti-Drain Valve</td>
<td>20</td>
</tr>
<tr>
<td>SDV-SNA / SNK</td>
<td></td>
</tr>
<tr>
<td>Deutsch Adaptor Cable</td>
<td>20</td>
</tr>
<tr>
<td>DT04-4P</td>
<td></td>
</tr>
<tr>
<td>Level-Temperature Switch</td>
<td>21</td>
</tr>
<tr>
<td>SLTS</td>
<td></td>
</tr>
</tbody>
</table>
Fluid Level and Temperature Indicators

Level Gauge Type SNA

Characteristics

Visual fluid level indication in hydraulic reservoirs with maximum tank pressures not exceeding 2 bar / 29 PSI

Nominal Sizes and Designs

- 7 nominal sizes from 76 mm / 2.99 in to 381 mm / 15.00 in
- Display either undivided (SNA-076 ... 176) or subdivided by strut(s) into 2 (SNA-254) or 3 sections (SNA-305 and SNA-381)

Please see page 15 for alternative nominal sizes and designs.

Materials

- Housing made of Steel St 12, black powder-coated
- Sight tube and plugs made of Polyamide (PA)
- Nominal Sizes and Designs

Order Codes

1. Type
   Level Gauge with visual fluid level indication
   SNA

2. Nominal Size
   SNA-076 (nominal size of 76 mm / 2.99 in) 076
   SNA-127 (nominal size of 127 mm / 5.00 in) 127
   SNA-150 (nominal size of 150 mm / 5.91 in) 150
   SNA-176 (nominal size of 176 mm / 6.93 in) 176
   SNA-254 (nominal size of 254 mm / 10.00 in) 254
   SNA-305 (nominal size of 305 mm / 12.00 in) 305
   SNA-381 (nominal size of 381 mm / 15.00 in) 381

Sealing Material

- NBR (Buna-N®) (standard option)
- FKM (Viton®)

Design of Scale Plate

- With STAUFF logo (standard option)
- Neutral design without any logo
- Custom-designed scale plate (please specify)

Thermometer Option

- Red Capillary Tube thermometer on scale plate
- Blue Capillary Tube thermometer on scale plate
- Uniform coarse thread 1/2 –
- Unified fine thread 1/2 –
- Unified extra-fine thread 1/2–

Thermo Switch / Temperature Sensor / Anti-Drain Valve Option

- Thermo Switch TS-SNA/SNK; Break contact
- Thermo Switch TS-SNA/SNK; Normally closed
- Thermo Switch TS-SNA/SNK; Normally open

Banjo Bolt Size

- Metric ISO thread M12 (standard option)
- Metric ISO thread M10
- Unified fine thread 1/2–
- Unified extra-fine thread 1/2–

Switching Temperature

- Contact switches at +60 °C / +140 °F
- Contact switches at +70 °C / +158 °F
- Contact switches at +80 °C / +176 °F
- Contact switches at +90 °C / +194 °F

Options

- T1C and T2C (option)
- T1CF and T2CF (option)

Please see pages 18 to 20 for details.

Order Codes

1. Type
   Level Gauge with visual fluid level indication
   SNA

2. Nominal Size
   SNA-076 (nominal size of 76 mm / 2.99 in) 076
   SNA-127 (nominal size of 127 mm / 5.00 in) 127
   SNA-150 (nominal size of 150 mm / 5.91 in) 150
   SNA-176 (nominal size of 176 mm / 6.93 in) 176
   SNA-254 (nominal size of 254 mm / 10.00 in) 254
   SNA-305 (nominal size of 305 mm / 12.00 in) 305
   SNA-381 (nominal size of 381 mm / 15.00 in) 381

Sealing Material

- NBR (Buna-N®) (standard option)
- FKM (Viton®)

Design of Scale Plate

- With STAUFF logo (standard option)
- Neutral design without any logo
- Custom-designed scale plate (please specify)

Thermometer Option

- Red Capillary Tube thermometer on scale plate
- Blue Capillary Tube thermometer on scale plate
- Uniform coarse thread 1/2 –
- Unified fine thread 1/2 –
- Unified extra-fine thread 1/2–

Thermo Switch / Temperature Sensor / Anti-Drain Valve Option

- Thermo Switch TS-SNA/SNK; Break contact
- Thermo Switch TS-SNA/SNK; Normally closed
- Thermo Switch TS-SNA/SNK; Normally open

Banjo Bolt Size

- Metric ISO thread M12 (standard option)
- Metric ISO thread M10
- Unified fine thread 1/2–
- Unified extra-fine thread 1/2–

Switching Temperature

- Contact switches at +60 °C / +140 °F
- Contact switches at +70 °C / +158 °F
- Contact switches at +80 °C / +176 °F
- Contact switches at +90 °C / +194 °F

Options

- T1C and T2C (option)
- T1CF and T2CF (option)

Please see pages 18 to 20 for details.

Order Codes

1. Type
   Level Gauge with visual fluid level indication
   SNA

2. Nominal Size
   SNA-076 (nominal size of 76 mm / 2.99 in) 076
   SNA-127 (nominal size of 127 mm / 5.00 in) 127
   SNA-150 (nominal size of 150 mm / 5.91 in) 150
   SNA-176 (nominal size of 176 mm / 6.93 in) 176
   SNA-254 (nominal size of 254 mm / 10.00 in) 254
   SNA-305 (nominal size of 305 mm / 12.00 in) 305
   SNA-381 (nominal size of 381 mm / 15.00 in) 381

Sealing Material

- NBR (Buna-N®) (standard option)
- FKM (Viton®)

Design of Scale Plate

- With STAUFF logo (standard option)
- Neutral design without any logo
- Custom-designed scale plate (please specify)

Thermometer Option

- Red Capillary Tube thermometer on scale plate
- Blue Capillary Tube thermometer on scale plate
- Uniform coarse thread 1/2 –
- Unified fine thread 1/2 –
- Unified extra-fine thread 1/2–

Thermo Switch / Temperature Sensor / Anti-Drain Valve Option

- Thermo Switch TS-SNA/SNK; Break contact
- Thermo Switch TS-SNA/SNK; Normally closed
- Thermo Switch TS-SNA/SNK; Normally open

Banjo Bolt Size

- Metric ISO thread M12 (standard option)
- Metric ISO thread M10
- Unified fine thread 1/2–
- Unified extra-fine thread 1/2–

Switching Temperature

- Contact switches at +60 °C / +140 °F
- Contact switches at +70 °C / +158 °F
- Contact switches at +80 °C / +176 °F
- Contact switches at +90 °C / +194 °F

Options

- T1C and T2C (option)
- T1CF and T2CF (option)

Please see pages 18 to 20 for details.

Order Codes

1. Type
   Level Gauge with visual fluid level indication
   SNA

2. Nominal Size
   SNA-076 (nominal size of 76 mm / 2.99 in) 076
   SNA-127 (nominal size of 127 mm / 5.00 in) 127
   SNA-150 (nominal size of 150 mm / 5.91 in) 150
   SNA-176 (nominal size of 176 mm / 6.93 in) 176
   SNA-254 (nominal size of 254 mm / 10.00 in) 254
   SNA-305 (nominal size of 305 mm / 12.00 in) 305
   SNA-381 (nominal size of 381 mm / 15.00 in) 381

Sealing Material

- NBR (Buna-N®) (standard option)
- FKM (Viton®)

Design of Scale Plate

- With STAUFF logo (standard option)
- Neutral design without any logo
- Custom-designed scale plate (please specify)

Thermometer Option

- Red Capillary Tube thermometer on scale plate
- Blue Capillary Tube thermometer on scale plate
- Uniform coarse thread 1/2 –
- Unified fine thread 1/2 –
- Unified extra-fine thread 1/2–

Thermo Switch / Temperature Sensor / Anti-Drain Valve Option

- Thermo Switch TS-SNA/SNK; Break contact
- Thermo Switch TS-SNA/SNK; Normally closed
- Thermo Switch TS-SNA/SNK; Normally open

Banjo Bolt Size

- Metric ISO thread M12 (standard option)
- Metric ISO thread M10
- Unified fine thread 1/2–
- Unified extra-fine thread 1/2–

Switching Temperature

- Contact switches at +60 °C / +140 °F
- Contact switches at +70 °C / +158 °F
- Contact switches at +80 °C / +176 °F
- Contact switches at +90 °C / +194 °F

Options

- T1C and T2C (option)
- T1CF and T2CF (option)

Please see pages 18 to 20 for details.
Characteristics

Visual fluid level indication in hydraulic reservoirs with maximum tank pressures not exceeding 2 bar / 29 PSI; ideal for custom applications in terms of reservoir capacities and dimensions

Nominal Sizes
- Special sizes beyond the normal of 305 mm / 12 in up to a maximum nominal size of 950 mm / 37.4 in – even for small and medium quantities
- High-precision manufacturing within 1 mm tolerance to customer requirements

Design
- Robust design thanks to one or more struts that subdivide the display into 2 or more sections
- Positioning of the strut(s) based on engineering considerations and/or according to particular customer requirements
- Precise visual indication of the fluid level by use of scale plates (only available for nominal sizes smaller than 670 mm / 26.4 in) or by use of a coloured Floating Ball (recommended option for nominal sizes larger than 670 mm / 26.4 in)
- Plastic dampening clips to reduce vibration of the sight tube are used for nominal sizes larger than 450 mm / 17.7 in

Materials
Depending on the specific application, several different materials are available for the individual components of the level gauge (sight glass, housing, sealings, bolts); please see Inquiry Checklist for details.

STAUFF is always at your service if you need support in choosing the right materials or material combination for improved UV or chemical resistance or for low-temperature applications down to -50°C / -58 °F and use with special media (such as bio-degradable fluids, diesel oils, gasolines).

Inquiry Checklist

In case that you require a special property or custom-designed level gauge, please use this checklist to provide us with details. If necessary, please also include further details, like the type of fluid in use, its temperature and viscosity.

Nominal Size

<table>
<thead>
<tr>
<th>Bolt centre distance (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium</td>
</tr>
<tr>
<td>Steel</td>
</tr>
<tr>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

Housing Material

<table>
<thead>
<tr>
<th>Housing Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular housing design with positioning of strut(s) based on engineering considerations</td>
</tr>
</tbody>
</table>

Please provide additional details / drawing for custom housing designs.

Banjo Bolt Size

<table>
<thead>
<tr>
<th>M12</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2–13 UNC</td>
</tr>
<tr>
<td>1/2–20 UNF</td>
</tr>
<tr>
<td>1/2–28 UNEF</td>
</tr>
</tbody>
</table>

Banjo Bolt Material

<table>
<thead>
<tr>
<th>Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

Sealing Material

<table>
<thead>
<tr>
<th>NBR (Buna-N®)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKM (Viton®)</td>
</tr>
<tr>
<td>EPDM</td>
</tr>
</tbody>
</table>

Alternative sealing materials to be defined separately.

Level Indication

<table>
<thead>
<tr>
<th>Scale plate (only for nominal sizes smaller than 382 mm / 15.03 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale plate made of PVC</td>
</tr>
<tr>
<td>Scale plate made of Aluminium</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Without thermometer on scale plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capillary tube thermometer with dual Celsius / Fahrenheit scale up to +80 °C / +180 °F</td>
</tr>
</tbody>
</table>

Floating Ball (recommended option for nominal sizes larger than 381 mm / 15.0 in)

Other types of level indication (magnetic floats, etc.) to be defined separately.

Options

<table>
<thead>
<tr>
<th>Dial thermometer with probe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Celsius scale up to +100 ° C</td>
</tr>
<tr>
<td>Dual scale up to +100 ° C / +200 ° F</td>
</tr>
</tbody>
</table>

| Length of probe: 200 mm / 7.87 in                                |
| Length of probe: 300 mm / 11.81 in                              |

<table>
<thead>
<tr>
<th>Thermoswitch TS-SNA/SNK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact switches at +60 ° C / +140 ° F</td>
</tr>
<tr>
<td>Contact switches at +70 ° C / +158 ° F</td>
</tr>
<tr>
<td>Contact switches at +80 ° C / +176 ° F</td>
</tr>
<tr>
<td>Contact switches at +90 ° C / +194 ° F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Temperature Sensor TS-SNA/SNK-PT100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deutsch Adaptor Cable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Anti-Drain Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set A</td>
</tr>
<tr>
<td>Set B</td>
</tr>
</tbody>
</table>

Also available: Level Gauges • Type SNK in Special Lengths

Visual / electrical fluid level indication in hydraulic reservoirs with level gauges up to a maximum nominal size of 950mm / 37.4 in.

Please do not hesitate to contact STAUFF for further details.
**Level Gauge Type SNK**

**Characteristics**

**Visual / electrical fluid level indication in hydraulic reservoirs with maximum tank pressures not exceeding 2 bar / 29 PSI**
- 6 nominal sizes from 127 mm / 5.00 in to 381 mm / 15.00 in
- Display either undivided (SNK-127 ... 176) or subdivided by strut(s) into 2 (SNK-254) or 3 sections (SNK-305 and SNK-381)

**Media Compatibility**
- Suitable for use with mineral and petroleum based hydraulic fluids (HL and HLP)

**Materials**
- Housing made of Aluminium, black powder-coated
- Sight tube and plugs made of Polyamide (PA)
- Float made of Polyamide (PA)
- Sealings made of FKM (Viton®)

For the individual components of the level gauge (sight glass, housing, sealings, bolts), alternative materials for improved UV or chemical resistance, low-temperature applications down to -50°C / -58 °F and use with special media (such as bio-degradable fluids, diesel oils, gasolines) are available on request.

**Electrical Specifications**
- Magnetic float activates switch when fluid level drops below contact level within 60 mm / 2.36 in of lower banjo bolt
- Available as a break contact (normally closed) or make contact (normally open)
- Either equipped with industrial standard connector (types C / O) or five-pin circular connector M12 (types CD / OD)
- Direction of the electrical contact box (right / left) can be chosen when assembling the electrical contacts (types C / D) or is right by default (types CD / OD)
- Contact ratings: max. 10 W (types C / CD) or 5 W (types O / OD)
- Switching voltage: max. 50 V AC/DC
- Switching: max. 50VAC/DC
- Switching current: max. 0.25 A

**Technical Data**
- IP 65 protection rating: Dust tight and protected against water jets (IP 67 on request)
- Operating temperature range: -30°C / ~86°F to +80°C / +176 °F
- Minimum rated distance to other magnetic components and cables: 10 mm / .39 in

**Accessories / Options**
- Dial thermometers with probe and a Celsius or a dual Celsius / Fahrenheit scale with a temperature display range of up to +100°C / +200 °F
- Thermo Switches
- Temperature Sensors
- Deutsch Adaptor Cable
- Please see pages 18 / 19 / 20 for details.
- Dimensional drawings: All dimensions in mm (in).

**Dimensions**

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Dimensions</th>
<th>A</th>
<th>B1</th>
<th>B2</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F (with T1)</th>
<th>F (with T2)</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNK-127</td>
<td>56</td>
<td>34.5</td>
<td>-50</td>
<td>8</td>
<td>35.1</td>
<td>51.5</td>
<td>157.5</td>
<td>205</td>
<td>127</td>
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<tr>
<td>SNK-150</td>
<td>56</td>
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<td>-50</td>
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<td>51.5</td>
<td>157.5</td>
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<tr>
<td>SNK-176</td>
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<td>157.5</td>
<td>205</td>
<td>254</td>
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<tr>
<td>SNK-254</td>
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<td>-50</td>
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<td>80</td>
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<tr>
<td>SNK-305</td>
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<td>-50</td>
<td>8</td>
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<td>51.5</td>
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<tr>
<td>SNK-381</td>
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<td>-50</td>
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<td>205</td>
<td>381</td>
<td>80</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Order Codes**

1. Type
   - Level Gauge with visual / electrical fluid level indication
   - SNK

2. Nominal Size
   - SNK-127 (nominal size of 127 mm / 5.00 in)
   - SNK-150 (nominal size of 150 mm / 5.91 in)
   - SNK-176 (nominal size of 176 mm / 6.93 in)
   - SNK-254 (nominal size of 254 mm / 10.00 in)
   - SNK-305 (nominal size of 305 mm / 12.00 in)
   - SNK-381 (nominal size of 381 mm / 15.00 in)

3. Sealing Material
   - FKM (Viton®)

4. Electrical Function
   - Break contact, opens at contact level (normally closed; Equipped with standard connector)
   - Make contact, opens at contact level (normally closed; Equipped with connector M12)
   - Make contact, closes at contact level (normally open; Equipped with standard connector)
   - Make contact, closes at contact level (normally open; Equipped with connector M12)

5. Thermometer Option
   - Supplied without thermometer (standard option)
   - Dial thermometer with probe (200 mm / 7.87 in)
   - Dial thermometer with probe (300 mm / 11.81 in)
   - Dial thermometer with probe (300 mm / 11.81 in) and a dual scale up to 100°C / 200°F

6. Banjo Bolt Size
   - Metric ISO thread M12 (standard option)
   - Metric ISO thread M10
   - Unified coarse thread 1/2–13 UNC
   - Unified fine thread 1/2–20 UNF
   - Unified extra-fine thread 1/2–28 UNEF

7. Thermo Switch / Temperature Sensor / Anti-Drain Valve Option
   - Supplied without Thermo Switch / Temperature Sensor / Anti-Drain Valve
   - Thermo Switch TS-SNA/SNK; Break contact (normally closed; Equipped with standard connector)
   - Thermo Switch TS-SNA/SNK; Make contact (normally open; Equipped with standard connector)
   - Thermo Switch TS-SNA/SNK; Make contact (normally open; Equipped with M12 Temperature Sensor TS-SNA/SNK-PT100; Equipped with connector M12)
   - Anti-Drain Valve Set A
   - Anti-Drain Valve Set B

8. Switching Temperature
   - Contact switches at +60 °C / +140 °F
   - Contact switches at +70 °C / +158 °F
   - Contact switches at +80 °C / +176 °F
   - Contact switches at +90 °C / +194 °F
   - Only to be indicated when using a Thermo Switch.

**Connection Details and Electrical Functions**

- Types C and O: Industrial standard connector (contact gap: 11 mm / .43 in), similar to DIN EN 175301-803-B / ISO 6952
- Types CD and OD: Five-pin circular connector M12, A-coded, according to IEC 60176-2-101

**Maximum admissible tolerance for the bolt center spacing (dimension L2) according to DIN ISO 2768-f: ±0.20 mm / .008 in for all nominal sizes.**

**Connection 1 not available; Connection 2 not engaged.**

**Table shows dimension L1 for the version with industrial standard connector (types C and O) only.**

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**Catalogue 10 ▪ Edition 08/2019**

**Fluid Level and Temperature Indicators**

**Dial Thermometer with Probe T1/T2 (optional)**

**Clearance Hole:** Ø10,5 (Ø.41) for M10 / Ø13 (Ø.51) for M12 / Ø13,5 (Ø.53) by UNC, UNF, UNEF.
Fluid Level and Temperature Indicators

Type DD: Five-pin circular connector M12, A-coded, according to IEC 61076-2-101

Connection Details and Electrical Functions

**Dimensions**

Maximum admissible tolerance for the bolt center spacing (dimension L2) according to DIN/ISO 2768-e: ±0,20 mm / .008 in for all nominal sizes.

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Dimensions</th>
<th>A</th>
<th>B1</th>
<th>B2</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F (with T1)</th>
<th>F (with T2)</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNKK-127</td>
<td>56</td>
<td>34,5</td>
<td>50</td>
<td>8</td>
<td>35,1</td>
<td>51,5</td>
<td>157,5</td>
<td>257,5</td>
<td>165</td>
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<td>SNKK-150</td>
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<td>SNKK-176</td>
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<td>SNKK-254</td>
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<td>360</td>
<td>305</td>
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<td>SNKK-381</td>
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<td>257,5</td>
<td>381</td>
<td>327</td>
<td>–60</td>
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</tr>
</tbody>
</table>

**Order Codes**

- **SNKK**
  - 127
  - 254
  - 305
  - 381

**Type**

- **Level Gauge with visual / electrical fluid level indication (compact design)**
  - SNKK

**Nominal Size**

- **SNKK-127** (nominal size of 127 mm / 5.00 in)
  - 127
- **SNKK-150** (nominal size of 150 mm / 5.91 in)
  - 150
- **SNKK-176** (nominal size of 176 mm / 6.93 in)
  - 176
- **SNKK-254** (nominal size of 254 mm / 10.00 in)
  - 254
- **SNKK-305** (nominal size of 305 mm / 12.00 in)
  - 305
- **SNKK-381** (nominal size of 381 mm / 15.00 in)
  - 381
  - Contact STAUFF for alternative nominal sizes and designs.

**Sealing Material**

- **FKM (Viton®)**
  - V

**Electrical Function**

- **SPDT** (Single Pole Double Throw) contacts, 1 contact opens and 1 contact closes at contact level; Equipped with connector M12
  - DD

**Thermometer Option**

- Without thermometer (standard option)
  - 0
- Dial thermometer with probe (200 mm / 7.87 in) and a Celsius scale up to 100 °C
  - T1C
- Dial thermometer with probe (300 mm / 11.81 in) and a Celsius scale up to 100 °C
  - T2C
- Dial thermometer with probe (200 mm / 7.87 in) and a dual scale up to 100 °C / 200 °F
  - T1CF
- Dial thermometer with probe (300 mm / 11.81 in) and a dual scale up to 100 °C / 200 °F
  - T2CF

**Thermo Switch / Temperature Sensor / Anti-Drain Valve Option**

- Supplied without Thermo Switch / Temperature Sensor / Anti-Drain Valve

- Break Contact, opens at contact level (normally closed); Equipped with standard connector M12
  - Make Contact, closes at contact level (normally open); Equipped with standard connector M12
  - Temperature Sensor TS-SNA/SNK-PT100; Equipped with connector M12
  - PT100
  - Anti-Drain Valve Set A
  - Anti-Drain Valve Set B

**Switching Temperature**

- Contact switches at +90 °C / +140 °F
  - 60
- Contact switches at +70 °C / +158 °F
  - 70
- Contact switches at +50 °C / +122 °F
  - 80
- Contact switches at +30 °C / +86 °F
  - 90

**Maximum admissible tolerance for the bolt center spacing (dimension L2)**

- ±0,20 mm / .008 in for all nominal sizes.

**Characteristics**

**Visual / electrical fluid level indication in hydraulic reservoirs with maximum tank pressures not exceeding 2 bar / 29 PSI; ideal for applications in which space is limited**

**Nominal Sizes and Designs**

- 6 nominal sizes from 127 mm / 5.00 in to 381 mm / 15.00 in
- Compact design allows space-saving installation: Always 40 mm / 1.57 in shorter than Level Gauges SNKK of the comparable nominal size
- Display either undivided (SNKK-127 ... 176) or subdivided by struts (into 2 (SNKK-254) or 3 sections (SNKK-305 and SNKK-381)

**Media Compatibility**

- Suitable for use with Mineral and Petroleum based hydraulic fluids (HL and HLP)

**Materials**

- Housing made of Aluminium, black powder-coated
- Sight tube and plugs made of Polyamide (PA)
- Float made of Polypropylene (PP)
- Sealings made of FKM (Viton®)

**Technical Data**

- IP 67 protection rating: Dust tight and protected against powerful water jets; even immersion (up to 1 m / 3.28 ft) in water is possible under defined conditions of pressure and time (IP 69K on request)
- Operating temperature range: -30°C...+80°C / -22°F...+176°F
- Recommended tightening torque: 8 N·m / 5.9 ft·lb
- Minimum lateral distance to other magnetic elements: 90 mm / 3.54 in
- Recommended use in conjunction with Level Gauges SNKK
- Always 40 mm / 1.57 in shorter than Level Gauges SNKK
- Viewing range: +100 °C / +200 °F
- Fahrenheit scale with a temperature display range of up to +100 °C / +200 °F

**Accessories / Options**

- Dial thermometers with probe and a Celsius or a dual Celsius / Fahrenheit scale with a temperature display range of up to +100 °C / +200 °F
- Thermo Switches
- Temperature Sensors
- Deutsch Adaptor Cable

For the individual components of the level gauge (sight glass, housing, sealings, bolts), alternative materials for improved UV or chemical resistance, low-temperature applications down to -50°C / -58 °F and use with special media (such as bio-degradable fluids, diesel oils, gasolines) are available on request.

**For the individual components of the level gauge (sight glass, housing, sealings, bolts), alternative materials for improved UV or chemical resistance, low-temperature applications down to -50°C / -58 °F and use with special media (such as bio-degradable fluids, diesel oils, gasolines) are available on request.**

- Recommended use in conjunction with Level Gauges SNKK
- Always 40 mm / 1.57 in shorter than Level Gauges SNKK
- Viewing range: +100 °C / +200 °F
- Fahrenheit scale with a temperature display range of up to +100 °C / +200 °F

**Accessories / Options**

- Dial thermometers with probe and a Celsius or a dual Celsius / Fahrenheit scale with a temperature display range of up to +100 °C / +200 °F
- Thermo Switches
- Temperature Sensors
- Deutsch Adaptor Cable

Please see pages 18 / 19 / 20 for details.
Thermo Switch
Type TS

Characteristics
Fluid temperature measurement in conjunction with STAUFF Level Gauges SNA, SNK and SNKK

Installation
- Replaces the lower banjo bolt of the Level Gauge
- Available for bolt size M12 only
- Clearance hole: Ø13 mm / Ø.51 in

Materials
- Metal parts made of Stainless Steel (1.4305)
- Plastic parts made of glass-fibre reinforced Polyamide (PA)

Electrical Specifications (General)
- Thermo switch is activated when the fluid temperature reaches the respective switching temperature
- Available with switching temperatures of +60 °C / +140 °F, +70 °C / +158 °F, +80 °C / +176 °F or +90 °C / +194 °F (with a switching tolerance of ±5 °C / ±9 °F and a hysteresis of 35 °C / 63 °F)
- Available as a break contact (normally closed) or make contact (normally open)
- Either equipped with industrial standard connector (types C / O) or five-pin circular connector M12 (types CD / OD)
- Thermo switch can be rotated by 360° to its final direction

Dimensions

<table>
<thead>
<tr>
<th>Order Codes</th>
<th>Dimensions (mm/in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS-SNA/SNK</td>
<td></td>
</tr>
<tr>
<td>O</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Electrical Function</th>
<th>Scaling Options</th>
<th>Electrical Specifications (Alternating Current)</th>
<th>Electrical Specifications (Direct Current)</th>
<th>Accessories / Options</th>
<th>Technical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS-SNA/SNK</td>
<td>Thermoswitch TS for use with Level Gauges SNA, SNK and SNKK</td>
<td>Celsius scale of 0°C ... +100 °C</td>
<td>Maximum voltage: 250 V, 2.5 (1.6) A, 50 Hz</td>
<td>Maximum temperature: 42 V</td>
<td>Deutsch Adaptor Cable</td>
<td>IP 65 protection rating: Dust tight and protected against water jets</td>
</tr>
<tr>
<td>O</td>
<td>Break contact, opens at switching temperature (normally closed); Equipped with standard connector</td>
<td>Dual Celsius / Fahrenheit scale of up to +100 °C / +200 °F</td>
<td>Maximum current at 2500 operations: 4.0 A at cos φ = 4.45 / 250 V, 135 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0D</td>
<td>Break contact, opens at switching temperature (normally closed); Equipped with connector M12</td>
<td></td>
<td>Maximum current at 10000 operations: 2.5 A at cos φ = 1.00 / 250 V, 150 °C</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>C</td>
<td>Make contact, closes at switching temperature (normally open); Equipped with standard connector</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CD</td>
<td>Make contact, closes at switching temperature (normally open); Equipped with connector M12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Switching Temperature
- Contact switches at +60 °C / +140 °F
- Contact switches at +70 °C / +158 °F
- Contact switches at +80 °C / +176 °F
- Contact switches at +90 °C / +194 °F

Order Codes

1. Type
2. Electrical Function
3. Switching Temperature

Connection Details and Electrical Functions

Types C and O: Industrial standard connector (contact gap: 9.4 mm / .37 in), similar to DIN EN 175301-803-C / ISO 6952
Types CD and OD: Five-pin circular connector M12, A-coded, according to IEC 61076-2-101

Dial Thermometer with Probe
Types T1/T2

Characteristics
Visual fluid temperature measurement in conjunction with STAUFF Level Gauges SNA, SNK and SNKK

Nominal Sizes and Designs
- Probe lengths of 200 mm / 7.87 in or 300 mm / 11.81 in
- Scale diameter of 33 mm / 1.30 in

Please contact STAUFF for special versions.

Scale Options
- Celsius scale of 0°C ... +100 °C
- Dual Celsius / Fahrenheit scale of up to +100 °C / +200 °F

Materials
- Probe made of Stainless Steel V4A (1.4571)

Technical Data
- IP 65 protection rating: Dust tight and protected against water jets

Installation
- Requires a special banjo bolt (with internal M8 port for the dial thermometer with probe) to replace the lower standard banjo bolt of the Level Gauge
- Use suitable wrench SW 13 (Hex. .51) to fasten; turning on the body itself may damage the product

Please note that Dial Thermometers with Probe can only be ordered in conjunction with Level Gauges SNA, SNK and SNKK. Please see page 14 to 17 for details.

Dimensional drawings: All dimensions in mm (in).
**Temperature Sensor**

**Type TS-SNA/SNK-PT100**

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions (mm/Unit)</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>In conjunction with Level Gauge SNA</td>
<td>43.5</td>
<td>45.5</td>
</tr>
<tr>
<td>In conjunction with Level Gauge SNK</td>
<td>51</td>
<td>38</td>
</tr>
<tr>
<td>In conjunction with Level Gauge SNKK</td>
<td>51</td>
<td>38</td>
</tr>
</tbody>
</table>

**Order Codes**

- **TS-SNA/SNK-PT100**
  - **Type** Temperature Sensor PT100
  - **Accessories / Options** Deutsch Adaptor Cable

**Technical Data**

- Operating temperature range (for the connector area):
  - -25 °C ... +80 °C / -13 °F ... +176 °F
- IP 68 protection rating: Dust tight and protected against powerful water jets; even immersion (beyond 1 m / 3.28 ft) in water is possible under defined conditions of pressure and time

**Materials**

- Metal parts (including all fluid-affected parts) made of Stainless Steel V2A (1.4305)
- M12 screw nut made of Steel, zinc-plated
- Front ring made of Stainless Steel V2A (1.4305)
- O-ring and gasket made of NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Electrical Specifications**

- Measuring temperature range:
  - -40 °C ... +150 °C / -40 °F ... +302 °F
- Platinum measuring element PT100 according to DIN EN 60751, class A
- Accuracy: ±(0,15 K + 0,002 x |t|)
- Max. contact current: 2.0 mA
- Equipped with four-pin circular connector M12 with gold-plated contacts
- Power supply 20...32V DC

**Accessories / Options**

- Deutsch Adaptor Cable

**Order Codes**

- **TS-SNA/SNK-PT100-T**
  - **Direct Adaptor** Direct installation set including M12 screw nut, gasket, front ring and O-ring
  - **Sealing Material** NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Characteristics**

- Fluid temperature measurement in conjunction with STAUFF Level Gauges SNA, SNK and SNKK; Analysis of signals with required equipment, simply connect to your on board control unit or PLC.
- Fluid temperature measurement without STAUFF Level Gauges SNA, SNK and SNKK; Analysis of signals with required equipment, simply connect to your on board control unit or PLC.

**Installation**

- Direct installation to the outer wall of the hydraulic reservoir or gearbox
- Compact design and easy installation
- Clearance hole: Ø13 mm / Ø.51 in

**Materials**

- Fluid-affected parts made of Stainless Steel V2A (1.4305)
- M12 screw nut made of Steel, zinc-plated
- Front ring made of Stainless Steel V2A (1.4305)
- O-ring and gasket made of NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Accessories / Options**

- Deutsch Adaptor Cable

**Order Codes**

- **TS-SNA/SNK-PT100-T**
  - **Direct Adaptor** Direct installation set including M12 screw nut, gasket, front ring and O-ring
  - **Sealing Material** NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Characteristics**

- Fluid-affected parts made of Stainless Steel V2A (1.4305)
- M12 screw nut made of Steel, zinc-plated
- Front ring made of Stainless Steel V2A (1.4305)
- O-ring and gasket made of NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Accessories / Options**

- Deutsch Adaptor Cable

**Order Codes**

- **TS-SNA/SNK-PT100**
  - **Type** Temperature Sensor PT100
  - **Sealing Material** NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Characteristics**

- Fluid-affected parts made of Stainless Steel V2A (1.4305)
- M12 screw nut made of Steel, zinc-plated
- Front ring made of Stainless Steel V2A (1.4305)
- O-ring and gasket made of NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Accessories / Options**

- Deutsch Adaptor Cable

**Order Codes**

- **TS-SNA/SNK-PT100-T**
  - **Direct Adaptor** Direct installation set including M12 screw nut, gasket, front ring and O-ring
  - **Sealing Material** NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Characteristics**

- Fluid-affected parts made of Stainless Steel V2A (1.4305)
- M12 screw nut made of Steel, zinc-plated
- Front ring made of Stainless Steel V2A (1.4305)
- O-ring and gasket made of NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Accessories / Options**

- Deutsch Adaptor Cable

**Order Codes**

- **TS-SNA/SNK-PT100**
  - **Type** Temperature Sensor PT100
  - **Sealing Material** NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Characteristics**

- Fluid-affected parts made of Stainless Steel V2A (1.4305)
- M12 screw nut made of Steel, zinc-plated
- Front ring made of Stainless Steel V2A (1.4305)
- O-ring and gasket made of NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Accessories / Options**

- Deutsch Adaptor Cable

**Order Codes**

- **TS-SNA/SNK-PT100-T**
  - **Direct Adaptor** Direct installation set including M12 screw nut, gasket, front ring and O-ring
  - **Sealing Material** NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Characteristics**

- Fluid-affected parts made of Stainless Steel V2A (1.4305)
- M12 screw nut made of Steel, zinc-plated
- Front ring made of Stainless Steel V2A (1.4305)
- O-ring and gasket made of NBR (Buna-N®) (standard option), FKM (Viton®) or EPDM

**Accessories / Options**

- Deutsch Adaptor Cable
Anti-Drain Valve
Type SDV-SNA/SNK

Characteristics

Anti-drain valve to be used in conjunction with banjo bolts of level gauges, allowing these to be removed and replaced quickly and easily without spillage of fluid from the hydraulic reservoir.

Features

- Used in conjunction with either the lower or both the lower and the upper banjo bolts of the Level Gauge
- Distance adaptor for the upper banjo bolt available when the check valve is used with the lower banjo bolt only
- Available for bolt size M12 only

Materials

- Housing made of Stainless Steel V2A (1.4301)
- Hexagon head nuts made of Steel, zinc/nickel-plated (Fe/Zn Ni 6)
- Sealings made of NBR (Buna-N®)

Contact STAUFF for alternative materials.

Order Codes

<table>
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<tr>
<th>SDV-SNA/SNK</th>
<th>M12</th>
<th>B</th>
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</thead>
</table>

1. Type: Anti-Drain Valve
2. Banjo Bolt Size: Metric ISO thread M12
3. Sealing Material: NBR (Buna-N®)
4. Housing Material: Stainless Steel V2A (1.4301)
5. Set Type: Set A consisting of 1 anti-drain valve to be used with the lower banjo bolt and 1 distance adaptor to be used with the upper banjo bolt

Deutsch Adaptor Cable
Type DT04-4P

Characteristics

Deutsch adaptor to use for adaption from M12 to Deutsch Plug DT04-4P.

Installation

- Adapts to cable box M12 of SNK
- Adapts to M12 connector of SNKK and TS-SNA/SNK …
- Adapts to M12 connector of TS-SNA/SNK-PT100
- Adapts to any electrical M12 connector in other Stauff series

Technical Data

- IP 68 protection rating: Dust tight and protected against powerful water jets
- Length: 100mm (3.93 in)
- Operating temperature range: -30°C ... +80°C / -22°F ... +176°F

Order Codes

<table>
<thead>
<tr>
<th>EACC-CAB-M12A/5-DT04-4P-0.1</th>
</tr>
</thead>
</table>

1. Type: Deutsch Adaptor Cable

Dimensional drawings: All dimensions in mm (in).
The STAUFF Level-Temperature Switches (SLTS Series) are unique in their design and modularity. One of the greatest advantages is the ability of the end-user to adjust the switching level. The internal support wire carrying the level and temperature switches makes it a simple and quick job to change the level switch position.

Level contact positions (L, H) are set as given in the order code. They can be adjusted individually later on.

Please consider a minimum distance of 40 mm / 1.57 in between the switching points.

Features
- Suitable for Mineral Oil and HFC fluids, other fluids on request
- Either 1 or 2 level contacts available
- 1 integrated temperature switch (optional)
- Standard electrical function:
  - Level contacts: Normally closed, opens with falling level
  - Temperature contacts: Normally closed, opens with rising temperature

STAUFF Level-Temperature Switches SLTS are available with other electrical functions on request.

Options
- 1 NPT and others available on request
- Max. 115 Volt switching (for thread N16 only)
- Deutsch Adaptor Cable
  - Please see page 20 for details.

Materials
- Stem: Brass
- Float/Sealing: NBR (Buna-N®)
- Max. operating temp.: +80 °C / +176 °F

Technical Data and Output
- Max. current level contact: 0.5 A
- Max. current temp. contact: 2.0 A
- Contact load level contact: 10 VA
- Max. operating voltage: (See ordering code)
  - Specific gravity of fluid: ≥0.8 kg/dm³
  - Hysteresis: +18°C / +64.4°F

Protection Rating
- IP 65 protection rating: Dust tight and protected against water jets

Order Codes

<table>
<thead>
<tr>
<th>SLTS - 12 - O - H41 - L251 - B12 - G048 - M12</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series and Type</td>
<td>Level-Temperature Switch</td>
<td>SLTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stem Length</td>
<td>L1: 305 mm / 12 in</td>
<td>L2: 251 mm / 9.88 in</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switching Temperature</td>
<td>Without level switch</td>
<td>+60 °C / +140 °F</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td>60</td>
<td>060</td>
</tr>
<tr>
<td></td>
<td>+70 °C / +158 °F</td>
<td>070</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H (Upper Level Contact)</td>
<td>Without upper level contact</td>
<td>41 mm / 1.61 in</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td>41</td>
<td>041</td>
</tr>
</tbody>
</table>

Contact Life Time
Due to their design Reed contacts have a very high life expectancy. However, it is worthwhile to note the following information.

Contact Protection
To reduce the high reverse voltage produced when a reed switch opens, the following contact protection can be applied:
- DC voltage: a diode parallel to the load, see figure A
- AC voltage: a RC-network parallel to the load, see figure B and table below
### Plastic Filler Breather

<table>
<thead>
<tr>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPB-1 / 2 / 3 (Threaded Version)</td>
<td>24</td>
</tr>
<tr>
<td>SPB-4 / 5 (Flange Version)</td>
<td>25</td>
</tr>
</tbody>
</table>

#### Accessories / Options

- Dipsticks / Baskets / Pressurisation

#### Pressure Drop Flow Curves

<table>
<thead>
<tr>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPBN (Compact Design; Threaded Version)</td>
<td>28</td>
</tr>
<tr>
<td>SPBN (Compact Design; Bayonet Version)</td>
<td>28</td>
</tr>
</tbody>
</table>

#### Accessories / Options / Pressure Drop Flow Curves

- Dipsticks / Baskets / Pressurisation

### Plastic Filler Breather Mini

<table>
<thead>
<tr>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPBM (Threaded Version)</td>
<td>30</td>
</tr>
<tr>
<td>SES (Threaded Version)</td>
<td>31</td>
</tr>
<tr>
<td>SES (Welded Version)</td>
<td>31</td>
</tr>
</tbody>
</table>

### Metal Filler Breather

<table>
<thead>
<tr>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMBT-47 (Threaded Version)</td>
<td>32</td>
</tr>
<tr>
<td>SMBB-47 (Bayonet Version)</td>
<td>33</td>
</tr>
<tr>
<td>SMBT-80 (Threaded Version)</td>
<td>34</td>
</tr>
<tr>
<td>SMBB-80 (Bayonet Version)</td>
<td>35</td>
</tr>
<tr>
<td>SMB-80 (Push-On Version)</td>
<td>36</td>
</tr>
</tbody>
</table>

#### Lockable Metal Filler Breather

- SMBL (Clamping, Threaded and Push-On Version)

#### Accessories / Options

<table>
<thead>
<tr>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Side Mount Bracket</td>
<td>38</td>
</tr>
<tr>
<td>ASMB-1 (Polyamide Version)</td>
<td>38</td>
</tr>
<tr>
<td>Side Mount Bracket</td>
<td>38</td>
</tr>
<tr>
<td>ASMB-2 (Aluminium Version)</td>
<td>38</td>
</tr>
<tr>
<td>Extended Bayonet Flange</td>
<td>39</td>
</tr>
<tr>
<td>EBF</td>
<td>39</td>
</tr>
<tr>
<td>Weld Riser</td>
<td>39</td>
</tr>
<tr>
<td>WR</td>
<td>39</td>
</tr>
</tbody>
</table>
Plastic Filler Breather
Types SPB-1 / 2 / 3
(Threaded Version)

Characteristics
Designed to be used as filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments.

Features
- Available with 3 different cap diameters
- Threaded version, equipped with male BSP thread (ISO 228) or male NPT thread (ANSI B1.20.1)
- Operating temperature range: -40 °C ... +120 °C / -40 °F ... +248 °F

Materials
- Made of non-corrosive materials
- Body and cap made of glass-fibre reinforced Polyamide (PA)
- Sealings made of NBR (Buna-N®)
Contact STAUFF for alternative materials.

Accessories / Options
- Pressurisation up to 0.7 bar / 10 PSI (not available for SPB-1)
- Air filter element
- Anti-splash feature
- Plastic dipstick with integrated anti-splash feature
- Plastic dipstick with integrated magnet
- Oil Demister (not available for SPB-1)
Please see pages 26 and 47 for details.

Maximum Air Flow Rate
- 0.15 m³/min / 5.30 cfm for SPB-1
- 0.40 m³/min / 14.13 cfm for SPB-2
- 1.00 m³/min / 35.31 cfm for SPB-3
Please see page 27 for detailed air flow curves.

Installation
- Recommended mounting spaces: Ø45 (Ø1.77) for SPB-1, Ø70 (Ø2.76) for SPB-2, and Ø101 (Ø3.98) in for SPB-3

Order Codes

<table>
<thead>
<tr>
<th>SPB</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Plastic Filler Breather</td>
<td>SPB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version</td>
<td>Threaded version: Cap diameter Ø45 mm (Ø1.77 in)</td>
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<tr>
<td>Threaded version: Cap diameter Ø70 mm (Ø2.76 in)</td>
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<td></td>
</tr>
<tr>
<td>Threaded version: Cap diameter Ø101 mm (Ø3.98 in)</td>
<td>3</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Pressurisation</td>
<td>Without pressurisation (standard option)</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressurised at 0.2 bar / 3 PSI</td>
<td>B0.2</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Pressurised at 0.7 bar / 10 PSI</td>
<td>B0.7</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Type SPB-1 is only available without pressurisation. Please see page 26 for details.</td>
<td></td>
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</tr>
<tr>
<td>Air Filter Element (Material / Micron Rating)</td>
<td>10 μm Foam / PUR (standard option)</td>
<td>10</td>
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</tr>
<tr>
<td>40 μm Foam / PUR</td>
<td>40</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>3 μm Inorganic Glass-Fibre, pleated</td>
<td>E03</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10 μm Filter Paper, pleated</td>
<td>L10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Options E03 and L10 are only available for type SPB-3. Contact STAUFF for alternative materials / micron ratings.</td>
<td></td>
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</tr>
<tr>
<td>Connection Thread (Male)</td>
<td>G1/4 (for SPB-1 only)</td>
<td>B04</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>G3/8 (for SPB-1 and 2 only)</td>
<td>B06</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G1/2 (for SPB-1, 2 and 3)</td>
<td>B08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G3/4 (for SPB-2 and 3 only)</td>
<td>B12</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1/4 NPT (for SPB-1 only)</td>
<td>B16</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3/8 NPT (for SPB-1 only)</td>
<td>N04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 NPT (for SPB-1 only)</td>
<td>N06</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4 NPT (for SPB-1, 2 and 3)</td>
<td>N08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 NPT (for SPB-3 only)</td>
<td>N12</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Anti-Splash Feature</td>
<td>With anti-splash feature (standard option)</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without anti-splash feature</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The anti-splash feature for the SPB-1 can only be achieved in conjunction with a dipstick, but is not available for the SPB-1 with connection sizes B04 and N04. Please see page 26 for details.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dipstick</td>
<td>Plastic dipstick (200 mm / 7.88 in) with integrated anti-splash feature</td>
<td>D200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastic dipstick (300 mm / 11.81 in) with integrated anti-splash feature</td>
<td>D300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastic dipstick (300 mm / 11.81 in) with integrated magnet</td>
<td>D300M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without dipstick</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements. Please see page 26 for details.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensional drawings: All dimensions in mm (in).
Characteristics

Designed to be used as filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments.

Features
- Cap diameter of Ø101 mm / Ø3.98 in
- Either for clamping installation (with 3 clamping jaws and cross-drive screws) or with a six-hole bolt pattern
- Operating temperature range: -40 °C ... +120 °C / -40 °F ... +248 °F

Materials
- Made of non-corrosive materials
- Body and cap made of glass-fibre reinforced Polyamide (PA)
- Sealings made of NBR (Buna-N®)
Contact STAUFF for alternative materials.

Accessories / Options
- Plastic basket (800 μm)
- Pressurisation up to 0.7 bar / 10 PSI
- Air filter element
- Anti-splash feature
- Plastic dipstick with integrated anti-splash feature
- Plastic dipstick with integrated magnet

Please see page 26 for details.

Maximum Air Flow Rate
- 1.00 m³/min / 35.31 cfm for SPB-4 / 5

Please see page 27 for detailed air flow curves.

Installation
- Recommended mounting space: Ø122 mm / Ø4.80 in
- Six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2 (type SPB-5):
  - 6 sheet metal screws (ISO 7049-St 4.8 x 16-C-H) are included in delivery (type SPB-5); can be replaced by regular M5 socket cap screws (ISO 4762), if required
  - Recommended diameters of the screw holes, depending on the sheet thickness of the reservoir (type SPB-5):
    - Ø4.0 mm / 0.16 in at a thickness of 1.20 mm / .05 in
    - Ø4.1 mm / 0.16 in at a thickness of 2.00 mm / .08 in
    - Ø4.3 mm / 0.17 in at a thickness of 4.00 mm / .16 in
    - Ø4.4 mm / 0.17 in at a thickness of 5.00 mm / .20 in

Order Codes

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
<th>Pressurisation</th>
<th>Basket Option</th>
<th>Anti-Splash Feature</th>
<th>Dipstick</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPB</td>
<td>Bayonet version for clamping jaw installation to a single mounting hole; Cap diameter Ø101 mm (Ø3.98 in)</td>
<td>Without pressurisation (standard option)</td>
<td>Plastic basket (105 mm / 4.13 in)</td>
<td>With anti-splash feature (standard option)</td>
<td>Plastic dipstick (200 mm / 7.88 in)</td>
</tr>
<tr>
<td></td>
<td>Bayonet Version with six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2; Cap diameter Ø101 mm (Ø3.98 in)</td>
<td>Pressurised at 0.2 bar / 3 PSI</td>
<td>Telescopic plastic basket</td>
<td>Without anti-splash feature</td>
<td>with integrated anti-splash feature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.3 bar / 5 PSI</td>
<td>Plastic basket with flange interface similar to DIN 24557, part 2</td>
<td></td>
<td>with integrated magnet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.7 bar / 10 PSI</td>
<td>Without basket</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please see page 26 for details.

Contact STAUFF for alternative materials.

Order Codes

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
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</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.3 bar / 5 PSI</td>
<td>Plastic basket with flange interface similar to DIN 24557, part 2</td>
<td></td>
<td>with integrated magnet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.7 bar / 10 PSI</td>
<td>Without basket</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please see page 26 for details.

Contact STAUFF for alternative materials.

Order Codes

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
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<th>Anti-Splash Feature</th>
<th>Dipstick</th>
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<tr>
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<td>Plastic basket (105 mm / 4.13 in)</td>
<td>With anti-splash feature (standard option)</td>
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<tr>
<td></td>
<td>Bayonet Version with six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2; Cap diameter Ø101 mm (Ø3.98 in)</td>
<td>Pressurised at 0.2 bar / 3 PSI</td>
<td>Telescopic plastic basket</td>
<td>Without anti-splash feature</td>
<td>with integrated anti-splash feature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.3 bar / 5 PSI</td>
<td>Plastic basket with flange interface similar to DIN 24557, part 2</td>
<td></td>
<td>with integrated magnet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.7 bar / 10 PSI</td>
<td>Without basket</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please see page 26 for details.

Contact STAUFF for alternative materials.

Order Codes

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
<th>Pressurisation</th>
<th>Basket Option</th>
<th>Anti-Splash Feature</th>
<th>Dipstick</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Without pressurisation (standard option)</td>
<td>Plastic basket (105 mm / 4.13 in)</td>
<td>With anti-splash feature (standard option)</td>
<td>Plastic dipstick (200 mm / 7.88 in)</td>
</tr>
<tr>
<td></td>
<td>Bayonet Version with six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2; Cap diameter Ø101 mm (Ø3.98 in)</td>
<td>Pressurised at 0.2 bar / 3 PSI</td>
<td>Telescopic plastic basket</td>
<td>Without anti-splash feature</td>
<td>with integrated anti-splash feature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.3 bar / 5 PSI</td>
<td>Plastic basket with flange interface similar to DIN 24557, part 2</td>
<td></td>
<td>with integrated magnet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.7 bar / 10 PSI</td>
<td>Without basket</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please see page 26 for details.

Contact STAUFF for alternative materials.

Order Codes

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
<th>Pressurisation</th>
<th>Basket Option</th>
<th>Anti-Splash Feature</th>
<th>Dipstick</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPB</td>
<td>Bayonet version for clamping jaw installation to a single mounting hole; Cap diameter Ø101 mm (Ø3.98 in)</td>
<td>Without pressurisation (standard option)</td>
<td>Plastic basket (105 mm / 4.13 in)</td>
<td>With anti-splash feature (standard option)</td>
<td>Plastic dipstick (200 mm / 7.88 in)</td>
</tr>
<tr>
<td></td>
<td>Bayonet Version with six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2; Cap diameter Ø101 mm (Ø3.98 in)</td>
<td>Pressurised at 0.2 bar / 3 PSI</td>
<td>Telescopic plastic basket</td>
<td>Without anti-splash feature</td>
<td>with integrated anti-splash feature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.3 bar / 5 PSI</td>
<td>Plastic basket with flange interface similar to DIN 24557, part 2</td>
<td></td>
<td>with integrated magnet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.7 bar / 10 PSI</td>
<td>Without basket</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please see page 26 for details.

Contact STAUFF for alternative materials.

Order Codes

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
<th>Pressurisation</th>
<th>Basket Option</th>
<th>Anti-Splash Feature</th>
<th>Dipstick</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPB</td>
<td>Bayonet version for clamping jaw installation to a single mounting hole; Cap diameter Ø101 mm (Ø3.98 in)</td>
<td>Without pressurisation (standard option)</td>
<td>Plastic basket (105 mm / 4.13 in)</td>
<td>With anti-splash feature (standard option)</td>
<td>Plastic dipstick (200 mm / 7.88 in)</td>
</tr>
<tr>
<td></td>
<td>Bayonet Version with six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2; Cap diameter Ø101 mm (Ø3.98 in)</td>
<td>Pressurised at 0.2 bar / 3 PSI</td>
<td>Telescopic plastic basket</td>
<td>Without anti-splash feature</td>
<td>with integrated anti-splash feature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.3 bar / 5 PSI</td>
<td>Plastic basket with flange interface similar to DIN 24557, part 2</td>
<td></td>
<td>with integrated magnet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressurised at 0.7 bar / 10 PSI</td>
<td>Without basket</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please see page 26 for details.

Contact STAUFF for alternative materials.
**Plastic Dipstick Types DS-1 / 2 / 3**

Ali-B and 300 are available in 2 standard lengths of 200 mm / 7.87 in and 300 mm / 11.81 in and equipped with 2 adjustable level indicators in green and red colour.

A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements. The markings at 25,4 mm / 1.00 in to assist simply cutting.

All dipsticks have an integrated anti-splash feature protecting the SPF from backspilling fluid and avoiding an early breakdown of the air filter element.

When choosing a combination of a dipstick and a basket (see below), the dipstick has to be at least 15 mm / .59 in shorter than the basket.

Please note: When choosing a combination of a dipstick and a basket (see below), the dipstick has to be at least 15 mm / .59 in shorter than the basket.

For all Plastic Filler Breathers (except type SPB-1 with connection sizes B04 and N04), dipsticks made of Polyamide are available as an option. These dipsticks are available in 2 standard lengths of 200 mm / 7.87 in and 300 mm / 11.81 in and equipped with 2 adjustable level indicators in green and red colour.

---

**Plastic Basket Types S080 / S095-P / S200**

For the Plastic Filler Breathers SPB-4 and SPB-5, different types of baskets are available as an option. All baskets have a reinforced 0,8 x 3,5 µm) so that rough dirt particles are filtered out of the medium and a smooth flow into the tank is being ensured.

The Plastic Basket S080 (length of 105 mm / 4.13 in) snaps into the breather housing and suitable for the SPB-4 and SPB-5.

The Plastic Basket S095-P (length of 95 mm / 3.74 in) is equipped with a six-hole bolt pattern with flange interface similar to DIN 24557, part 2. It is suitable for the SPB-5 / SMBB-80 only and is installed between the breather housing and the reservoir.

The Telescopic Plastic Basket S200 (maximum length of 205 mm / 8.07 in) is ideal to further improve the straining ability and oil flow-through and allowing longer dipstick lengths, where reservoir depth allows. It also snaps into the breather housing and is suitable for the SPB-4 and SPB-5.

Please note: When choosing a combination of a dipstick (see above) and a basket, the dipstick has to be at least 15 mm / .59 in shorter than the basket.

Special designs and alternative materials available on request. Please contact STAUFF for further details.

---

**Pressurisation**

Many tank filler breathers of the SPB, SMBB and SMBT series are also available as pressurised versions. Information on the specific valve and pressurisation settings that are available by default can be found on the corresponding catalogue pages.

When the fluid level inside the reservoir rises, no air is expelled from the reservoir until the pressurisation level is reached. With decreasing fluid level inside the reservoir, the tank pressure drops and it is ensured that air is drawn into the reservoir.

Due to less breathing, the service life of a filler breather and the oil can be increased by using the pressurisation feature. It also minimizes foaming and cavitation, and provides additional protection from moisture entering the reservoir which causes erosion and oil degradation.

---

**Further Accessories / Options**

- **Weld Riser • Type WR**
  Suitable for SPB-5
  (See page 39 for details)

- **Side Mount Bracket (Polyamide) • Type ASMB-1**
  Suitable for SPB-5
  (See page 38 for details)

- **Side Mount Bracket (Aluminium) • Type ASMB-2**
  Suitable for SPB-5
  (See page 38 for details)

---

Dimensional drawings: All dimensions in mm (in).
Pressure Drop Flow Curves

Tank Filler Breathers

Type SPB-1 (into / out of the tank)
- B04 and N04 (into / out of the tank)
- B06 and N06 (into / out of the tank)
- B08 and N08 (into / out of the tank)
- B12 and N12 (into / out of the tank)

Type SPB-2 (into / out of the tank)
- B12 and N12 (out of the tank; pressurised at 0,7 bar / 10 PSI)
- B12 and N12 (out of the tank; pressurised at 0,35 bar / 5 PSI)
- B12 and N12 (into the tank; pressurised at 0,7 bar / 10 PSI, 0,35 bar / 5 PSI or 0,2 bar / 3 PSI)
- B12 and N12 (out of the tank; without pressurisation)

Type SPB-3 (into / out of the tank)
- B12 and N12 (out of the tank; pressurised at 0,7 bar / 10 PSI)
- B12 and N12 (out of the tank; pressurised at 0,35 bar / 5 PSI)
- B12 and N12 (into the tank; pressurised at 0,7 bar / 10 PSI, 0,35 bar / 5 PSI or 0,2 bar / 3 PSI)
- B12 and N12 (out of the tank; without pressurisation)

Type SPB-4/5 (into the tank)
- B12 and N12 (into the tank; pressurised at 0,7 bar / 10 PSI, 0,35 bar / 5 PSI or 0,2 bar / 3 PSI)
- B12 and N12 (into the tank; without pressurisation)

Type SPB-4/5 (out of the tank)
- B12 and N12 (out of the tank; pressurised at 0,7 bar / 10 PSI)
- B12 and N12 (out of the tank; pressurised at 0,35 bar / 5 PSI)
- B12 and N12 (out of the tank; pressurised at 0,2 bar / 3 PSI)
- B12 and N12 (out of the tank; without pressurisation)
Plastic Filler Breather
Type SPBN
(Compact Design; Threaded or Bayonet Version)

Characteristics
Designed to be used as filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments; ideal for applications in which space is limited

Features
- Cap diameter of Ø70 mm / Ø2.76 in
- Threaded version, equipped with male BSP thread (ISO 228) or male NPT thread (ANSI B1.20.1)
- Bayonet version for flange interfaces, with a six-hole bolt pattern, similar to DIN 24557, part 2
- Operating temperature range: -40 °C ... +120 °C / -40 °F ... +248 °F

Materials
- Body and cap made of glass-fibre reinforced Polyamide (PA)
- Socket made of Steel, zinc-plated
- Bayonet flange made of Steel, zinc-plated
- Basket made of Steel, zinc-plated or Polyamide (PA)
- Sealings made of NBR (Buna-N®)

Accessories / Options
- Mounting set including bayonet flange, steel or plastic basket (800 μm), gaskets and bolts
- Pressurisation up to 0,7 bar / 10 PSI
- Anti-splash feature (for Threaded version only)
- Plastic dipstick with integrated anti-splash feature
- Plastic dipstick with integrated magnet

Order Codes

<table>
<thead>
<tr>
<th>Type</th>
<th>SPBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>Cap diameter Ø70 mm (Ø2.76 in) 2</td>
</tr>
<tr>
<td>Pressurisation</td>
<td>Without pressurisation (standard option) 0</td>
</tr>
<tr>
<td></td>
<td>Pressurised at 0.2 bar / 3 PSI B0.2</td>
</tr>
<tr>
<td></td>
<td>Pressurised at 0.35 bar / 5 PSI B0.35</td>
</tr>
<tr>
<td></td>
<td>Pressurised at 0.7 bar / 10 PSI B0.7</td>
</tr>
</tbody>
</table>

Please see page 29 for details.

Air Filter Element (Material / Micron Rating)
- 10μm Foam / PUR (standard option) 10
- 40μm Foam / PUR 40

Contact STAUFF for alternative materials / micron ratings.

Maximum Air Flow Rate
- 0.40 m³/min / 14.13 cfm

Installation
- Six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2 (bayonet version with mounting set)

- 6 slotted pan head screws (ISO 1580 M5 x 12-5.8) are included in delivery of the bayonet version with mounting set

Dimensions (Threaded Version)

<table>
<thead>
<tr>
<th>Thread</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male G3/4 BSP (ISO 228)</td>
<td>H1 19.5 / H2 49.5 / Hse 30</td>
</tr>
<tr>
<td>Male 3/4 NPT (ANSI B1.20.1)</td>
<td>H1 19.5 / H2 49.5 / Hse 30</td>
</tr>
</tbody>
</table>

Connection
- Male G3/4 thread B12
- Male 3/4 NPT thread N12
- Bayonet version; Breather only B5
- Bayonet version; Breather including mounting set (with bayonet flange, gaskets and bolts) BM
- Bayonet version; Option BS and metal basket with flange interface (80 mm / 3.15 in) S080
- Bayonet version; Option BS and metal basket with flange interface (100 mm / 3.94 in) S100
- Bayonet version; Option BS and metal basket with flange interface (150 mm / 5.91 in) S150
- Bayonet version; Option BS and metal basket with flange interface (200 mm / 7.87 in) S200
- Bayonet version; Option BS and plastic basket with flange interface (95 mm / 3.74 in) S095P

Anti-Splash Feature
- With anti-splash feature A
- Without anti-splash feature (standard option) 0

Please see page 29 for details.

Dipstick
- Plastic dipstick (200 mm / 7.88 in) with integrated anti-splash feature D200
- Plastic dipstick (300 mm / 11.81 in) with integrated anti-splash feature D300
- Plastic dipstick (300 mm / 11.81 in) with integrated magnet D300M
- Without dipstick -

A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements. Please see page 26 for details.
Plastic Dipstick

Anti-Splash Feature

For all Plastic Filler Breathers SPBN, dipsticks made of Polyamide are available as an option. These dipsticks are available in 2 standard lengths of 200 mm / 7.87 in and 300 mm / 11.81 in and equipped with 2 adjustable level indicators in green and red colour. A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements.

All dipsticks have an integrated anti-splash feature protecting the SPBN from backspilling fluid and avoiding an early breakdown of the air filter element. For Plastic Filler Breathers without dipstick, the anti-splash function can be achieved by an integrated concave baffle.

Please note: When choosing a combination of a dipstick and a basket, the dipstick has to be at least 15 mm / .59 in shorter than the basket.

Special designs and alternative materials available on request.
Please contact STAUFF for further details.

Pressurisation

Many tank filler breathers of the SPB, SMBB and SMBT series are also available as pressurised versions. Information on the specific valve and pressurization settings that are available by default can be found on the corresponding catalogue pages.

When the fluid level inside the reservoir rises, no air is expelled from the reservoir until the pressurisation level is reached. With decreasing fluid level inside the reservoir, the tank pressure drops and it is ensured that air is drawn into the reservoir.

Due to less breathing, the service life of a filler breather and the oil can be increased by using the pressurisation feature. It also minimizes foaming and cavitation, and provides additional protection from moisture entering the reservoir which causes erosion and oil degradation.

Further Accessories / Options

Extended Bayonet Flange • Type EBF
Suitable for SPBN; Bayonet Version BM
(See page 39 for details)

Side Mount Bracket (Polyamide) • Type ASMB-1
Suitable for SPBN; Bayonet Version BM
(See page 38 for details)

Weld Riser • Type WR
Suitable for SPBN; Bayonet Version BM
(See page 39 for details)

Side Mount Bracket (Aluminium) • Type ASMB-2
Suitable for SPBN; Bayonet Version BM
(See page 38 for details)

Scope of Delivery / Order Codes

Mounting sets for baskets include the following components:

- 6 slotted pan head screws made of steel, zinc-plated (ISO 1580 M5 x 12.5-8)
- Bayonet flange made of steel, zinc-plated, with six-hole bolt pattern acc. to DIN 24557, part 2
- 2 gaskets made of NBR (Buna-N®) - one for underneath and one for on top of the basket
- Metal or plastic basket (only if required): S-080-M-F-SPBN-BS-B
  - Metal basket (80 mm / 3.15 in): S-100-M-F-SPBN-BS-B
  - Metal basket (100 mm / 3.94 in): S-150-M-F-SPBN-BS-B
  - Metal basket (200 mm / 7.87 in): S-200-M-F-SPBN-BS-B
- Plastic basket (85 mm / 3.43 in): S-095-F-F-SPBN-BS-B
- Without basket: Adapter-SPBN-BM-B

Mounting sets can also be ordered as part of a complete breather assembly. Please see page 28 for details.

Pressure Drop Flow Curves

Plastic Filler Breathers

<table>
<thead>
<tr>
<th>Q in m³/min</th>
<th>0</th>
<th>0.15</th>
<th>0.30</th>
<th>0.45</th>
<th>15.89</th>
</tr>
</thead>
<tbody>
<tr>
<td>Δp in bar</td>
<td>0</td>
<td>0.15</td>
<td>0.30</td>
<td>0.45</td>
<td></td>
</tr>
<tr>
<td>Δp in psi</td>
<td>0</td>
<td>0.15</td>
<td>0.30</td>
<td>0.45</td>
<td></td>
</tr>
</tbody>
</table>

Type SPBN (into the tank)

<table>
<thead>
<tr>
<th>Q in cfm</th>
<th>0</th>
<th>5.30</th>
<th>10.60</th>
<th>15.89</th>
</tr>
</thead>
<tbody>
<tr>
<td>Δp in bar</td>
<td>0</td>
<td>0.15</td>
<td>0.30</td>
<td>0.45</td>
</tr>
<tr>
<td>Δp in psi</td>
<td>0</td>
<td>0.15</td>
<td>0.30</td>
<td>0.45</td>
</tr>
</tbody>
</table>

Type SPBN (out of the tank)

<table>
<thead>
<tr>
<th>Q in m³/min</th>
<th>0</th>
<th>0.15</th>
<th>0.30</th>
<th>0.45</th>
</tr>
</thead>
<tbody>
<tr>
<td>Δp in bar</td>
<td>0</td>
<td>0.15</td>
<td>0.30</td>
<td>0.45</td>
</tr>
<tr>
<td>Δp in psi</td>
<td>0</td>
<td>0.15</td>
<td>0.30</td>
<td>0.45</td>
</tr>
</tbody>
</table>

Further designs and alternative materials available on request.
Please contact STAUFF for further details.
Plastic Filler Breather Mini
Type SPBM
(Thraed Version)

Characteristics
Designed to be used as filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments.

Features
- Available with different cap Logos
- Threaded version, equipped with male BSP thread (ISO 228)
- Operating temperature range: -40 °C ... +120 °C / -40 °F ... +248 °F

Materials
- Made of non-corrosive materials
- Body and cap made of glass-fibre reinforced Polyamide (PA)
- Sealings made of NBR (Buna-N®)

Contact STAUFF for alternative materials.

Accessories / Options
- Air filter element
- Anti-splash feature
- Plastic dipstick with integrated anti-splash feature
- Plastic dipstick with integrated magnet

Please see page 26 for details.

Maximum Air Flow Rate
- 0.25 m³/min / 8.83 cfm

Please see below for detailed air flow curves.

Installation
- Recommended mounting spaces:
  Ø48 mm / Ø1.89 in

Pressure Drop Flow Curves

Type SPBM (into the tank)

<table>
<thead>
<tr>
<th>Q in m³/min</th>
<th>Δp in PSI</th>
<th>Δp in bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0.05</td>
<td>0.03</td>
</tr>
<tr>
<td>0.10</td>
<td>0.15</td>
<td>0.1</td>
</tr>
<tr>
<td>0.25</td>
<td>0.25</td>
<td>0.18</td>
</tr>
<tr>
<td>0.50</td>
<td>0.30</td>
<td>0.2</td>
</tr>
</tbody>
</table>

With anti-splash feature and Dipstick

With anti-splash feature

Type SPBM (out of the tank)

<table>
<thead>
<tr>
<th>Q in m³/min</th>
<th>Δp in PSI</th>
<th>Δp in bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0.05</td>
<td>0.03</td>
</tr>
<tr>
<td>0.10</td>
<td>0.15</td>
<td>0.1</td>
</tr>
<tr>
<td>0.25</td>
<td>0.25</td>
<td>0.18</td>
</tr>
<tr>
<td>0.50</td>
<td>0.30</td>
<td>0.2</td>
</tr>
</tbody>
</table>

With anti-splash feature and Dipstick

With anti-splash feature

Order Codes

<table>
<thead>
<tr>
<th>SPBM</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>B08</th>
<th>A</th>
<th>D200</th>
</tr>
</thead>
</table>

1. Type
   Plastic Filler Breather Mini SPBM

2. Version
   Threaded version; Cap diameter Ø30 mm (Ø1.18 in) 1

3. Logo
   - STAUFF Logo (black cap) S
   - OIL Logo (red cap) O
   - Neutral design without any Logo N

Contact STAUFF for special Logos / Colors.

4. Air Filter Element (Material / Micron Rating)
   - Without air filter element 0
   - 10 μm Foam / PUR (standard option) 10

Contact STAUFF for alternative materials / micron ratings.

5. Connection Thread (Male)
   G1/2 BSP B08

6. Anti-Splash Feature
   - With anti-splash feature (standard option) A
   - Without anti-splash feature 0

7. Dipstick
   - Plastic dipstick (200 mm / 7.88 in) with integrated anti-splash feature D200
   - Plastic dipstick (300 mm / 11.81 in) with integrated anti-splash feature D300
   - Plastic dipstick (300 mm / 11.81 in) with integrated magnet D300M
   - Without dipstick -

A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements. Please see page 26 for details.

Dimensional drawings: All dimensions in mm (in).
Order Codes

<table>
<thead>
<tr>
<th>1 Type</th>
<th>2 Version</th>
<th>3 Basket / Dipstick Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic Filler Breather SES</td>
<td>Threaded version 1</td>
<td>Plastic basket (81 mm / 3.19 in) S</td>
</tr>
<tr>
<td></td>
<td>Welded version 2</td>
<td>Metal dipstick (300 mm / 11.81 in) M300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Metal dipstick (500 mm / 19.69 in) M500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Without basket / dipstick 0</td>
</tr>
</tbody>
</table>

Accessories

- **Plastic Basket**
- **Metal Dipstick**

Characteristics

- Designed to be used as filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments

Features

- Cap diameter of Ø62 mm / Ø2.44 in
- Threaded version, equipped with male Metric ISO thread M45 x 2 and lock nut, or welded version with welding socket made of Steel (1.0718), untreated
- Supplied with 45 μm air filter element
- Operating temperature range: -40 °C ... +120 °C / -40 °F ... +248 °F

Materials

- Breather cap made of Polysamide (PA)
- Breather body / stud made of Polysamide (PA)
- Nut (type SES-1) made of Steel (1.0718); Polysamide (PA) available on request
- Welding socket (type SES-2) made of Steel (1.0718), untreated; Stainless Steel (V2A) available on request
- Air filter element made of Sintered Bronze
- Basket made of Polysamide (PA)
- Dipstick made of Steel (1.0718)
- Sealings made of NBR (Buna-N®)

Contact STAUFF for alternative materials.

Accessories / Options

- Plastic basket (300μm)
- Metal dipstick

Maximum Air Flow Rate

- 0.30 m³/min / 10.60 cfm

Contact STAUFF for detailed air flow curves.

Installation

- Recommended diameter in the reservoir cap
  - SES-1: Ø46 ±1 mm / Ø1.81 in ±0.04 mm
  - SES-2: Ø38 ±1 mm / Ø1.50 in ±0.04 mm
Metal Filler Breather
Type SMBT-47
(Threading Version)

Characteristics
Designed to be used as filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments.

Features
- Cap diameter of Ø47 mm / Ø1.85 in
- Threaded version, equipped with male BSP thread (ISO 228) or male NPT thread (ANSI B1.20.1)
- Operating temperature range: -30 °C ... +120 °C / -22 °F ... +248 °F

Materials
- Breather cap made of Steel, zinc/nickel-plated (Fe/Zn Ni 6) and free of hexavalent chromium CrVI (standard option); chrome-plated and epoxy-coated versions available
- Threaded socket made of Steel, zinc-plated

Contact STAUFF for alternative materials.

Accessories / Options
- Air filter element

Maximum Air Flow Rate
- 0.40 m³/min / 14.13 cfm

Contact STAUFF for detailed air flow curves.

Dimensions

<table>
<thead>
<tr>
<th>Thread</th>
<th>Dimensions ISO/EN</th>
<th>H1</th>
<th>H2</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male G1/4 BSP (ISO 228)</td>
<td>10</td>
<td>41</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Male G3/8 BSP (ISO 228)</td>
<td>13</td>
<td>41</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>Male G1/2 BSP (ISO 228)</td>
<td>14</td>
<td>41</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Thread Dimensions (mm/in)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>H1</td>
<td>H2</td>
<td>Hex</td>
<td></td>
</tr>
<tr>
<td>Male G1/4 NPT (ANSI B1.20.1)</td>
<td>13</td>
<td>41</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Male 3/8 NPT (ANSI B1.20.1)</td>
<td>15</td>
<td>41</td>
<td>19</td>
<td></td>
</tr>
</tbody>
</table>

Order Codes

Type / Version
- Metal Filler Breather, threaded version: SMBT

Cap Diameter / Material / Surface Finishing
- Cap diameter Ø47 mm (Ø1.85 in): Breather cap made of Steel, zinc/nickel-plated (standard option)
- Cap diameter Ø47 mm (Ø1.85 in): Breather cap made of Steel, chrome-plated
- Cap diameter Ø47 mm (Ø1.85 in): Breather cap made of Steel, epoxy-coated

Label
- With STAUFF logo (standard option): S
- Neutral design without any logo: N

Air Filter Element (Material / Micron Rating)
- Without Breather Function: 0
- 3 µm Filter Paper: 03
- 10 µm Foam / PUR (standard option): 10
- 40 µm Foam / PUR: 40

Contact STAUFF for alternative materials or micron ratings.

Pressurisation
- Without pressurisation (standard option): 0

No pressurisation available for this cap diameter.

Connection Thread (Male)
- G1/4: B04
- G3/8: B06
- G1/2: B08
- 1/4 NPT: N04
- 3/8 NPT: N06

Contact STAUFF for alternative threads.
### Metal Filler Breather  
**Type SMBB-47**  
(Bayonet Version)

#### Characteristics

- **Designed to be used as filler ports for hydraulic reservoirs,** allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments.

#### Features

- Cap diameter of Ø47 mm / Ø1.85 in
- Bayonet version with a three-hole bolt pattern
- Operating temperature range:  
  -30 °C ... +120 °C / -22 °F ... +248 °F

#### Materials

- Breather cap made of Steel, zinc/nickel-plated (Fe/Zn Ni 6) and free of hexavalent chromium CrVI (standard option); chrome-plated and epoxy-coated versions available
- Bayonet flange made of Steel, zinc-plated
- Basket made of Steel, zinc-plated
- Sealings made of Cork

Contact STAUFF for alternative materials.

#### Accessories / Options

- **Metal basket (800 μm)**
- **Air filter element**

#### Maximum Air Flow Rate

- 0.40 m³/min / 14.13 cfm

Contact STAUFF for detailed air flow curves.

#### Installation

- Three-hole bolt pattern for flange interfaces:
  - 3 slotted pan head screws (ISO 1565; M5 x 12-5.8) are included in delivery; can be replaced by regular M5 bolts, if required

---

### Order Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMBB-47</td>
<td>Metal Filler Breather; Bayonet version</td>
</tr>
<tr>
<td>Cap Diameter / Material / Surface Finishing</td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, zinc/nickel-plated (standard option)</td>
</tr>
<tr>
<td>47C</td>
<td>Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, chrome-plated</td>
</tr>
<tr>
<td>47E</td>
<td>Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, epoxy-coated</td>
</tr>
<tr>
<td>Label</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>With STAUFF logo (standard option)</td>
</tr>
<tr>
<td>N</td>
<td>Neutral design without any logo</td>
</tr>
<tr>
<td>Air Filter Element (Material / Micron Rating)</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Without Breather Function</td>
</tr>
<tr>
<td>03</td>
<td>3 μm Filter Paper</td>
</tr>
<tr>
<td>10</td>
<td>10 μm Foam / PUR (standard option)</td>
</tr>
<tr>
<td>40</td>
<td>40 μm Foam / PUR</td>
</tr>
</tbody>
</table>

Contact STAUFF for alternative materials / micron ratings.
Metal Filler Breather
Type SMBT-80
(Thraeded Version)

Characteristics
Designed to be used as filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments.

Features
- Cap diameter of Ø80 mm / Ø3.15 in
- Threaded version, equipped with male BSP thread (ISO 228) or male NPT thread (ANSI B1.20.1)
- Operating temperature range: -30 °C ... +120 °C / -22 °F ... +248 °F

Materials
- Breather cap made of Steel, zinc/nickel-plated (Fe/Zn Ni 6) and free of hexavalent chromium CrVI (standard option); chrome-plated and epoxy-coated versions available
- Threaded socket made of Steel, zinc-plated
- Dipstick adaptor made of Polyamide (PA)

Contact STAUFF for alternative materials.

Accessories / Options
- Pressurisation up to 0.7 bar / 10 PSI
- Air filter element
- Dipstick adaptor suitable for plastic dipstick DS-1 (not for connection threads G1/2 and 1/2 NPT)
- Plastic dipstick with integrated magnet
- Oil Demister

Please see pages 26 and 47 for details.

Maximum Air Flow Rate
- 0.45 m³/min / 15.89 cfm

Contact STAUFF for detailed air flow curves.

Dimensions

<table>
<thead>
<tr>
<th>Thread</th>
<th>Dimensions Ø80 mm (Ø3.15 in)</th>
<th>H1</th>
<th>H2</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male G1/2 BSP (ISO 228)</td>
<td>14</td>
<td>54</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Male G3/4 BSP (ISO 228)</td>
<td>16</td>
<td>54</td>
<td>30</td>
<td>80C</td>
</tr>
<tr>
<td>Male G1 BSP (ISO 228)</td>
<td>19</td>
<td>54</td>
<td>36</td>
<td>80E</td>
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</tbody>
</table>

Order Codes

<table>
<thead>
<tr>
<th>Type / Version</th>
<th>Cap Diameter / Material / Surface Finishing</th>
<th>Air Filter Element (Material / Micron Rating)</th>
<th>Pressurisation</th>
<th>Connection Thread (Male)</th>
<th>Dipstick</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal Filler Breather; Threaded version SMBT</td>
<td>Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, zinc/nickel-plated (standard option)</td>
<td>Without Breather Function</td>
<td>Without pressurisation (standard option)</td>
<td>G1/2</td>
<td>Without dipstick (standard option)</td>
</tr>
<tr>
<td></td>
<td>Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, chrome-plated</td>
<td>3 μm Filter Paper</td>
<td>Pressurised at 0.35 bar / 5 PSI</td>
<td>B08</td>
<td>With dipstick compatible (standard option)</td>
</tr>
<tr>
<td></td>
<td>Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, epoxy-coated</td>
<td>10 μm Foam / PUR (standard option)</td>
<td>Pressurised at 0.7 bar / 10 PSI</td>
<td>B12</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40 μm Foam / PUR</td>
<td></td>
<td>G1</td>
<td>D300</td>
</tr>
</tbody>
</table>

 dimensional drawings: All dimensions in mm (in).

Please note: The dipstick adaptor is not available for connection threads G1/2 and 1/2 NPT.

Contact STAUFF for alternative materials / micron ratings.

Contact STAUFF for alternative threads.
**Tank Filler Breathers**

### Metal Filler Breather

**Type SMBB-80**

(Bayonet Version)

---

**Order Codes**

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Type / Version</td>
<td>80</td>
<td>S</td>
<td>L</td>
<td>10</td>
<td>O</td>
</tr>
</tbody>
</table>

1. **Type / Version**
   - Metal Filler Breather; Bayonet version SMBB

2. **Cap Diameter / Material / Surface Finishing**
   - Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, zinc-plated (standard option) B
   - Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, chrome-plated B0C
   - Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, epoxy-coated B0E

3. **Label**
   - With STAUFF logo (standard option) S
   - Neutral design without any logo N

4. **Locking Feature**
   - Without locking feature (standard option) O
   - With locking feature (see drawing above) L

5. **Air Filter Element (Material / Micron Rating)**
   - Without Breather Function 0
   - 3 µm Filter Paper 03
   - 10 µm Foam / PUR (standard option) 10
   - 40 µm Foam / PUR 40

---

**Features**

- Cap diameter Ø80 mm / Ø3.15 in
- Bayonet version with a six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2
- Operating temperature range: 
  -30 °C ... +120 °C / -22 °F ... +248 °F

**Materials**

- Breather cap made of Steel, zinc/nickel-plated (Fe/Zn Ni 6)
- and free of hexavalent chromium CrVI (standard option);
- chrome-plated and epoxy-coated versions available
- Bayonet flange made of Steel, zinc-plated
- Basket made of Steel, zinc-plated or Polyamide (PA)
- Dipstick adaptor made of Polyamide (PA)
- Sealings made of Cork (for filler breathers without pressurisation) or NBR (Buna-N®) (for pressurised filler breathers)

Contact STAUFF for alternative materials.

**Accessories / Options**

- Metal or plastic basket (800 µm)
- Pressurisation up to 0.7 bar / 10 PSI
- Air filter element
- Locking feature
- Dipstick adaptor (suitable for plastic dipstick DS-1)
- Plastic dipstick with integrated anti-splash feature
- Plastic dipstick with integrated magnet

Please see page 26 for details.

**Maximum Air Flow Rate**

- 0.45 m³/min / 15.89 cfm

Contact STAUFF for detailed air flow curves.

---

**Installation**

- Six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2:
  - 6x Bore M5

---

**Dimensions**

- Depending on Basket Option: 126 mm / 4.96 in
- BCD Ø73 (Ø2.87)
- Ø50 (Ø1.97)
- Ø80 (Ø3.15)

---

**Characteristics**

- Designed to be used as filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments

---

**Contact Information**

- Contact STAUFF for alternative materials.
- Contact STAUFF for detailed air flow curves.

---

**Notes**

- 6 slotted pan head screws (ISO 1580 M5 x 12.58) are included in delivery; can be replaced by regular M5 bolts, if required.
Metal Breather
Type SMBP-80
(Push-On Version)

Characteristics

Designed to be used as filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments.

Features
- Cap diameter of Ø80 mm / Ø3.15 in
- Push-on version, suitable for pipe diameters up to 38 mm / 1.50 in
- Operating temperature range: -30 °C ... +120 °C / -22 °F ... +248 °F

Materials
- Breather cap made of Steel, zinc/nickel-plated (Fe/Zn Ni 6) and free of hexavalent chromium CrVI (standard option); chrome-plated and epoxy-coated versions available.

Order Codes

1 Type / Version
   Metal Breather; Push-on version SMBP

2 Cap Diameter / Material / Surface Finishing
   Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, zinc/nickel-plated (standard option) SMBP 80
   Cap diameter Ø80 (Ø3.15 in); Breather cap made of Steel, chrome-plated 80C
   Cap diameter Ø80 (Ø3.15 in); Breather cap made of Steel, epoxy-coated 80E

3 Label
   With STAUFF logo (standard option) S
   Neutral design without any logo N

4 Air Filter Element (Material / Micron Rating)
   Without Breather Function 0
   10 μm Foam / PUR (standard option) 10
   40 μm Foam / PUR 40
   Contact STAUFF for alternative materials / micron ratings.

5 Dipstick
   Without dipstick (standard option) 0

Accessories / Options
- Air filter element
- Maximum Air Flow Rate
  - 0,45 m³/min / 15.89 cfm

Contact STAUFF for detailed air flow curves.

Dimensional drawings: All dimensions in mm (in).
Lockable Metal Filler Breather
Type SMBL
(Clamping, Threaded and Push-On Version)

Characteristics

Designed to be used as lockable filler ports for hydraulic reservoirs, allowing the reservoir to breathe whilst protecting it from contamination found in harsh environments.

Features
- Available as clamping version (with 3 clamping jaws), as threaded version (with female BSP thread) or push-on version, suitable for stand pipe mounting with pipe diameters up to 77.5 mm / 3.05 in (secured by 3 locking screws)
- Key-lockable cap (2 keys included)
- Lock protected by rotating flap
- Operating temperature range: -30 °C ... +100 °C / -22 °F ... +212 °F
- Air flow in both directions, one direction only or no direction

Materials
- Breather cap made of Aluminium, lacquered (light-grey, RAL 9022)
- Breather body made of Aluminium and steel zinc-plated
- Basket made of Steel, zinc-plated or Polypropylene (PP)
- Sealings made of NBR (Buna-N®) (standard option); FKM (Viton®) sealed version available

Accessories / Options
- Metal or plastic basket (800 μm; telescopic)
- Air filter element

Order Codes

- **Type**
  - Lockable Metal Filler Breather: SMBL

- **Version**
  - Clamping version with 3 clamping jaws; Installation to a tank mounting hole of: C
  - Threaded version with female G2 BSP thread: G32
  - Threaded version with female G2-1/2 BSP thread: G40
  - Push-on version for stand pipe mounting: P

- **Air Filter Element (Material / Micron Rating)**
  - Without Breather Function: 0
  - 10 μm Foam / PUR (standard option): 10
  - 40 μm Foam / PUR: 40

- **Sealing Material**
  - NBR (Buna-N®) (standard option): B
  - FKM (Viton®): V

- **Cap Design**
  - Breather cap made of Aluminium, lacquered (light-grey, RAL 9022): 0
Side Mount Bracket
Type ASMB-1
(Polyamide Version)

Characteristics
Lateral fastening of filler breathers with a six-hole flange connection similar to DIN 24557, part 2 to vertical or sloped walls of hydraulic reservoirs; ideal for applications in which space is limited

Suitability
• Suitable for Plastic Filler Breathers SPB-5 and SPBN (bayonet version) and Metal Filler Breathers SMBB-80

Materials
• Mounting bracket made of Polyamide (PA)
• Seal plate made of Klingerit
• Screws and hex nuts made of Steel, zinc-plated
• Washers made of Steel, zinc-plated
• Plastic spacers made of Polyamide (PA)

Scope of Delivery
• 1 mounting bracket
• 1 seal plate
• 7 socket cap screws M6 x 25 (ISO 4762)
• 7 plastic spacers 6,4 (DIN 125)
• 7 hex nuts M6 (ISO 4032)
• 7 washers 6,4 (DIN 9021)
• 6 sheet metal screws 4,8x13 (ISO 7049)

Installation
• Bolted to the side of the reservoir
• Bayonet flange of filler breather is placed on top
• Flange interface similar to DIN 24557, part 2 with 6 equally spaced mounting bores Ø4,5 mm / Ø.18 in (BCD Ø71±0,2 mm / Ø2.80±.01 in)

Side Mount Bracket
Type ASMB-2
(Aluminium Version)

Characteristics
Lateral fastening of filler breathers with a six-hole flange connection similar to DIN 24557, part 2 to vertical or sloped walls of hydraulic reservoirs; ideal for applications in which space is limited

Suitability
• Suitable for Plastic Filler Breathers SPB-5 and SPBN (bayonet version) and Metal Filler Breathers SMBB-80

Materials
• Mounting bracket made of Aluminium
• Seal plate made of NBR (Buna-N®)
• Screws made of Steel, phosphated
• Washers made of gasket paper

Scope of Delivery
• 1 mounting bracket
• 1 seal plate
• 6 socket cap screws M6 x 20 (ISO 4762)
• 6 plastic spacers 6,4 (DIN 125)

Installation
• Bolted to the side of the reservoir
• Bayonet flange of filler breather is placed on top
• Flange interface similar to DIN 24557, part 2 with 6 equally spaced bores M5 (BCD Ø73±0,2 mm / Ø2.87±.01 in)

Order Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Housing Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMBB-ASMB</td>
<td>Side Mount Bracket</td>
<td>Polyamide (PA)</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Dimensional drawings: All dimensions in mm (in).
Extended Bayonet Flange
Type EBF

**Characteristics**
- Designed to raise filler breathers either 24 mm / .94 in or 54 mm / 2.12 in above the actual mounting surface of the reservoir to prevent contamination from blocking the filter element.

**Suitability**
- Suitable for Metal Filler Breathers SMBB-80 and Plastic Filler Breathers SPBN (bayonet version)
- Replaces the existing bayonet flanges of these breathers

**Materials**
- Bayonet flange made of Steel, zinc-plated

**Installation**
- Six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2:
  - Supplied without gaskets and bolts

**Order Codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Size</th>
<th>Anti-Splash Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBF</td>
<td>Extended Bayonet Flange</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>With anti-splash feature</td>
</tr>
</tbody>
</table>

---

Weld Riser
Type WR

**Characteristics**
- Designed to raise filler breathers 25.4 mm / 1.00 in above the actual mounting surface of the reservoir to prevent contamination from blocking the filter element whilst eliminating the requirement to drill and tap on the reservoir.

**Suitability**
- Suitable for Metal Filler Breathers SMBB-80 as well as Plastic Filler Breathers SPB-5 and SPBN (bayonet version) and all components with a six-hole flange connection similar to DIN 24557, part 2

**Materials**
- Weld riser made of Steel, untreated

**Installation**
- Welded to the top of the reservoir
- No requirement to drill and tap on the reservoir
- Bayonet flange of filler breather is placed on top

**Order Codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR</td>
<td>Weld Riser</td>
<td>1</td>
</tr>
</tbody>
</table>

---

Dimensional drawings: All dimensions in mm (in).
<table>
<thead>
<tr>
<th>Giant Air Breathers</th>
<th>42 - 43</th>
</tr>
</thead>
<tbody>
<tr>
<td>Giant Air Breather</td>
<td>42</td>
</tr>
<tr>
<td>SGB</td>
<td></td>
</tr>
<tr>
<td>Air Breather Adaptor</td>
<td>43</td>
</tr>
<tr>
<td>TBA</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Desiccant Air Breathers</th>
<th>44 - 47</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDB</td>
<td>44</td>
</tr>
<tr>
<td>SVDB (Disposable Version)</td>
<td>45</td>
</tr>
<tr>
<td>SDB-CV (with Check Valves)</td>
<td>46</td>
</tr>
<tr>
<td>Adaptor Plate</td>
<td>47</td>
</tr>
<tr>
<td>AP</td>
<td></td>
</tr>
<tr>
<td>Visual Contamination Indicator</td>
<td>47</td>
</tr>
<tr>
<td>FM</td>
<td></td>
</tr>
<tr>
<td>Oil Demister</td>
<td>47</td>
</tr>
<tr>
<td>TBA-DD</td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Type</th>
<th>Thread</th>
<th>Dimensions (mm/in)</th>
<th>Filter Material</th>
<th>Micron Rating</th>
<th>Filter Surface</th>
<th>Max. Air Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGB-060-03-B</td>
<td>Female M20 x 1,5 (ISO 13-2)</td>
<td>Ø68 60</td>
<td>Synthetic Fibre</td>
<td>3 µm</td>
<td>415 cm²</td>
<td>0.05 m³/min</td>
</tr>
<tr>
<td>SGB-090-03-B</td>
<td>Female G3/4 BSP (ISO 228)</td>
<td>Ø100 64</td>
<td>Synthetic Fibre</td>
<td>3 µm</td>
<td>752 cm²</td>
<td>0.70 m³/min</td>
</tr>
<tr>
<td>SGB-120-03-B</td>
<td>Female G1-1/4 BSP (ISO 228)</td>
<td>Ø130 100</td>
<td>Synthetic Fibre</td>
<td>3 µm</td>
<td>2095 cm²</td>
<td>1.50 m³/min</td>
</tr>
</tbody>
</table>

*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 | SGB  |
| 2 Size | 060  |
| 3 Filter Material / Micron Rating | 03   |
| 4 Connection Thread | B   |
| 5 Adaptor Option | A   |

1. Type
   Giant Air Breather

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

4. Connection Thread
   - Female BSP thread (according to dimension table) B

5. Adaptor Option
   - Without adaptor - A
   - With adaptor TBA-075-B (for SGB-090-03-B) or TBA-125-B (for SGB-120-03-B) A

Option A is only available for type SGB-090 and SGB-120.

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

**Order Codes and Dimensions**

<table>
<thead>
<tr>
<th>Thread T1</th>
<th>Thread T2</th>
<th>Dimensions (mm/in)</th>
<th>For Use with ...</th>
<th>Order Code</th>
</tr>
</thead>
</table>

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

**Pressurised Breather Adaptor
Type TBA-075-B12F-B12F-B0.35**

**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 / 5 PSI (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

*Dimensional drawings: All dimensions in mm (in).*
Desiccant Air Breather incl. Air Filter Element

Type SDB

Characteristics

Combination of air breather and water removal filter

When a reservoir or gearbox breathers, 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 μm air filter element to remove any solid contamination particles.

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.

Order Codes

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):

FM

Accessories / Spare Parts

Adaptor plate

Without adaptor plate

With adaptor plate AP

Contamination Indicator

Without contamination indicator

With visual contamination indicator FM (in conjunction with adaptor plate AP only)

Design Code

Only for information X

Replaceable air filter element SGB

Drying agent refilling material (non-toxic ZR gel grain)

Connection: Male BSP thread (ISO 228) on Stainless Steel tube

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

* ± 2 mm / .08 in

Features

Available in 4 different sizes

Diameter of Ø100 mm / Ø3.94 in or Ø130 mm / Ø5.12 in

Refrillable 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*

Giant and Desiccant Air Breathers

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.

Please see page 47 for further technical details.

Please see table above for further technical details.

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

Order Codes

- Type Desiccant Air Breather SDB

- Max. Water Absorption and Size

  86 g / .19 lbs at Ø100 mm / Ø3.94 in

  172 g / .38 lbs at Ø100 mm / Ø3.94 in

  288 g / .63 lbs at Ø130 mm / Ø5.12 in

  576 g / 1.27 lbs at Ø130 mm / Ø5.12 in

- Drying Agent Material

  Regular drying agent (standard option) SGB-090-03-B

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

- Adaptor Plate

  Without adaptor plate AP

  With adaptor plate AP

- Contamination Indicator

  Without contamination indicator FM

  With visual contamination indicator FM AP

- Design Code

  Only for information X
Desiccant Air Breather (Disposable Version)  
**Type SVDB**

**Dimensions and Technical Data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Thread T</th>
<th>Dimensions (mm/in)</th>
<th>ØD*</th>
<th>L1*</th>
<th>L2*</th>
<th>Weight (g/lbs)</th>
<th>Volume (cm³/in³)</th>
<th>Max. Water Absorption (g/lbs)</th>
<th>Max. Air Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVDB-093</td>
<td>Female G3/4 BSP (ISO 228)</td>
<td>94</td>
<td>109</td>
<td>18</td>
<td>400</td>
<td>225</td>
<td>300</td>
<td>86</td>
<td>0.70 m³/min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.70</td>
<td>4.68</td>
<td>.71</td>
<td>.88</td>
<td>.50</td>
<td>18.3</td>
<td>.19</td>
<td>24.71 cfm</td>
</tr>
<tr>
<td>SVDB-096</td>
<td>Female G3/4 BSP (ISO 228)</td>
<td>94</td>
<td>179</td>
<td>18</td>
<td>700</td>
<td>450</td>
<td>600</td>
<td>172</td>
<td>0.70 m³/min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.70</td>
<td>7.05</td>
<td>.71</td>
<td>1.54</td>
<td>.99</td>
<td>36.9</td>
<td>.38</td>
<td>24.71 cfm</td>
</tr>
</tbody>
</table>

* ± 2 mm / .08 in

**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*

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

**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.

**Order Codes**

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Water Absorption and Size</th>
<th>Connection Adaptor</th>
<th>Contamination Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVDB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>093</td>
<td>86 g / .99 lbs at Ø94 mm / Ø3.70</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>096</td>
<td>172 g / .38 lbs at Ø94 mm / Ø3.70</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Please see table above for further technical details.

**Accessories / Spare Parts**

Connection adaptor (see page 43 for details)
- For all sizes: TBA-075-B
- Adaptor plate: AP-1
- Visual contamination indicator: FM

*Note: STAUFF for alternative adaptors.*
Desiccant Air Breather with Check Valves
Type SDB-CV

Dimensions and Technical Data

<table>
<thead>
<tr>
<th>Type</th>
<th>Thread T</th>
<th>Dimensions ØD x L1 x L2 x Hex (mm)</th>
<th>Weight kg Complete Unit</th>
<th>Drying Agent</th>
<th>Max. Water Absorption ml / g</th>
<th>Air Filter Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDB-061-CV</td>
<td>Female G3/8</td>
<td>68 x 143 x 14 x 22</td>
<td>350</td>
<td>75</td>
<td>100</td>
<td>29</td>
</tr>
<tr>
<td>SDB-096-CV</td>
<td>Male G3/4</td>
<td>98 x 220 x 18 x 32</td>
<td>1500</td>
<td>450</td>
<td>600</td>
<td>172</td>
</tr>
<tr>
<td>SDB-121-CV</td>
<td>Male G1-1/4</td>
<td>130 x 258 x 25 x 50</td>
<td>2700</td>
<td>750</td>
<td>1000</td>
<td>288</td>
</tr>
<tr>
<td>SDB-122-CV</td>
<td>Male G1-1/4</td>
<td>130 x 355 x 25 x 50</td>
<td>4000</td>
<td>1500</td>
<td>2000</td>
<td>576</td>
</tr>
</tbody>
</table>

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 (in conjunction with adaptor plate only): FM

Drying agent refilling material (supplied in air tight container)
- for SDB-061-CV (100cm³ / 6.1 in³): RD-061
- for SDB-096-CV (600cm³ / 26.6 in³): RD-096
- for SDB-121-CV and SDB-122-CV (1000cm³ / 61.0 in³): RD-121
- for SDB-122-CV (2000cm³ / 122.8 in³): RD-122

Active carbon refilling material (supplied in air tight container)
- for SDB-096-CV and SDB-121-CV (300cm³ / 18.3 in³): RC-093/096/121
- for SDB-122-CV (600cm³ / 18.3 in³): RC-122
Please note: Use one layer of active carbon (1/3) and one layer of regular drying agent (2/3).

Replacement air filter element (sealing included)
- for SDB-061-CV: SGB-060-03-B
- for SDB-096-CV: SGB-090-03-B
- for SDB-121-CV and SDB-122-CV: SGB-120-03-B

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 particles.

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 (in conjunction with adaptor plate only): FM

Drying agent refilling material (supplied in air tight container)
- for SDB-061-CV (100cm³ / 6.1 in³): RD-061
- for SDB-096-CV (600cm³ / 26.6 in³): RD-096
- for SDB-121-CV and SDB-122-CV (1000cm³ / 61.0 in³): RD-121
- for SDB-122-CV (2000cm³ / 122.8 in³): RD-122

Active carbon refilling material (supplied in air tight container)
- for SDB-096-CV and SDB-121-CV (300cm³ / 18.3 in³): RC-093/096/121
- for SDB-122-CV (600cm³ / 18.3 in³): RC-122
Please note: Use one layer of active carbon (1/3) and one layer of regular drying agent (2/3).

Replacement air filter element (sealing included)
- for SDB-061-CV: SGB-060-03-B
- for SDB-096-CV: SGB-090-03-B
- for SDB-121-CV and SDB-122-CV: SGB-120-03-B

Order Codes

**Type**
- **Desiccant Air Breather** SDB

**Max. Water Absorption and Size**
- 26g / .06lbs at 68°F / 20°C 061
- 172 g / .38lbs at 0°F / -18°C 096
- 288 g / .63lbs at 80°F / 26.7°C 121
- 576 g / 1.27lbs at 130°F / 54°C 122

Please see table above for further technical details.

**Check Valves**
- With integrated spring-loaded check valves (0.01 bar / .15 PSI) CV

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

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

**Contamination Indicator**
- Without contamination indicator FM
- 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

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, 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

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

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

Features
- Available in 2 different sizes with lengths of 140mm / 5.51 in or 210mm / 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 made of Aluminum with cooling ribs or made of Steel
- Threaded adaptors made of Steel
Suction Strainers

SUS (Polyamide End Cap) 50

SUS (Aluminium End Cap) 51
Suction Strainer (Polyamide End Cap) 
Type SUS

### Characteristics
- Designed as in-tank suction strainer elements for direct installation into suction lines of pumps; should always be installed below the minimum fluid level of the reservoir.
- Available with female BSP thread (ISO 228) or female NPT thread (ANSI B1.20.1).
- Operating temperature range: -20°C ... +100°C / +4°F ... +212°F.

### Features
- Lower end cap and support tube made of Stainless Steel (321).
- Standard filter material is Stainless Steel Mesh (125 µm); alternative micron ratings of 60 µm and 250 µm on request.

### Media Compatibility
- Suitable for use with Mineral and Petroleum based hydraulic fluids (HL and HLP).

### Materials
- Threaded end cap made of glass-fibre reinforced Polyamide (PA); see page 51 for version with Aluminum end cap.

### Options
- Integrated bypass valve with an opening pressure of 0.2 bar (3PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids.

### Specializations
- Contact STAUFF for details.

### Contact STAUFF for alternative materials.

### Dimensions and Technical Data (Female BSP Threaded Version)

<table>
<thead>
<tr>
<th>Group Size</th>
<th>Thread T</th>
<th>Dimensions (mm/in)</th>
<th>Filter Surface</th>
<th>Max. Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>040-G08-075</td>
<td>G3/8 BSP</td>
<td>ØD1 38.5/3.85 ØD2 76 L 22</td>
<td>ØD1 278 cm² 12 l/min</td>
<td></td>
</tr>
<tr>
<td>050-G06-067</td>
<td>G3/8 BSP</td>
<td>ØD1 50 ØD2 67 L 26</td>
<td>ØD1 296 cm² 12 l/min</td>
<td></td>
</tr>
<tr>
<td>050-G08-105</td>
<td>G1/2 BSP</td>
<td>ØD1 50 ØD2 105 L 26</td>
<td>ØD1 518 cm² 15 l/min</td>
<td></td>
</tr>
<tr>
<td>068-G12-105</td>
<td>G3/4 BSP</td>
<td>ØD1 68 ØD2 105 L 34</td>
<td>ØD1 676 cm² 25 l/min</td>
<td></td>
</tr>
<tr>
<td>068-G16-140</td>
<td>G1 BSP</td>
<td>ØD1 68 ØD2 140 L 42</td>
<td>ØD1 930 cm² 50 l/min</td>
<td></td>
</tr>
<tr>
<td>068-G20-140</td>
<td>G1-1/4 BSP</td>
<td>ØD1 88 ØD2 140 L 56</td>
<td>ØD1 1172 cm² 65 l/min</td>
<td></td>
</tr>
<tr>
<td>068-G24-140</td>
<td>G1-1/2 BSP</td>
<td>ØD1 88 ØD2 140 L 60</td>
<td>ØD1 1172 cm² 140 l/min</td>
<td></td>
</tr>
<tr>
<td>102-G24-200</td>
<td>G1-1/2 BSP</td>
<td>ØD1 102 ØD2 200 L 22</td>
<td>ØD1 2427 cm² 230 l/min</td>
<td></td>
</tr>
<tr>
<td>102-G32-200</td>
<td>G2 BSP</td>
<td>ØD1 102 ØD2 200 L 22</td>
<td>ØD1 2427 cm² 230 l/min</td>
<td></td>
</tr>
<tr>
<td>102-G32-225</td>
<td>G2 BSP</td>
<td>ØD1 102 ØD2 225 L 22</td>
<td>ØD1 2811 cm² 230 l/min</td>
<td></td>
</tr>
<tr>
<td>102-G32-260</td>
<td>G2 BSP</td>
<td>ØD1 102 ØD2 260 L 22</td>
<td>ØD1 3249 cm² 230 l/min</td>
<td></td>
</tr>
<tr>
<td>131-G40-191</td>
<td>G1-1/2 BSP</td>
<td>ØD1 131 ØD2 191 L 86</td>
<td>ØD1 2430 cm² 340 l/min</td>
<td></td>
</tr>
<tr>
<td>131-G40-212</td>
<td>G2-1/2 BSP</td>
<td>ØD1 131 ØD2 212 L 86</td>
<td>ØD1 2748 cm² 340 l/min</td>
<td></td>
</tr>
<tr>
<td>131-G48-272</td>
<td>G3 BSP</td>
<td>ØD1 131 ØD2 272 L 96</td>
<td>ØD1 3626 cm² 400 l/min</td>
<td></td>
</tr>
<tr>
<td>150-G32-151</td>
<td>G2 BSP</td>
<td>ØD1 150 ØD2 151 L 70</td>
<td>ØD1 1812 cm² 400 l/min</td>
<td></td>
</tr>
</tbody>
</table>

### Flow Characteristics

#### Nominal Flow Rate vs. Pressure Drop (ΔP)
- The following characteristics are valid for Mineral oils with a mass density of 0.85 kg/dm³ and a kinematic viscosity of 30 mm²/s (cSt) at +38°C / +100°F.

#### Dimensions and Technical Data (Female NPT Threaded Version)

<table>
<thead>
<tr>
<th>Group Size</th>
<th>Thread T</th>
<th>Dimensions (mm/in)</th>
<th>Filter Surface</th>
<th>Max. Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>050-N06-067</td>
<td>3/8 NPT</td>
<td>ØD1 50 ØD2 67 L 26</td>
<td>ØD1 296 cm² 12 l/min</td>
<td></td>
</tr>
<tr>
<td>050-N06-090</td>
<td>3/8 NPT</td>
<td>ØD1 50 ØD2 90 L 26</td>
<td>ØD1 430 cm² 12 l/min</td>
<td></td>
</tr>
<tr>
<td>050-N08-105</td>
<td>1/2 NPT</td>
<td>ØD1 50 ØD2 105 L 26</td>
<td>ØD1 518 cm² 15 l/min</td>
<td></td>
</tr>
<tr>
<td>068-N12-105</td>
<td>3/4 NPT</td>
<td>ØD1 68 ØD2 105 L 34</td>
<td>ØD1 676 cm² 25 l/min</td>
<td></td>
</tr>
<tr>
<td>068-N16-140</td>
<td>1 NPT</td>
<td>ØD1 68 ØD2 140 L 42</td>
<td>ØD1 930 cm² 50 l/min</td>
<td></td>
</tr>
<tr>
<td>068-N20-140</td>
<td>1-1/4 NPT</td>
<td>ØD1 88 ØD2 140 L 56</td>
<td>ØD1 1172 cm² 65 l/min</td>
<td></td>
</tr>
<tr>
<td>068-N22-226</td>
<td>1-1/2 NPT</td>
<td>ØD1 88 ØD2 226 L 60</td>
<td>ØD1 1727 cm² 140 l/min</td>
<td></td>
</tr>
<tr>
<td>068-N22-260</td>
<td>1-1/2 NPT</td>
<td>ØD1 88 ØD2 260 L 60</td>
<td>ØD1 2344 cm² 140 l/min</td>
<td></td>
</tr>
<tr>
<td>102-N24-200</td>
<td>1-1/2 NPT</td>
<td>ØD1 102 ØD2 200 L 72</td>
<td>ØD1 2427 cm² 230 l/min</td>
<td></td>
</tr>
<tr>
<td>102-N32-260</td>
<td>2 NPT</td>
<td>ØD1 102 ØD2 260 L 72</td>
<td>ØD1 3249 cm² 230 l/min</td>
<td></td>
</tr>
<tr>
<td>131-N40-212</td>
<td>2-1/2 NPT</td>
<td>ØD1 131 ØD2 212 L 86</td>
<td>ØD1 2748 cm² 340 l/min</td>
<td></td>
</tr>
<tr>
<td>131-N48-272</td>
<td>3 NPT</td>
<td>ØD1 131 ØD2 272 L 96</td>
<td>ØD1 3626 cm² 400 l/min</td>
<td></td>
</tr>
</tbody>
</table>

### Group Size
- Contact STAUFF for alternative materials.
Characteristics

Designed as in-tank suction strainer elements for direct installation into suction lines of pumps; should always be installed below the minimum fluid level of the reservoir.

Features

- Available with female NPT thread (ANSI B1.20.1)
- Operating temperature range: -20 °C ... +100 °C / -4 °F ... +212 °F

Media Compatibility

- Suitable for use with Mineral and Petroleum based hydraulic fluids (HL and HLP)

Materials

- Threaded end cap made of Aluminium; see page 50 for version with Polyamide (PA) end cap
- Lower end cap and support tube made of Steel, zinc-plated
- Filter material made of Stainless Steel Mesh (125 μm); alternative micron ratings of 60 μm and 250 μm on request
- Contact STAUFF for alternative materials.

Options

- Integrated bypass valve with an opening pressure of 0.2 bar (3 PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids
- Special sizes, designs, materials and configurations are available on request.
- Contact STAUFF for details.

Dimensions and Technical Data (Female NPT Threaded Version)

<table>
<thead>
<tr>
<th>Group Size</th>
<th>Thread T</th>
<th>Dimensions (mm)</th>
<th>Filter Material / Micron Rating</th>
<th>Max. Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ØD1 ØD2 L</td>
<td>ØD1 ØD2</td>
<td>Filter Surface</td>
<td>Micron Rating</td>
<td>Flow Rate</td>
</tr>
<tr>
<td>050-N06-067</td>
<td>3/8 NPT</td>
<td>50  49  67  67  26  196 cm²  12 l/min</td>
<td>Stainless Steel Mesh, 125 μm</td>
<td>SUS</td>
</tr>
<tr>
<td>050-N06-090</td>
<td>3/8 NPT</td>
<td>50  49  90  90  26  430 cm²  12 l/min</td>
<td>Stainless Steel Mesh, 60 μm</td>
<td>SUS</td>
</tr>
<tr>
<td>050-N08-105</td>
<td>1/2 NPT</td>
<td>50  49  105  105  26  518 cm²  15 l/min</td>
<td>Stainless Steel Mesh, 250 μm</td>
<td>SUS</td>
</tr>
<tr>
<td>068-N12-105</td>
<td>3/4 NPT</td>
<td>68  66  105  105  34  676 cm²  25 l/min</td>
<td>Stainless Steel Mesh, 125 μm</td>
<td>SUS</td>
</tr>
<tr>
<td>068-N16-140</td>
<td>1 NPT</td>
<td>68  66  140  140  42  930 cm²  50 l/min</td>
<td>Stainless Steel Mesh, 60 μm</td>
<td>SUS</td>
</tr>
<tr>
<td>088-N20-140</td>
<td>1-1/4 NPT</td>
<td>88  85  195  195  60  1709 cm²  65 l/min</td>
<td>Stainless Steel Mesh, 250 μm</td>
<td>SUS</td>
</tr>
<tr>
<td>088-N20-195</td>
<td>1-1/4 NPT</td>
<td>88  85  140  140  60  1172 cm²  65 l/min</td>
<td>Stainless Steel Mesh, 125 μm</td>
<td>SUS</td>
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<tr>
<td>088-N24-140</td>
<td>1-1/2 NPT</td>
<td>88  85  226  226  60  2102 cm²  140 l/min</td>
<td>Stainless Steel Mesh, 60 μm</td>
<td>SUS</td>
</tr>
<tr>
<td>088-N24-226</td>
<td>1-1/2 NPT</td>
<td>88  85  226  226  60  2102 cm²  140 l/min</td>
<td>Stainless Steel Mesh, 250 μm</td>
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<tr>
<td>088-N24-260</td>
<td>1-1/2 NPT</td>
<td>88  85  260  260  60  2344 cm²  140 l/min</td>
<td>Stainless Steel Mesh, 125 μm</td>
<td>SUS</td>
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<tr>
<td>088-N24-260</td>
<td>2 NPT</td>
<td>88  85  260  260  70  234 cm²  230 l/min</td>
<td>Glass-fibre reinforced Polyamide</td>
<td>SUS</td>
</tr>
<tr>
<td>150-N40-213</td>
<td>2-1/2 NPT</td>
<td>150 145 253 253 90  274 cm²  340 l/min</td>
<td>Aluminium (for female NPT threaded version only)</td>
<td>SUS</td>
</tr>
<tr>
<td>150-N48-272</td>
<td>3 NPT</td>
<td>150 145 272 272 100  362 cm²  400 l/min</td>
<td>Glass-fibre reinforced Polyamide</td>
<td>SUS</td>
</tr>
</tbody>
</table>

Order Codes

**SUS - 088-G24-140 - 125 - P - O**

1. Type
   - Suction Strainer for direct installation into suction lines of pumps

2. Group Size
   - Select 'Group Size' from corresponding column in dimensional tables
   - The group size is defined by the diameter ØD1 of the threaded end cap, the thread code (type and size) and the total length of the suction strainer element (e.g. 040-B06F-075).

3. Filter Material / Micron Rating
   - Stainless Steel Mesh, 125 μm (standard option)
   - Stainless Steel Mesh, 60 μm
   - Stainless Steel Mesh, 250 μm

4. Material of Threaded End Cap
   - Glass-fibre reinforced Polyamide
   - Aluminium (for female NPT threaded version only)

5. Bypass Option
   - Without bypass valve (standard option)
   - Integrated bypass valve with opening pressure of 0.2 bar (3 PSI)

Contact STAUFF for alternative materials and micron ratings.
<table>
<thead>
<tr>
<th>Diffusers</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRV (Female BSP Threaded Version)</td>
</tr>
<tr>
<td>SRV (Female NPT Threaded Version)</td>
</tr>
</tbody>
</table>
**Diffusers SRV**

**(Female BSP Threaded Version)**

**Characteristics**
- Designed for direct installation into return lines to reduce fluid aeration, foaming and noise; should always be installed below the minimum fluid level.
- Features:
  - Available with female BSP thread (ISO 228)
  - Operating temperature range: -20 °C ... +100 °C / -4 °F ... +212 °F
  - Max. working pressure: 20 bar / 290 PSI
- Media Compatibility:
  - Suitable for use with Mineral and Petroleum based hydraulic fluids (HL and HLP)
- Construction and Materials:
  - 2 concentric tubes with inner spaced holes
  - Threaded end cap made of Aluminium
  - Other components made of Steel, zinc-plated
- Special sizes, designs, materials and configurations are available on request. Contact STAUFF for details.

**Dimensions and Order Codes (Female BSP Threaded Version)**

<table>
<thead>
<tr>
<th>Thread T</th>
<th>Dimensions (mm)</th>
<th>Max. Flow Rate</th>
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<tbody>
<tr>
<td>ØD1</td>
<td>ØD2</td>
<td>l/min</td>
</tr>
<tr>
<td>G3/4</td>
<td>64</td>
<td>2.52</td>
</tr>
<tr>
<td>G1</td>
<td>64</td>
<td>2.52</td>
</tr>
<tr>
<td>G1-1/4</td>
<td>86</td>
<td>3.39</td>
</tr>
<tr>
<td>G1-1/2</td>
<td>86</td>
<td>3.39</td>
</tr>
<tr>
<td>G2</td>
<td>86</td>
<td>3.99</td>
</tr>
<tr>
<td>G2-1/2</td>
<td>150</td>
<td>5.91</td>
</tr>
<tr>
<td>G3</td>
<td>150</td>
<td>5.91</td>
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<table>
<thead>
<tr>
<th>Connection Thread (Female)</th>
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<tr>
<td>G3/4</td>
</tr>
<tr>
<td>G1</td>
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<td>G1-1/4</td>
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<tr>
<td>G2</td>
</tr>
<tr>
<td>G2-1/2</td>
</tr>
<tr>
<td>G3</td>
</tr>
</tbody>
</table>

**Diffusers SRV are ideally suited for use with STAUFF Return Line Filters of the RF series with threaded connection.**

For details, please see Catalogue 9 - STAUFF Filtration Technology.
Diffusers SRV are ideally suited for use with STAUFF Return Line Filters of the RF series with threaded connection. For details, please see Catalogue 9 -STAUFF Filtration Technology.
## Product-Specific Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Product Category</th>
<th>Product Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP</td>
<td>Giant and Desiccant Air Breathers</td>
<td>Adaptor Plate</td>
<td>47</td>
</tr>
<tr>
<td>ASMB-1</td>
<td>Tank Filler Breathers</td>
<td>Side Mount Bracket (Polyamide Version)</td>
<td>38</td>
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<tr>
<td>ASMB-2</td>
<td>Tank Filler Breathers</td>
<td>Side Mount Bracket (Aluminium Version)</td>
<td>38</td>
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<td>DT04-4P</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Deutsch Adaptor Cable</td>
<td>20</td>
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<tr>
<td>EBF</td>
<td>Tank Filler Breathers</td>
<td>Extended Bayonet Flange</td>
<td>39</td>
</tr>
<tr>
<td>FM</td>
<td>Giant and Desiccant Air Breathers</td>
<td>Visual Contamination Indicator</td>
<td>47</td>
</tr>
<tr>
<td>SDB</td>
<td>Giant and Desiccant Air Breathers</td>
<td>Desiccant Air Breathers</td>
<td>44</td>
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<tr>
<td>SDB-CV</td>
<td>Giant and Desiccant Air Breathers</td>
<td>Desiccant Air Breathers (with Check Valves)</td>
<td>46</td>
</tr>
<tr>
<td>SDV-SNA / SNK</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Anti-Drain Valve</td>
<td>20</td>
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<tr>
<td>SES</td>
<td>Tank Filler Breathers</td>
<td>Plastic Filler Breather (Threaded Version)</td>
<td>31</td>
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<tr>
<td>SES</td>
<td>Tank Filler Breathers</td>
<td>Plastic Filler Breather (Welded Version)</td>
<td>31</td>
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<tr>
<td>SGB</td>
<td>Giant and Desiccant Air Breathers</td>
<td>Giant Air Breather</td>
<td>42</td>
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<td>SLTS</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Level-Temperature Switch</td>
<td>21</td>
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<td>SMBB-47</td>
<td>Tank Filler Breathers</td>
<td>Metal Filler Breather (Bayonet Version)</td>
<td>33</td>
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<tr>
<td>SMBB-80</td>
<td>Tank Filler Breathers</td>
<td>Metal Filler Breather (Bayonet Version)</td>
<td>35</td>
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<tr>
<td>SMBL</td>
<td>Tank Filler Breathers</td>
<td>Lockable Metal Filler Breather (Clamping, Threaded and Push-On Version)</td>
<td>37</td>
</tr>
<tr>
<td>SMBP-40</td>
<td>Tank Filler Breathers</td>
<td>Metal Filler Breather (Push-On Version)</td>
<td>36</td>
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<tr>
<td>SMBT-47</td>
<td>Tank Filler Breathers</td>
<td>Metal Filler Breather (Threaded Version)</td>
<td>32</td>
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<td>SMBT-80</td>
<td>Tank Filler Breathers</td>
<td>Metal Filler Breather (Threaded Version)</td>
<td>34</td>
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<td>SNA</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Level Gauge</td>
<td>14</td>
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<td>SNK</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Level Gauge</td>
<td>16</td>
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<td>SNKK</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Level Gauge</td>
<td>17</td>
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<td>SPB-1 / 2 / 3</td>
<td>Tank Filler Breathers</td>
<td>Plastic Filler Breather (Threaded Version)</td>
<td>24</td>
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<tr>
<td>SPB-4 / 5</td>
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<td>Plastic Filler Breather (Flange Version)</td>
<td>25</td>
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<td>SPBM</td>
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<td>Plastic Filler Breather Mini (Threaded Version)</td>
<td>30</td>
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<td>SPBN</td>
<td>Tank Filler Breathers</td>
<td>Plastic Filler Breather (Compact Design; Threaded Version)</td>
<td>28</td>
</tr>
<tr>
<td>SRV</td>
<td>Diffusers</td>
<td>Diffusers (Female BSP Threaded Version)</td>
<td>54</td>
</tr>
<tr>
<td>SRV</td>
<td>Diffusers</td>
<td>Diffusers (Female NPT Threaded Version)</td>
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<td>SUS</td>
<td>Suction Strainers</td>
<td>Suction Strainers</td>
<td>50</td>
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<td>SUS</td>
<td>Suction Strainers</td>
<td>Suction Strainers (Polyamide End Cap)</td>
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<td>SVDDB</td>
<td>Giant and Desiccant Air Breathers</td>
<td>Desiccant Air Breathers (Disposable Version)</td>
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<tr>
<td>T1 / T2</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Dial Thermometer with Probe</td>
<td>18</td>
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<tr>
<td>TBA</td>
<td>Giant and Desiccant Air Breathers</td>
<td>Air Breather Adaptor</td>
<td>43</td>
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<td>TBA-OD</td>
<td>Giant and Desiccant Air Breathers</td>
<td>Oil Demister</td>
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<td>TS</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Thermo Switch</td>
<td>18</td>
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<tr>
<td>TS-SNA / SNK-PT100</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Temperature Sensor</td>
<td>19</td>
</tr>
<tr>
<td>TS-SNA / SNK-PT100-T</td>
<td>Fluid Level and Temperature Indicators</td>
<td>Temperature Sensor with Direct Installation Set</td>
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<tr>
<td>WR</td>
<td>Tank Filler Breathers</td>
<td>Weld Riser</td>
<td>39</td>
</tr>
</tbody>
</table>
Global Contact Directory

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

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Appendix

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www.stauff.com/10/en/#63
Catalogue 10 • Edition 08/2019
63
Catalogue 10
STAUFF Hydraulic Accessories

Fluid Level and Temperature Indicators
Tank Filler Breathers
Giant and Desiccant Air Breathers
Section Strainers
Diffusors
Appendix

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