



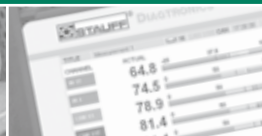
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FILTRATION



DIAGTRONICS



ACCESSORIES



VALVES



FLANGES



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Home

Indicators - Level/Temp

Tank Filler Breathers

Giant Air Breathers

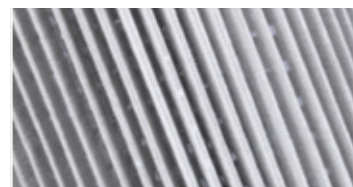
Desiccant Air Breathers

Breather Adaptors

Accessories

Pipe & Tube Cleaning

Accessories



The STAUFF Hydraulic Accessories programme has been carefully designed to offer a complete range of sophisticated components suited to the demands of building hydraulic reservoirs and power units in most industrial and mobile applications.

Whether you require a solution for a most precise visual or electrical fluid level and temperature indication, a reliable tank filling and breathing product that can even absorb moisture from your hydraulic system, or equipment to connect the suction and return line of your hydraulic circuit with the reservoir: The STAUFF Hydraulic Accessories programme will provide you with the choice you need.

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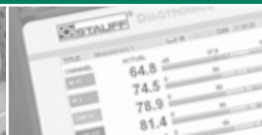
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[Plastic Filler Breather \(Compact Design; Screw-In Version\) SPBN](#)

[Plastic Filler Breather \(Compact Design; Bayonet Version\) SPBN](#)

[Accessories / Options \(Dipsticks / Baskets / Pressurization\) Pressure Drop Flow Curves](#)

[Metal Filler Breather \(Screw-In Version\) SMBT-47](#)

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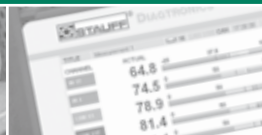
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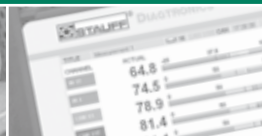
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Return Line

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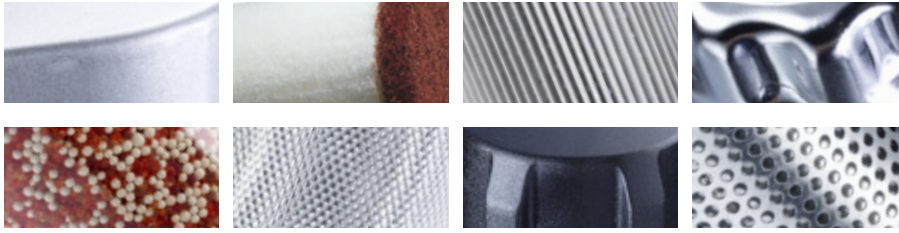
[Return Line Bushing SRF](#)

[Reservoir End Cover](#)

[Motor Pump Adaptors](#)

[Foot Mount Brackets for Hydraulic Pumps FM](#)





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Whether you require a solution for a most precise visual or electrical fluid level and temperature indication, a reliable tank filling and breathing product that can even absorb moisture from your hydraulic system, or equipment to connect the suction and return line of your hydraulic circuit with the reservoir: The STAUFF Hydraulic Accessories programme will provide you with the choice you need.

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E

Hydraulic Accessories



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Fluid Level / Temperature Indicators






Tank Filler Breathers

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Giant Air Breathers

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Desiccant Air Breathers

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Breather Adaptors

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	Threaded Breather Adaptor (Aluminium Version)	DBA-75	E35
	Bayonet Breather Adaptor (Aluminium Version)	BA-1	E36
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Suction Line Accessories

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Return Line Accessories

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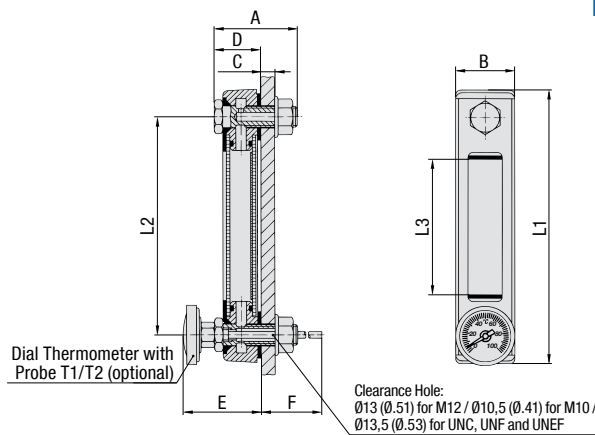
Other Reservoir Accessories

	Reservoir End Cover	EC	E48
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	Foot Mount Brackets for Hydraulic Pumps		E53

STAUFF Clean

	Pipe, Tube and Hose Cleaning System		E54
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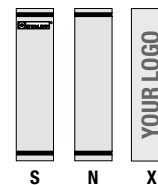
Level Gauge ■ Type SNA



Design of Scale Plates

Thermometer Options

Capillary Tube Thermometer
with a dual Celsius / Fahrenheit
scale up to +80 °C / +180 °F



Characteristics

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

Nominal Sizes and Designs

- 6 nominal sizes from 76 mm / 2.99 in to 305 mm / 12.00 in
- Display either undivided (SNA 076 ... 176) or subdivided by strut(s) into 2 (SNA 254) or 3 sections (SNA 305)

Please see page E5 for alternative nominal sizes and designs.

Media Compatibility

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

Materials

- Housing made of Steel St 12, black epoxy-coated
- Sight tube and plugs made of Polyamide (PA)
- Sealings made of NBR (Buna-N®)
- Scale plate made of PVC

Special sight tube materials for improved UV or chemical resistance and use with special media (such as bio-degradable fluids, diesel oils, gasolines, etc.) as well as special sealing materials, e.g. FPM (Viton®), and scale plate materials, e.g. Aluminium, are available on request.

Please see page E5 for alternative housing materials.

Technical Data

- IP 65 protection rating: Dust tight and protected against water jets (IP 67 on request)
- Operating temperature range:
-30 °C ... +80 °C / -22 °F ... +176 °F
- Recommended tightening torque: 8 N·m / 5.9 ft·lb

Accessories / Options

- Red / blue capillary tube thermometers with a dual Celsius / Fahrenheit scale and a temperature display range of up to +80 °C / +180 °F
- Dial thermometers with probe and a Celsius or a dual Celsius / Fahrenheit scale with a temperature display range of up to +100 °C / +212 °F
- Thermo Switches
- Temperature Sensors

Please see pages E8 and E9 for details.

Dimensions

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.

Nominal Size	Dimensions (mm/in)			D	E	F (with T1)	F (with T2)	L1	L2	L3
	A	B	C (Max.)							
SNA 076	45	34,5	8	27	43,5	165,5	265,5	108	76	31
	1.77	1.36	.32	1.06	1.71	6.52	10.45	4.25	2.99	1.22
SNA 127	45	34,5	8	27	43,5	165,5	265,5	159	127	76
	1.77	1.36	.32	1.06	1.71	6.52	10.45	6.26	5.00	2.99
SNA 150	45	34,5	8	27	43,5	165,5	265,5	182	150	99
	1.77	1.36	.32	1.06	1.71	6.52	10.45	7.17	5.91	3.90
SNA 176	45	34,5	8	27	43,5	165,5	265,5	208	176	124
	1.77	1.36	.32	1.06	1.71	6.52	10.45	8.19	6.93	4.88
SNA 254	45	34,5	8	27	43,5	165,5	265,5	285	254	192
	1.77	1.36	.32	1.06	1.71	6.52	10.45	11.22	10.00	7.56
SNA 305	45	34,5	8	27	43,5	165,5	265,5	336	305	244
	1.77	1.36	.32	1.06	1.71	6.52	10.45	13.23	12.00	9.61

Order Codes

SNA	127	B	-	S	-	0	-	12	-	0	-	60
①	②	③		④		⑤		⑥		⑦		⑧

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

Please see page E5 for alternative nominal sizes.

③ Sealing Material

NBR (Buna-N®) (standard option)	B
FPM (Viton®)	V

④ Design of Scale Plate

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

⑤ Thermometer Option

Supplied without thermometer	0
Red Capillary Tube thermometer on scale plate	T
Blue Capillary Tube thermometer on scale plate	TB
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 / 212 °F	T1CF
Dial thermometer with probe (300 mm / 11.81 in) and a dual scale up to 100 °C / 212 °F	T2CF

⑥ Banjo Bolt Size

Metric ISO thread M12 (standard option)	12
Metric ISO thread M10	10
Unified coarse thread 1/2–13 UNC	U1
Unified fine thread 1/2–20 UNF (special option)	U2
Unified extra-fine thread 1/2–28 UNEF (special option)	U3

⑦ Thermo Switch / Temperature Sensor Option

Supplied without Thermo Switch / Temperature Sensor	-
Thermo Switch TS-SNA/SNK; Break contact (normally closed); Equipped with standard connector	0
Thermo Switch TS-SNA/SNK; Break contact (normally closed); Equipped with connector M12	0D
Thermo Switch TS-SNA/SNK; Make contact (normally open); Equipped with standard connector	C
Thermo Switch TS-SNA/SNK; Make contact (normally open); Equipped with connector M12	CD
Temperature Sensor TS-SNA/SNK-PT100; Equipped with connector M12	PT100

Thermo Switches / Temperature Sensors only available for banjo bolt size M12. Please see pages E8 and E9 for details.

⑧ Switching Temperature

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

Only to be indicated when using a Thermo Switch.

Options T1C/T1CF and T2C/T2 CF are not available for banjo bolt size M10 and not be used in conjunction with Thermo Switches or Temperature Sensors. Please see page E8 for details.

Characteristics

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

- Housing made of Steel, Aluminium or Stainless Steel
- Sight tube and plugs made of Polyamide (PA)
- Sealings made of NBR (Buna-N®)
- Scale plate made of PVC
- Floating element made of Polyamide (PA)

Special sight tube materials for improved UV or chemical resistance and use with special media (such as bio-degradable fluids, diesel oils, gasolines, etc.) as well as special sealing materials, e.g. FPM (Viton®), and scale plate materials, e.g. Aluminium, are available on request.

Please also ask for our special low-temperature versions, suitable for extreme temperatures up to -40 °C / -40 °F.

Accessories / Options

- Capillary tube thermometers with a dual Celsius / Fahrenheit scale and a temperature display range of up to +80 °C / +180 °F
- Dial thermometers with probe and a Celsius or a dual Celsius / Fahrenheit scale with a temperature display range of up to +100 °C / +212 °F
- Thermo switches
- Temperature sensors

Please see pages E8 and E9 for details.

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

 Bolt centre distance (in mm)

Housing Material

☐ Aluminium ☐ Steel ☐ Stainless Steel

Housing Design

☐ Regular housing design with positioning of strut(s) based on engineering considerations

Please provide additional details / drawing for custom housing designs.

Banjo Bolt Size

☐ M12 ☐ M10 ☐ 1/2–13 UNC
☐ 1/2–20 UNF ☐ 1/2–28 UNEF

Banjo Bolt Material

☐ Steel ☐ Stainless Steel

Sealing Material

☐ NBR (Buna-N®) ☐ FPM (Viton®) ☐ EPDM

Alternative sealing materials to be defined separately.

Level Indication

- ☐ Scale plate (only for nominal sizes smaller than 670 mm / 26.4 in)
- ☐ Scale plate made of PVC ☐ With STAUFF logo
- ☐ Scale plate made of Aluminium ☐ Neutral design without any logo
- ☐ Without thermometer on scale plate ☐ Custom-design (please specify)
- ☐ Capillary tube thermometer with dual Celsius / Fahrenheit scale up to +80 °C / +180 °F
- ☐ Floating element (recommended option for nominal sizes larger than 670 mm / 26.4 in)

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

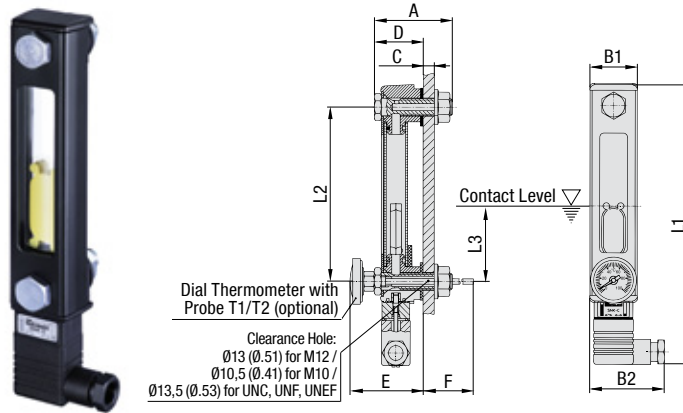
Options

- ☐ Dial thermometer with probe
- ☐ Celsius scale up to +100 °C ☐ Length of probe: 200 mm / 7.87 in
- ☐ Dual scale up to +100 °C / +212 °F ☐ Length of probe: 300 mm / 11.81 in
- ☐ Thermo Switch TS-SNA/SNK
- ☐ Break contact; Standard connector ☐ Contact switches at +60 °C / +140 °F
- ☐ Break contact; Connector M12 ☐ Contact switches at +70 °C / +158 °F
- ☐ Make contact; Standard connector ☐ Contact switches at +80 °C / +176 °F
- ☐ Make contact; Connector M12 ☐ Contact switches at +90 °C / +194 °F
- ☐ Temperature Sensor TS-SNA/SNK-PT100

Level Gauge (Special Options) ▪ Type SNA

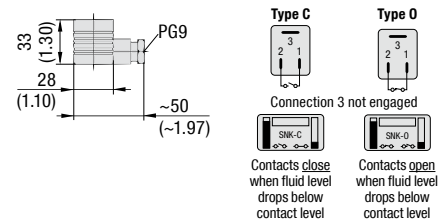


Level Gauge - Type SNK

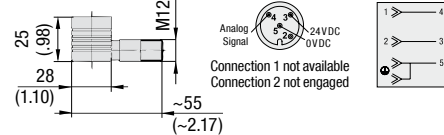


Connection Details and Electrical Functions

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 61076-2-101



Characteristics

Visual / electrical fluid level indication in hydraulic reservoirs with maximum tank pressures not exceeding 1 bar / 14.5PSI

Nominal Sizes and Designs

- 5 nominal sizes from 127 mm / 5.00 in to 305 mm / 12.00 in
- Display either undivided (SNK 127 ... 176) or subdivided by strut(s) into 2 (SNK 254) or 3 sections (SNK 305)

Media Compatibility

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

Materials

- Housing made of Aluminium, plastic coated
- Sight tube and plugs made of Polyamide (PA)
- Float made of Polyamide (PA)
- Sealings made of FPM (Viton®)

Special sight tube materials for improved UV or chemical resistance and use with special media (such as bio-degradable fluids, diesel oils, gasolines, etc.) as well as special sealing materials 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. 10W (types C / CD) or 5W (types O / OD)
- Switching voltage: 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 ... +80 °C / -22 °F ... +176 °F
- Recommended tightening torque: 8 N·m / 5.9 ft·lb
- Minimum lateral 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 / +212 °F
- Thermo Switches
- Temperature Sensors

Please see pages E8 and E9 for details.

Dimensions

Table shows dimension L1 for the version with industrial standard connector (types C and O) only. Maximum admissible tolerance for the bolt center spacing (dimension L2) according to DIN ISO 2768-F: ±0,20mm / .008in for all nominal sizes.

Nominal Size	Dimensions (mm / in)										
	A	B1	B2	C (Max.)	D	E	F (with T1)	F (with T2)	L1	L2	L3
SNK 127	56	34,5	~50	8	35,1	51,5	157,5	257,5	205	127	~60
	2.20	1.36	~1.97	.32	1.26	2.03	6.20	10.14	8.07	5.00	~2.36
SNK 150	56	34,5	~50	8	35,1	51,5	157,5	257,5	228	150	~60
	2.20	1.36	~1.97	.32	1.26	2.03	6.20	10.14	8.98	5.91	~2.36
SNK 176	56	34,5	~50	8	35,1	51,5	157,5	257,5	254	176	~60
	2.20	1.36	~1.97	.32	1.26	2.03	6.20	10.14	10.00	6.93	~2.36
SNK 254	56	34,5	~50	8	35,1	51,5	157,5	257,5	332	254	~60
	2.20	1.36	~1.97	.32	1.26	2.03	6.20	10.14	13.07	10.00	~2.36
SNK 305	56	34,5	~50	8	35,1	51,5	157,5	257,5	383	305	~60
	2.20	1.36	~1.97	.32	1.26	2.03	6.20	10.14	15.08	12.00	~2.36

Order Codes

SNK	127	V	-	C	-	O	-	12	-	O	-	60
①	②	③		④		⑤		⑥		⑦		⑧

① Type

Level Gauge with visual / electrical fluid level indication **SNK**

② Nominal Size

SNK 127 (nominal size of 127 mm / 5.00 in)	127
SNK 150 (nominal size of 150 mm / 5.91 in)	150
SNK 176 (nominal size of 176 mm / 6.93 in)	176
SNK 254 (nominal size of 254 mm / 10.00 in)	254
SNK 305 (nominal size of 305 mm / 12.00 in)	305

Consult STAUFF for alternative nominal sizes and designs.

③ Sealing Material

FPM (Viton®) **V**

④ Electrical Function

Break contact, opens at contact level (normally closed); Equipped with standard connector	O
Break contact, opens at contact level (normally closed); Equipped with connector M12	OD
Make contact, closes at contact level (normally open); Equipped with standard connector	C
Make contact, closes at contact level (normally open); Equipped with connector M12	CD

⑤ Thermometer Option

Supplied without thermometer	O
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 / 212 °F	T1CF
Dial thermometer with probe (300 mm / 11.81 in) and a dual scale up to 100 °C / 212 °F	T2CF

⑥ Banjo Bolt Size

Metric ISO thread M12 (standard option)	12
Metric ISO thread M10	10
Unified coarse thread 1/2-13 UNC	U1
Unified fine thread 1/2-20 UNF (special option)	U2
Unified extra-fine thread 1/2-28 UNEF (special option)	U3

⑦ Thermo Switch / Temperature Sensor Option

Supplied without Thermo Switch / Temperature Sensor - Thermo Switch TS-SNA/SNK; Break contact (normally closed); Equipped with standard connector	O
Thermo Switch TS-SNA/SNK; Break contact (normally closed); Equipped with connector M12	OD
Thermo Switch TS-SNA/SNK; Make contact (normally open); Equipped with standard connector	C
Thermo Switch TS-SNA/SNK; Make contact (normally open); Equipped with connector M12	CD
Temperature Sensor TS-SNA/SNK-PT100; Equipped with connector M12	PT100

Thermo Switches / Temperature Sensors only available for banjo bolt size M12. Please see pages E8 and E9 for details.

⑧ Switching Temperature

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

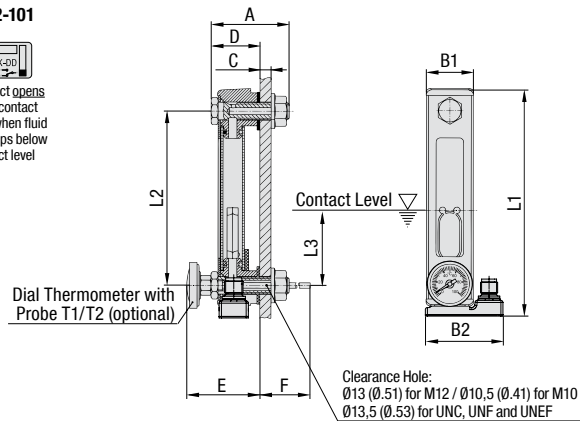
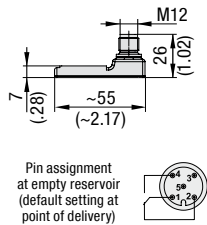
Only to be indicated when using a Thermo Switch.

Options T1C/CF and T2C/CF are not available for banjo bolt size M10 and not be used in conjunction with Thermo Switches or Temperature Sensors. Please see page E8 for details.

Dimensional drawings: All dimensions in mm (in).

Connection Details and Electrical Functions

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



Level Gauge (Compact Design) • Type SNKK

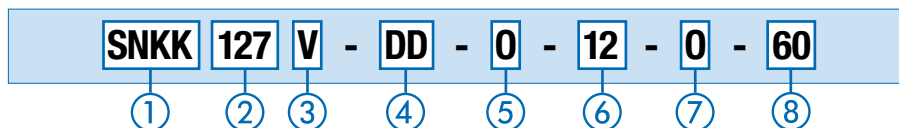


Dimensions

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

Nominal Size	Dimensions (mm/in)									
	A	B1	B2	C (Max.)	D	E	F (with T1)	F (with T2)	L1	L2
SNKK 127	56	34,5	~55	8	35,1	51,5	157,5	257,5	165	127
	2.20	1.36	~2.17	.32	1.26	2.03	6.20	10.14	6.50	5.00
SNKK 150	56	34,5	~50	8	35,1	51,5	157,5	257,5	188	150
	2.20	1.36	~1.97	.32	1.26	2.03	6.20	10.14	8.98	5.91
SNKK 176	56	34,5	~55	8	35,1	51,5	157,5	257,5	214	176
	2.20	1.36	~2.17	.32	1.26	2.03	6.20	10.14	8.43	6.93
SNKK 254	56	34,5	~55	8	35,1	51,5	157,5	257,5	292	254
	2.20	1.36	~2.17	.32	1.26	2.03	6.20	10.14	11.50	10.00
SNKK 305	56	34,5	~55	8	35,1	51,5	157,5	257,5	343	305
	2.20	1.36	~2.17	.32	1.26	2.03	6.20	10.14	13.50	12.00

Order Codes



① Type

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

② 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

Consult STAUFF for alternative nominal sizes and designs.

③ Sealing Material

FPM (Viton®) **V**

④ Electrical Function

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

⑤ Thermometer Option

Supplied without thermometer	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 / 212 °F	T1CF
Dial thermometer with probe (300 mm / 11.81 in) and a dual scale up to 100 °C / 212 °F	T2CF

⑥ Banjo Bolt Size

Metric ISO thread M12 (standard option)	12
Metric ISO thread M10	10
Unified coarse thread 1/2–13 UNC	U1
Unified fine thread 1/2–20 UNF (special option)	U2
Unified extra-fine thread 1/2–28 UNEF (special option)	U3

⑦ Thermo Switch / Temperature Sensor Option

Supplied without Thermo Switch / Temperature Sensor - Break Contact, opens at contact level (normally closed); Equipped with standard connector	0
Break Contact, opens at contact level (normally closed); Equipped with connector M12	0D
Make Contact, closes at contact level (normally open); Equipped with standard connector	C
Make Contact, closes at contact level (normally open); Equipped with connector M12	CD
Temperature Sensor TS-SNA/SNK-PT100; Equipped with connector M12	PT100

Thermo Switches / Temperature Sensors only available for banjo bolt size M12. Please see pages E8 and E9 for details.

⑧ Switching Temperature

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

Only to be indicated when using a Thermo Switch.

Options T1C/CF and T2C/CF are not available for banjo bolt size M10 and not be used in conjunction with Thermo Switches or Temperature Sensors. Please see page E8 for details.

Characteristics

Visual / electrical fluid level indication in hydraulic reservoirs with maximum tank pressures not exceeding 1 bar / 14.5PSI; ideal for applications in which space is limited

Nominal Sizes and Designs

- 5 nominal sizes from 127 mm / 5.00 in to 305 mm / 12.00 in
- Compact design allows space-saving installation: Always 40 mm / 1.57 in shorter than Level Gauges SNK of the comparable nominal size
- Display either undivided (SNKK 127 ... 176) or subdivided by strut(s) into 2 (SNKK 254) or 3 sections (SNKK 305)

Media Compatibility

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

Materials

- Housing made of Aluminium, plastic coated
- Sight tube and plugs made of Polyamide (PA)
- Float made of Polyamide (PA)
- Sealings made of FPM (Viton®)

Special sight tube materials for improved UV or chemical resistance and use with special media (such as bio-degradable fluids, diesel oils, gasolines, etc.) as well as special sealing materials 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 SPDT (Single Pole Double Throw) contact
- Equipped with five-pin circular connector M12
- Direction of the electrical contact box is right to top by default

Technical Data

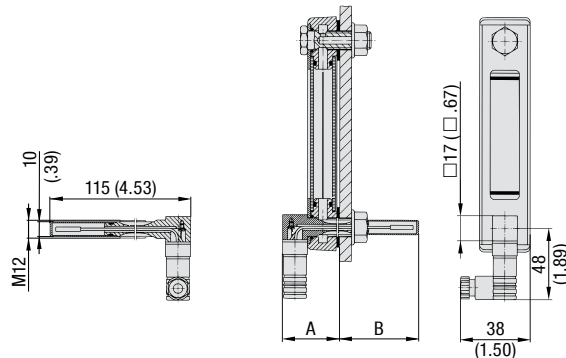
- IP 67 protection rating: Dust tight and protected against powerful water jets; even immersion (up to 1 m / 3.28 ft) in water is possible under defined conditions of pressure and time (IP 69K on request)
- Operating temperature range: -30 °C ... +80 °C / -22 °F ... +176 °F
- Recommended tightening torque: 8 N-m / 5.9 ft-lb
- Minimum lateral distance to other magnetic 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 / +212 °F
- Thermo Switches
- Temperature Sensors

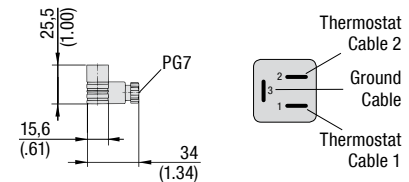
Please see pages E8 and E9 for details.

Thermo Switch - Type TS

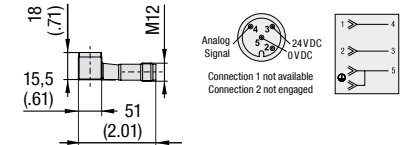


Connection Details and Electrical Functions

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



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 Steel (1.0718)
- 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

	Dimensions (mm/in)	
	A	B
In conjunction with Level Gauge SNA	39 1.54	76 2.99
In conjunction with Level Gauge SNK	47 1.85	68 2.68
In conjunction with Level Gauge SNKK	47 1.85	68 2.68

Electrical Specifications (Alternating Current)

- Maximum voltage: 250 V, 2,5 (1,6) A, 50 Hz
- Maximum current at 2000 operations:
4,0 A at $\cos \varphi = 4,45 / 250 \text{ V}, 135^\circ \text{C}$
- Maximum current at 10000 operations:
2,5 A at $\cos \varphi = 1,00 / 250 \text{ V}, 150^\circ \text{C}$
- Minimum current: 20 mA

Electrical Specifications (Direct Current)

- Maximum voltage: 42 V

Order Codes

TS - SNA/SNK - 0 - 60

①

②

③

① Type

Thermo Switch TS for use with Level Gauges SNA, SNK and SNKK

TS-SNA/SNK

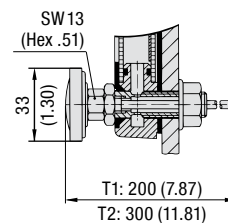
② Electrical Function

- Break contact, opens at switching temperature (normally closed); Equipped with standard connector **0**
- Break contact, opens at switching temperature (normally closed); Equipped with connector M12 **OD**
- Make contact, closes at switching temperature (normally open); Equipped with standard connector **C**
- Make contact, closes at switching temperature (normally open); Equipped with connector M12 **CD**

③ Switching Temperature

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

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 consult STAUFF for special versions.

Scale Options

- Celsius scale of 0 °C ... +100 °C (types T1C / T2C)
- Dual Celsius / Fahrenheit scale of up to +100 °C / +212 °F (types T1CF / T2CF)

Materials

- Probe made of Stainless Steel V4A (1.4571)

Technical Data

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

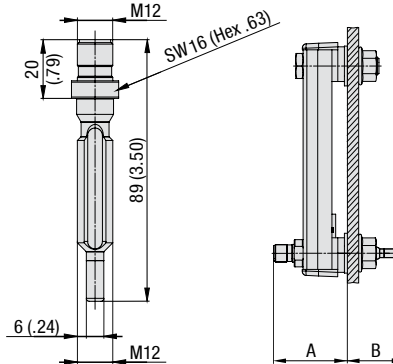
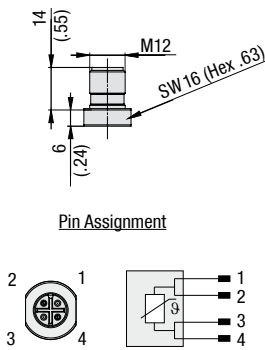
Installation

- 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 (SW13 / 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 E4 to E7 for details.

Connection Details and Electrical Functions

Four-pin circular connector M12,
A-coded, according to IEC 61076-2-101



Order Codes

TS-SNA/SNK-PT100

①

① Type

Temperature Sensor PT100 **TS-SNA/SNK-PT100**

Dimensions

	Dimensions (mm/in)	
	A	B
In conjunction with Level Gauge SNA	43,5 1.71	45,5 1.79
In conjunction with Level Gauge SNK	51 2.01	38 1.50
In conjunction with Level Gauge SNKK	51 2.01	38 1.50

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

Characteristics

Fluid temperature measurement in conjunction with STAUFF Level Gauges **SNA**, **SNK** and **SNKK**; Analysis of signals with **TS-SNA/SNK-PT100-D** Display / Evaluation Unit, **TS-SNA/SNK-PT100-C** Signal Converter or system-sided amplifier or transducer

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 (including all fluid-affected parts) made of Stainless Steel V2A (1.4305)

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: $\pm(0,15 \text{ K} + 0,002 \times |t|)$
- Max. contact current: 2,0 mA
- Equipped with four-pin circular connector M12 with gold-plated contacts

Order Codes

TS-SNA/SNK-PT100-T-B

①

②

③

① Type

Temperature Sensor PT100 **TS-SNA/SNK-PT100**

② Direct Adaptor

Direct installation set including M12 screw nut, gasket, front ring and O-ring

T

③ Sealing Material

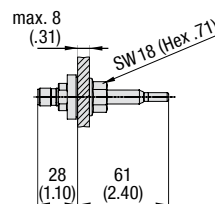
NBR (Buna-N®) (standard option) **B**
FPM (Viton®) **V**
EPDM **E**

The direct installation set can also be used in conjunction with Thermo Switches TS (see page E8). Please consult STAUFF for further information.

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), FPM (Viton®) or EPDM

Please see top of this page for Technical Details and Electrical Specifications for the Temperature Sensor.



Temperature Sensor with Direct Installation Set Type TS-SNA/SNK-PT100-T



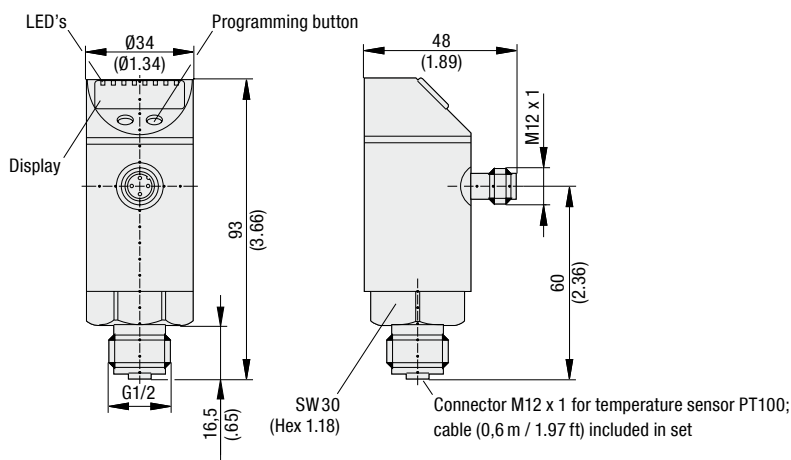
Characteristics

Direct fluid temperature measurement without STAUFF Level Gauges **SNA**, **SNK** and **SNKK**; Analysis of signals with **TS-SNA/SNK-PT100-D** Display / Evaluation Unit, **TS-SNA/SNK-PT100-C** Signal Converter or system-sided amplifier or transducer

Installation

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

Display / Evaluation Unit ■ Type TS-SNA/SNK-PT100-D



Characteristics

Mobile or stationary fluid temperature indication and evaluation in conjunction with STAUFF Temperature Sensor TS-SNA/SNK-PT100

Features

- Connection of temperature sensor as 4-wire sensor
- Display of the current system temperature in °C or °F with 4-digit alpha-numeric display
- Measuring temperature range: -40 °C ... +300 °C / -40 °F ... +572 °F (may be limited by connected sensor)
- Generation of 2 output signals according to parameter setting:
Switching output - normally open / closed (programmable)
Analog output - 4 ... 20 mA or 0 ... 10 V (scaleable)
- Provision of process data via IO-Link 1.0 (38.4 kBaud)
- Designed for bi-directional connection

Electrical Specifications

- Operating voltage: 18 ... 32 VDC
- Current rating: 250 mA
- Voltage drop: <2 mA
- Response time of switching output: 130 ms
- Analog output: 4 ... 20 mA or 0 ... 10 V (scaleable)
- Accuracy of switching output: $\pm 0,3\text{ °C} / \pm 0,54\text{ °F}$
- Accuracy of analog output: $\pm 0,3\text{ °C} / \pm 0,54\text{ °F}$
- Resolution of switching output: 0,1 °C / .18 °F
- Resolution of analog output: 0,1 °C / .18 °F
- Resolution of display: 0,1 °C / .18 °F
- Temperature coefficient (of the span per 10 K): 0,1 %
- Short-circuit protection (pulsed)
- Protection against reverse polarity and overload
- Equipped with four-pin circular connector M12 with gold-plated contacts

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
- Operating temperature range: -25 °C ... +70 °C / -13 °F ... +158 °F

Order Codes

SET-TS-SNA/SNK-PT100-D

①

① Type

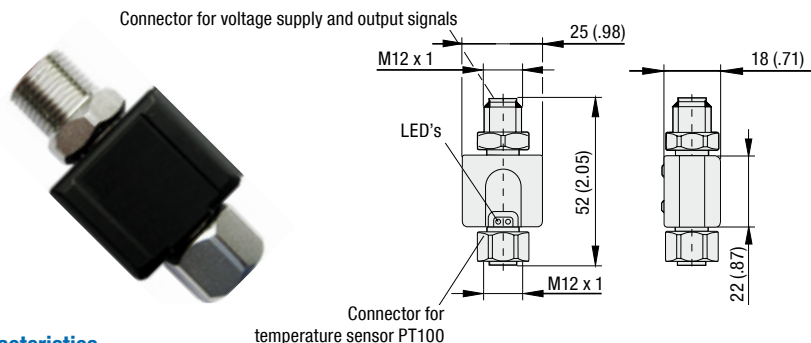
Complete set of Display / Evaluation Unit for use with Temperature Sensor
SET-TS-SNA/SNK-PT100-D
TS-SNA/SNK-PT100

Complete sets include the following components:

- Display / Evaluation Unit TS-SNA/SNK-PT100-D
- Cable with M12 plug / M12 socket (0,6 m / 1.97 ft)
- External power supply unit 100 ... 240 V AC (50 ... 60 Hz) / 200 mA
- User manual (CD-ROM)

All components included in the complete set are also available as single parts. Consult STAUFF for further information.

Signal Converter ■ Type TS-SNA/SNK-PT100-C



Characteristics

Signal converter for use with STAUFF Temperature Sensor TS-SNA/SNK-PT100

Features

- Converts the measured signal into a proportional analog signal: Analog output - 4 ... 20 mA (scaleable)
- Measuring temperature range (factory setting): -50 °C ... +150 °C / -58 °F ... +302 °F
- Provision of process data via IO-Link 1.0 (38.4 kBaud)
- Designed for bi-directional connection

Electrical Specifications

- Operating voltage: 20 ... 32 VDC
- Analog output: 4 ... 20 mA (scaleable)
- Maximum load: 300 Ω
- Rise time analog output: 400 ms
- Accuracy of analog output: $\pm 0,3\text{ °C} / \pm 0,54\text{ °F} + (\pm 0,1\text{ % of measuring span})$
- Resolution: $\leq 0,1\text{ °C} / \leq 0,18\text{ °F}$
- Temperature coefficient (of the span per 10 K): 0,1 %
- Short-circuit protection (pulsed)
- Protection against reverse polarity and overload

Order Codes

TS - SNA/SNK - PT100-C

①

① Type

Signal Converter for use with Temperature Sensor
TS-SNA/SNK-PT100-C
TS-SNA/SNK-PT100

Electrical Specifications (Continuation)

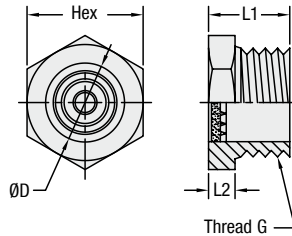
- Equipped with four-pin circular connector M12 with gold-plated contacts

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
- Operating temp. range: -25 °C ... +70 °C / -13 °F ... +158 °F

Dimensional drawings: All dimensions in mm (in).

Metal Sight Glasses - Type SLW



Dimensions

Order Code	Thread G	Dimensions (mm/in)				Max. Operating Pressure (bar/PSI)
		ØD	L1	L2	Hex	
SLW - 04	1/4-18 NPT	8,6 .34	16,0 .63	4,8 .19	16,0 .63	275 4000
SLW - 06	3/8-18 NPT	11,2 .44	18,3 .72	5,6 .32	19,1 .75	250 3700
SLW - 08	1/2-14 NPT	14,2 .56	19,8 .78	5,6 .32	23,9 .94	240 3500
SLW - 12	3/4-14 NPT	19,1 .75	23,9 .94	8,1 .32	26,9 1.06	200 3000
SLW - 16	1-11-1/2 NPT	23,9 .94	31,8 1.25	8,1 .32	35,1 1.38	170 2500
SLW - 20	1-1/4-11-1/2 NPT	30,5 .120	31,0 1.22	10,4 .41	44,5 1.75	138 2000
SLW - 24	1-1/2-11-1/2 NPT	36,6 1.44	31,0 1.22	10,4 .41	50,8 2.00	100 1500
SLW - 32	2-11-1/2 NPT	47,8 1.88	32,5 1.28	10,4 .41	63,5 2.50	70 1000

Characteristics

Visual fluid level indication in hydraulic reservoirs

Nominal Sizes and Designs

- Thread sizes from 1/4-18 NPT to 2-11-1/2 NPT
- SAE thread available on request

Materials

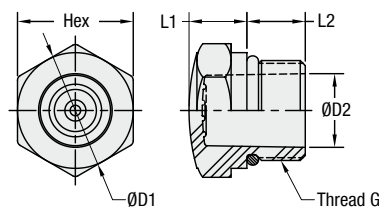
- Housings made of Steel, electroless nickel plated
- Hermetically sealed prism lenses made of Glass

Consult STAUFF for alternative materials.

Technical Data

- Max. operating temperature: +260 °C / +500 °F

Plastic Sight Glasses - Type OLG



Dimensions

Order Code	Thread G	Dimensions (mm/in)				
		ØD1	ØD2	L1	L2	Hex
OLG - U08 - P - P	3/4-16 UNF	22	14	8	11	22,0
		.90	.55	.31	.43	.90
OLG - U12 - P - P	1-1/16-12 UNF	32	20	11,9	15,1	32
		1.26	.79	.47	.59	1.26
OLG - U16 - P - P	1-5/16-12 UNF	41	25	12,9	15,1	41
		1.61	.98	.51	.59	1.61
OLG - U20 - P - P	1-5/8-12 UNF	50	30	15,9	15,1	50
		1.97	1.18	.63	.59	1.97

Characteristics

Visual fluid level indication in hydraulic reservoirs

Nominal Sizes and Designs

- Thread sizes from 3/4-16 UNF to 1-5/8-12 UNF
- SAE thread available on request

Materials

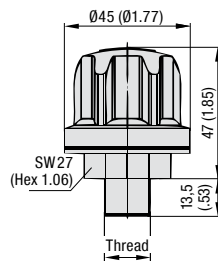
- Housings made of Polyamide (TR-90-UV)
- Sealings made of NBR (Buna-N®)

Consult STAUFF for alternative materials.

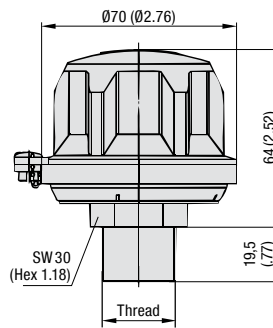
Technical Data

- Operating temp. range: -30 °C ... +90 °C / -22 °F ... +194 °F

Plastic Filler Breather - Types SPB 1 / 2 / 3 (Screw-In Version)

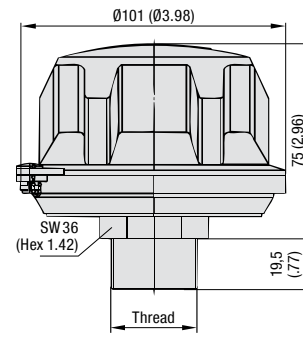


SPB 1



SPB 2

(See page E16 for compact version SPBN)



SPB 3

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
- Screw-in version, equipped with male NPT thread (ANSI B1.20.1) or 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®)

Consult 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

Please see page E14 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 E15 for detailed air flow curves.

Oil Displacement

- 150 l/min / 40 US GPM for SPB 1
- 400 l/min / 106 US GPM for SPB 2
- 1000 l/min / 264 US GPM for SPB 3

Installation

- Recommended mounting spaces:
Ø48 mm / Ø1.89 in for SPB 1,
Ø90 mm / Ø3.54 in for SPB 2, and
Ø122 mm / Ø4.80 in for SPB 3

Thread Options

Thread	SPB 1	SPB 2	SPB 3	Code
Male NPT Thread (ANSI B1.20.1)	1/4	○	○	N04
	3/8	○	○	N06
	1/2	○	○	N08
	3/4	●	●	N12
	1	○	○	N16

Thread	SPB 1	SPB 2	SPB 3	Code
Male BSP Thread (ISO 228)	G1/4	○	○	B04
	G3/8	●	○	B06
	G1/2	●	○	B08
	G3/4	○	●	B12
	G1	○	●	B16

● Standard Option

Order Codes

SPB	-	S	-	2	-	10	-	N12	-	0	-	D200
①		②		③		④		⑤		⑥		⑦

① Type

Plastic Filler Breather **SPB**

② Pressurisation

Without pressurisation	S
Pressurised at 0,2 bar / 3 PSI	P1
Pressurised at 0,35 bar / 5 PSI	P2
Pressurised at 0,7 bar / 10 PSI	P3

Type SPB 1 is only available without pressurisation.

Please see page E14 for details.

③ Version

Screw-in version; Cap diameter Ø45 mm (Ø1.77 in)	1
Screw-in version; Cap diameter Ø70 mm (Ø2.76 in)	2
Screw-in version; Cap diameter Ø101 mm (Ø3.98 in)	3

④ Air Filter Element (Material / Micron Rating)

Without air filter element (special option)	00
10 µm Foam / PUR (standard option)	10
40 µm Foam / PUR	40
3 µm Inorganic Glass-Fibre, pleated (special option)	E03
10 µm Filter Paper, pleated (special option)	L10

Options E03 and L10 are only available for type SPB 3.
Consult STAUFF for alternative materials / micron ratings.

⑤ Connection Thread (Male)

1/4 NPT (for SPB 1 only)	N04
3/8 NPT (for SPB 1 only)	N06
1/2 NPT (for SPB 1 only)	N08
3/4 NPT (for SPB 1, 2 and 3)	N12
1 NPT (for SPB 3 only)	N16
G1/4 (for SPB 1 only)	B04
G3/8 (for SPB 1 and 2 only)	B06
G1/2 (for SPB 1, 2 and 3)	B08
G3/4 (for SPB 2 and 3 only)	B12
G1 (for SPB 3 only)	B16

⑥ Anti-Splash Feature

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

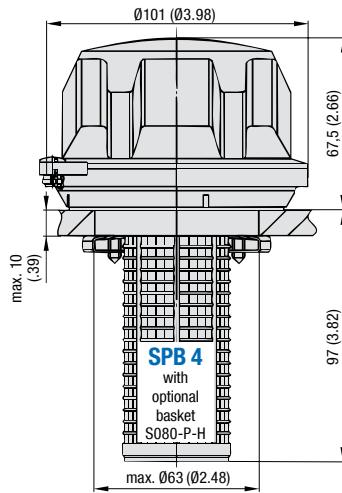
The anti-splash feature for the SPB 1, can only be achieved in conjunction with a dipstick, but is not available for the SPB 1 with connection sizes B04 and N04. Please see page E14 for details.

⑦ Dipstick

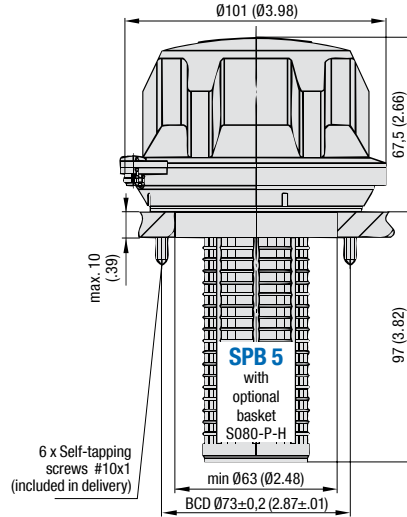
Plastic dipstick (200 mm / 7.88 in) with integrated anti-splash feature	D200
Plastic dipstick (300 mm / 11.81 in) with integrated anti-splash feature	D300
Without dipstick	-

A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements. Please see page E14 for details.

Plastic Filler Breather ▪ Types SPB 4 / 5 (Flange Version)



Clamping jaw installation
to a single mounting hole



Installation to a six-hole bolt pattern
with flange interface similar to DIN 24557, Part 2



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 jaw installation to a single mounting hole 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®)

Consult 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

Please see page E14 for details.

Maximum Air Flow Rate

- 1,00 m³/min / 35.31 cfm for SPB 4+5

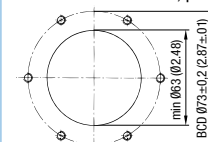
Please see page E15 for detailed air flow curves.

Oil Displacement

- 1000 l/min / 264 US GPM for SPB 4+5

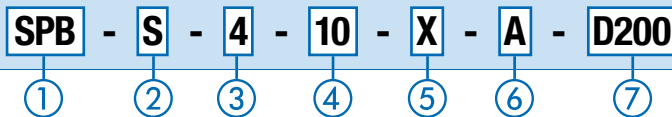
Installation

- Recommended mounting space: Ø122 mm / Ø4.8 in
- Six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2 (type SPB 5):



- 6 self-tapping screws #10x1 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 / Ø.16 in at a thickness of 1,20 mm / .05 in,
Ø4,1 mm / Ø.16 in at a thickness of 2,00 mm / .08 in,
Ø4,3 mm / Ø.17 in at a thickness of 4,00 mm / .16 in, and
Ø4,4 mm / Ø.17 in at a thickness of 5,00 mm / .20 in

Order Codes



① Type

Plastic Filler Breather **SPB**

② Pressurisation

Without pressurisation **S**
Pressurised at 0,2 bar / 3 PSI **P1**
Pressurised at 0,35 bar / 5 PSI **P2**
Pressurised at 0,7 bar / 10 PSI **P3**

Please see page E14 for details.

③ Version

Bayonet version for clamping jaw installation to a single mounting hole; Cap diameter Ø101 mm (Ø3.98 in) **4**
Bayonet Version with six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2; Cap diameter Ø101 mm (Ø3.98 in) **5**

④ Air Filter Element (Material / Micron Rating)

Without air filter element (special option) **00**
10 µm Foam / PUR (standard option) **10**
40 µm Foam / PUR **40**
3 µm Inorganic Glass-Fibre, pleated (special option) **E03**
10 µm Filter Paper, pleated (special option) **L10**

Consult STAUFF for alternative materials / micron ratings.

⑤ Basket Option

Plastic basket S080-P-H (105 mm / 4.13 in) **S080**
Telescopic plastic basket S200-P-H-T (max. 205 mm / max. 8.07 in) **S200**
Plastic basket S095-P with flange interface similar to DIN 24557, part 2 (95 mm / 3.74 in) **S095P**
Without basket **X**

Option S095P is only available for type SPB 5.

Please see page E14 for details and order codes for spare parts.

⑥ Anti-Splash Feature

With anti-splash feature (standard option) **A**
Without anti-splash feature **0**

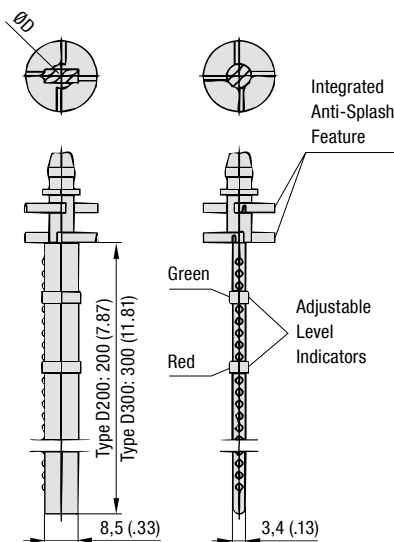
⑦ Dipstick

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**
Without dipstick **-**

A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements. When choosing a combination of a basket and a dipstick, the dipstick has to be at least 15 mm / .59 in shorter than the basket.

Please see page E14 for details and order codes for spare parts.

Plastic Dipstick ▪ Types DS 1 / 2 / 3 Anti-Splash Feature



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.

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 SPB 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. The anti-splash feature for the SPB 1 (except the type SPB 1 with connection sizes B04 and N04), can only be achieved in conjunction with a dipstick.

Connection	Code	For Type	Suitable Dipstick*	ØD (mm/in)
Male NPT Thread (ANSI B1.20.1)	1/4	N04	SPB 1	Dipstick Option Not Available
	3/8	N06	SPB 1+2	DS-1
	1/2	N08	SPB 1-3	DS-2
	3/4	N12	SPB 1+2 SPBN	DS-3
	1	N16	SPB 3 SPBN	DS-3
Male BSP Thread (ISO 228)	G1/4	B04	SPB 1	Dipstick Option Not Available
	G3/8	B06	SPB 1	DS-1
	G1/2	B08	SPB 1	DS-2
	G3/4	B12	SPB 1-3 SPBN	DS-3
	G1	B16	SPB 3 SPBN	DS-3
Plastic Basket	S080	SPB 4+5	DS-3	18 / .71
	S095-P	SPB 5	DS-3	18 / .71
	S200	SPB 4+5	DS-3	18 / .71
w/o Basket	X	SPB 4+5	DS-3	18 / .71

* When ordered separately, please add the length of the dipstick (in mm) to the ordering code (e.g. DS-2-300).

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.

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

Plastic Basket ▪ Types S080-P-H / S095-P / S200-P-H-T

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 mm / .03 x .14 in mesh (800 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-P-H** (length of 105 mm / 4.13 in) snaps into the breather housing and is suitable for the SPB 4 and SPB 5.

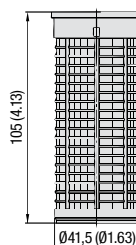
The **Plastic Basket S095-P** (length of 95 mm / 3.74 in) is equipped with a six-hole bolt pattern with flange interface similar to DIN 24557, part 2. It is suitable for the SPB 5 only and is installed between the breather housing of the SPB 5 and the reservoir.

The **Telescopic Plastic Basket S200-P-H-T** (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.

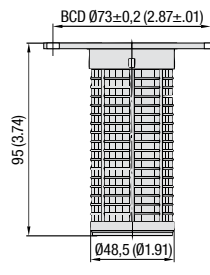
Please note: When choosing a combination of a dipstick (see above) and a basket, the dipstick has to be at least 15 mm / .59 in shorter than the basket.

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

**Plastic Basket
S080-P-H** (for SPB 4+5)
Material: Polypropylene (PP)

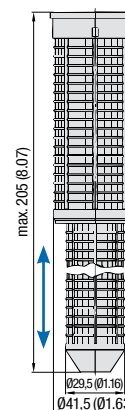


**Plastic Basket
S095-P** (only for SPB 5)
Material: Polyamide (PA)



Six-hole bolt pattern
with flange interface
according to
DIN 24557, part 2

**Telescopic Plastic Basket
S200-P-H-T** (for SPB 4+5)
Material: Polypropylene (PP)



Pressurisation

All Plastic Filler Breathers (except the type SPB 1) are also available as pressurised versions with pressure settings of 0,7 bar / 10 PSI, 0,35 bar / 5 PSI or 0,2 bar / 3 PSI. In order to achieve an air flow, the actual tank pressure has to exceed the chosen pressure setting of the Plastic Filler Breather.

When the fluid level inside the reservoir rises, no air is expelled from the reservoir until the pressurisation level is reached.

When the fluid level inside the reservoir falls, the tank pressure drops and 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 E25 for details)

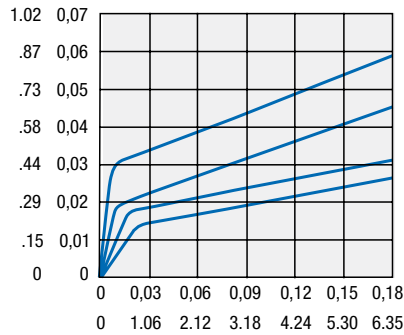


**Side Mount Bracket
(Polyamide) ▪ Type ASMB-1**
Suitable for SPB 5
(See page E24 for details)



**Side Mount Bracket
(Aluminium) ▪ Type ASMB-2**
Suitable for SPB 5
(See page E24 for details)

Pressure Drop Flow Curves Plastic Filler Breathers

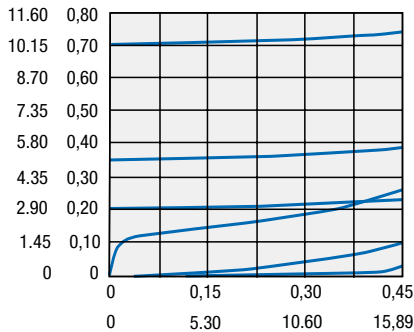
 Δp in PSI Δp in bar


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)

 Δp in PSI Δp in bar


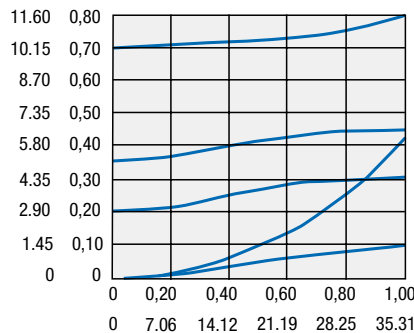
Type SPB 2 (into / out of the tank)

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; pressurised at 0.2 bar / 3 PSI)

B12 and N12 (out of the tank; without pressurisation)
B12 and N12 (into the tank; without pressurisation)

 Δp in PSI Δp in bar


Type SPB 3 (into / out of the tank)

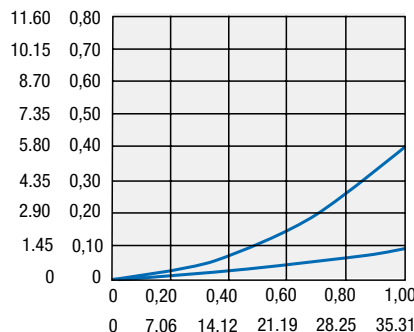
B12 and N12 (out of the tank; pressurised at 0.7 bar / 10 PSI)

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; pressurised at 0.2 bar / 3 PSI)

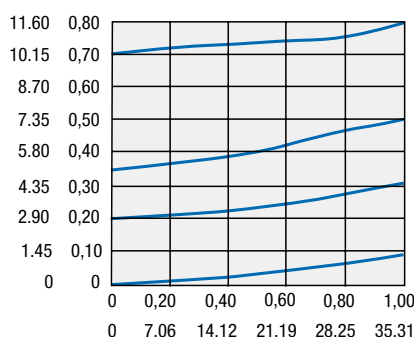
B12 and N12 (into / out of the tank; without pressurisation)

 Δp in PSI Δp in bar


Type SPB 4+5 (into the tank)

(into the tank; pressurised at 0.7 bar / 10 PSI, 0.35 bar / 5 PSI or 0.2 bar / 3 PSI)

(into the tank; without pressurisation)

 Δp in PSI Δp in bar


Type SPB 4+5 (out of the tank)

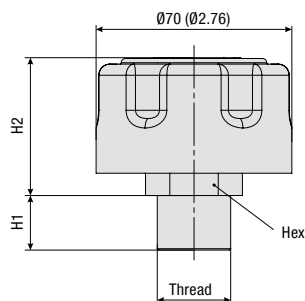
(out of the tank; pressurised at 0.7 bar / 10 PSI)

(out of the tank; pressurised at 0.35 bar / 5 PSI)

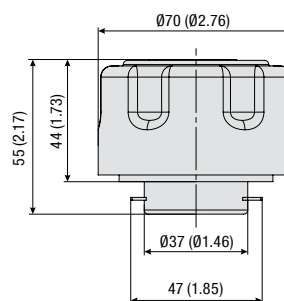
(out of the tank; pressurised at 0.2 bar / 3 PSI)

(out of the tank; without pressurisation)

Plastic Filler Breather - Type SPBN (Compact Design; Screw-In or Bayonet Version)



SPBN
Screw-In Version



SPBN
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
- Screw-in version, equipped with male NPT thread (ANSI B1.20.1) or male BSP thread (ISO 228)
- Bayonet version with a six-hole bolt pattern for flange interfaces 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®)

Consult STAUFF for alternative materials.

Accessories / Options

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

Please see page E17 for details.

Maximum Air Flow Rate

- 0,40 m³/min / 14.13 cfm

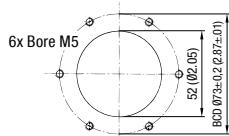
Please see page E17 for detailed air flow curves.

Oil Displacement

- 400 l/min / 106 US GPM

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 (Screw-In Version)

Thread	Dimensions (mm/in)		
	H1	H2	Hex
Male 3/4 NPT (ANSI B1.20.1)	19,5 .77	49,5 1.95	30 1.18
Male 1 NPT (ANSI B1.20.1)	24 .95	49,5 1.95	36 1.42

Thread	Dimensions (mm/in)		
	H1	H2	Hex
Male G3/4 BSP (ISO 228)	19,5 .77	49,5 1.95	30 1.18
Male G1 BSP (ISO 228)	24 .95	49,5 1.95	36 1.42

Order Codes

SPBN	-	S	-	2	-	10	-	B12	-	0	-	D200
①		②		③		④		⑤		⑥		⑦

① Type

Plastic Filler Breather (Compact Design) **SPBN**

② Pressurisation

Without pressurisation	S
Pressurised at 0,2 bar / 3 PSI	P1
Pressurised at 0,35 bar / 5 PSI	P2
Pressurised at 0,7 bar / 10 PSI	P3

Please see page E17 for details.

③ Version

Cap diameter Ø70 mm (Ø2.76 in) **2**

④ Air Filter Element (Material / Micron Rating)

Without air filter element	00
10 µm Foam / PUR (standard option)	10
40 µm Foam / PUR	40

Consult STAUFF for alternative materials / micron ratings.

⑤ Connection

Screw-in version; Male 3/4 NPT thread	N12
Screw-in version; Male 1 NPT thread	N16
Screw-in version; Male G3/4 thread	B12
Screw-in version; Male G1 thread	B16
Bayonet version; Breather only	BS
Bayonet version; Breather including mounting set (with bayonet flange, gaskets and bolts)	BM
Bayonet version; Breather incl. mounting set and plastic basket with flange interface (95 mm / 3.74 in)	S095P
Bayonet version; Breather incl. mounting set and metal basket with flange interface (80 mm / 3.15 in)	S080
Bayonet version; Breather incl. mounting set and metal basket with flange interface (100 mm / 3.94 in)	S100
Bayonet version; Breather incl. mounting set and metal basket with flange interface (150 mm / 5.91 in)	S150
Bayonet version; Breather incl. mounting set and metal basket with flange interface (200 mm / 7.87 in)	S200

⑥ Anti-Splash Feature

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

Please see page E17 for details.

⑦ Dipstick

Plastic dipstick DS-3-200 (200 mm / 7.88 in) with integrated anti-splash feature	D200
Plastic dipstick DS-3-300 (300 mm / 11.81 in) with integrated anti-splash feature	D300
Without dipstick	-

A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements. Please see pages E14 and E17 for details.

Order codes for spare parts: **DS-3-200 / DS-3-300**.

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 consult STAUFF for further details.

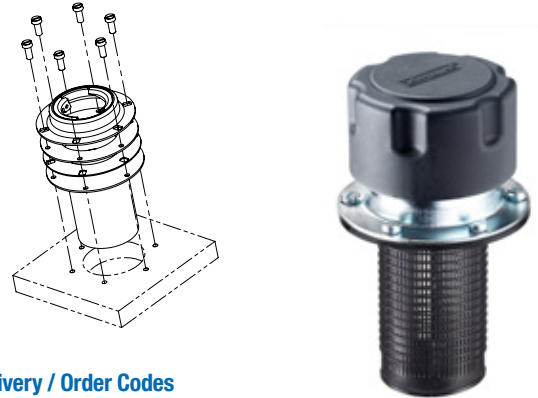
Pressurisation

All Plastic Filler Breathers are also available as pressurised versions with pressure settings of 0,7 bar / 10 PSI, 0,35 bar / 5 PSI or 0,2 bar / 3 PSI. In order to achieve an air flow, the actual tank pressure has to exceed the chosen pressure setting of the Plastic Filler Breather.

When the fluid level inside the reservoir rises, no air is expelled from the reservoir until the pressurisation level is reached. When the fluid level inside the reservoir falls, the tank pressure drops and 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 and which causes erosion and oil degradation.

Mounting Set for Baskets (including Bayonet Flange, Gaskets and Bolts)



Scope of Delivery / Order Codes

Mounting sets for baskets include the following components:

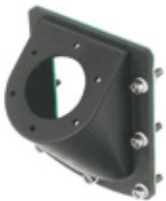
- 6 slotted pan head screws made of steel, zinc-plated (ISO 1580 M5 x 12-5.8)
- Bayonet flange made of steel, zinc-plated, with six-hole bolt pattern acc. to DIN 24557, part 2
- 2 gaskets made of NBR (Buna-N®) - one for underneath and one for on top of the basket
- Plastic or metal basket (only if required):
 - Plastic basket (95 mm / 3.74 in): **S-095-P-F-SPBN-BS-NBR**
 - Metal basket (80 mm / 3.15 in): **S-080-M-F-SPBN-BS-NBR**
 - Metal basket (100 mm / 3.94 in): **S-100-M-F-SPBN-BS-NBR**
 - Metal basket (150 mm / 5.91 in): **S-150-M-F-SPBN-BS-NBR**
 - Metal basket (200 mm / 7.87 in): **S-200-M-F-SPBN-BS-NBR**
 - Without basket: **Adapter-SPBN-BM-NBR**

Mounting sets can also be ordered as part of a complete breather assembly.
Please see page E16 for details.

Further Accessories / Options



Extended Bayonet Flange - Type EBF
Suitable for SPBN; Bayonet Version
(See page E25 for details)



Side Mount Bracket (Polyamide) - Type ASMB-1
Suitable for SPBN; Bayonet Version
(See page E24 for details)

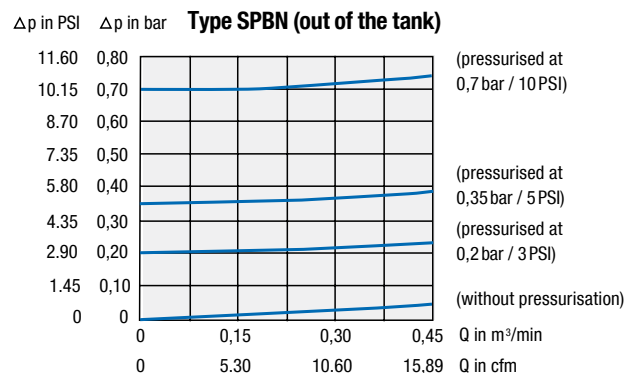
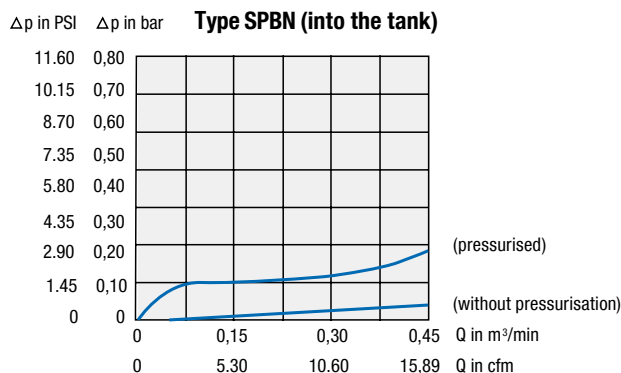


Weld Riser - Type WR
Suitable for SPBN; Bayonet Version
(See page E25 for details)

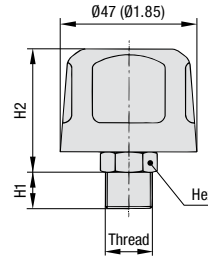


Side Mount Bracket (Aluminium) - Type ASMB-2
Suitable for SPBN; Bayonet Version
(See page E24 for details)

Pressure Drop Flow Curves Plastic Filler Breathers



Metal Filler Breather ▪ Type SMBT-47 (Screw-In 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
- Screw-in version, equipped with male NPT thread (ANSI B1.20.1) or male BSP thread (ISO 228)

Materials

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

Consult STAUFF for alternative materials.

Accessories / Options

- Air filter element

Maximum Air Flow Rate

- 0,40 m³/min / 14.13 cfm

Consult STAUFF for detailed air flow curves.

Oil Displacement

- 400 l/min / 106 US GPM

Dimensions

Thread	Dimensions (mm/in)		
	H1	H2	Hex
Male 1/4 NPT (ANSI B1.20.1)	13 .51	41 2.38	17 .67
Male 3/8 NPT (ANSI B1.20.1)	15 .59	41 2.38	19 .74

Consult STAUFF for alternative threads.

Thread	Dimensions (mm/in)		
	H1	H2	Hex
Male G1/4 BSP (ISO 228)	10 .39	41 2.38	17 .67
Male G3/8 BSP (ISO 228)	13 .51	41 2.38	19 .74
Male G1/2 BSP (ISO 228)	14 .55	41 2.38	22 .88

Order Codes

SMBT	-	47C	-	S	-	10	-	0	-	N08
①		②		③		④		⑤		⑥

① Type / Version

Metal Filler Breather; Screw-in version **SMBT**

② Cap Diameter / Material / Surface Finishing

Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, chrome-plated (standard option)	47C
Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, zinc/nickel-plated	47
Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, epoxy-coated	47E

③ Label

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

④ Air Filter Element (Material / Micron Rating)

Without air filter element (special option)	00
10 µm Foam / PUR (standard option)	10
40 µm Foam / PUR	40

Consult STAUFF for alternative materials / micron ratings.

⑤ Pressurisation

Without pressurisation (standard option) **0**

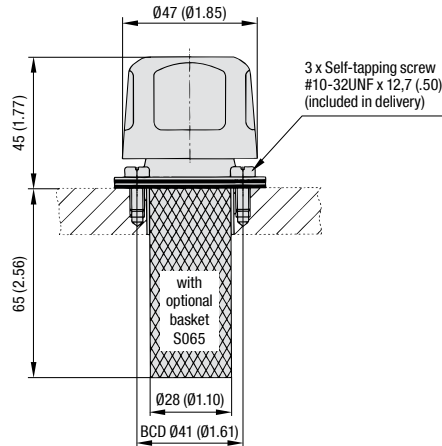
No pressurisation available for this cap diameter.

⑥ Connection Thread (Male)

1/4 NPT	N04
3/8 NPT	N06
G1/4	B04
G3/8	B06
G1/2	B08

Consult 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

Materials

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

Consult STAUFF for alternative materials.

Accessories / Options

- Metal basket (800 µm)
- Air filter element

Maximum Air Flow Rate

- 0,40 m³/min / 14.13 cfm

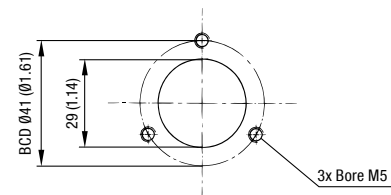
Consult STAUFF for detailed air flow curves.

Oil Displacement

- 400 l/min / 106 USGPM

Installation

- Three-hole bolt pattern for flange interfaces:



- 3 self-tapping screws #10-32UNF x 12,7 (.50) are included in delivery; can be replaced by regular M5 bolts, if required

Order Codes

SMBB	-	47C	-	S	-	10	-	0	-	C	-	S065
①		②		③		④		⑤		⑥		⑦

① Type / Version

Metal Filler Breather; Bayonet version **SMBB**

② Cap Diameter / Material / Surface Finishing

Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, chrome-plated (standard option) **47C**
 Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, zinc/nickel-plated **47**
 Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, epoxy-coated **47E**

③ Label

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

④ Air Filter Element (Material / Micron Rating)

Without air filter element (special option) **00**
 10 µm Foam / PUR (standard option) **10**
 40 µm Foam / PUR **40**

Consult STAUFF for alternative materials / micron ratings.

⑤ Pressurisation

Without pressurisation (standard option) **0**

No pressurisation available for this cap diameter.

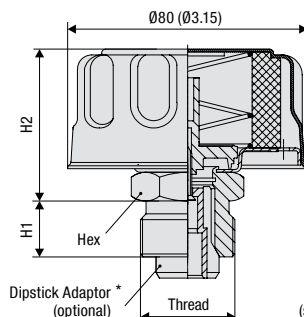
⑥ Sealing Material

Cork (standard option) **C**

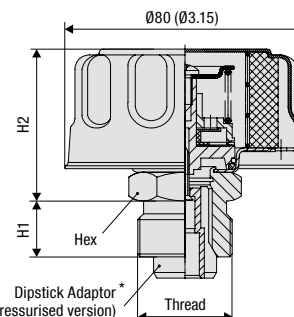
⑦ Basket Option

Metal basket (65 mm / 2.56 in) **S065**
 Without basket **0**

Metal Filler Breather ▪ Type SMBT-80 (Screw-In Version)



Without Pressurisation



Pressurised

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

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
- Screw-in version, equipped with male NPT thread
- (ANSI B1.20.1) or male BSP thread (ISO 228)

Materials

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

Consult 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 DS-1 with integrated anti-splash feature (not for connection threads G1/2 and 1/2 NPT)

Maximum Air Flow Rate

- 0,45 m³/min / 15.89 cfm

Consult STAUFF for detailed air flow curves.

Oil Displacement

- 450 l/min / 119 USGPM

Dimensions

Thread	Dimensions (mm/in)		
	H1	H2	Hex
Male 1/2 NPT (ANSI B1.20.1)	14 .51	52,5 2.07	24 .94
Male 3/4 NPT (ANSI B1.20.1)	16 .59	52,5 2.07	30 1.18
Male G1 NPT (ANSI B1.20.1)	19 .75	52,5 2.07	36 1.42

Thread	Dimensions (mm/in)		
	H1	H2	Hex
Male G1/2 BSP (ISO 228)	14 .55	54 2.13	24 .94
Male G3/4 BSP (ISO 228)	16 .63	54 2.13	30 1.18
Male G1 BSP (ISO 228)	19 .75	54 2.13	36 1.42

Order Codes

SMBT	-	80C	-	S	-	10	-	0	-	N08	-	0
①		②		③		④		⑤		⑥		⑦

① Type / Version

Metal Filler Breather; Screw-in version **SMBT**

② Cap Diameter / Material / Surface Finishing

Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, chrome-plated (standard option)	80C
Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, zinc/nickel-plated	80
Cap diameter Ø80 mm (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 air filter element	00
3 µm Filter Paper	03
10 µm Foam / PUR (standard option)	10
40 µm Foam / PUR	40

Consult STAUFF for alternative materials / micron ratings.

⑤ Pressurisation

Without pressurisation (standard option)	0
Pressurised at 0,35 bar / 5 PSI	P2
Pressurised at 0,7 bar / 10 PSI	P3

⑥ Connection Thread (Male)

1/2 NPT	N08
3/4 NPT	N12
1 NPT	N16
G1/2	B08
G3/4	B12
G1	B16

Consult STAUFF for alternative threads.

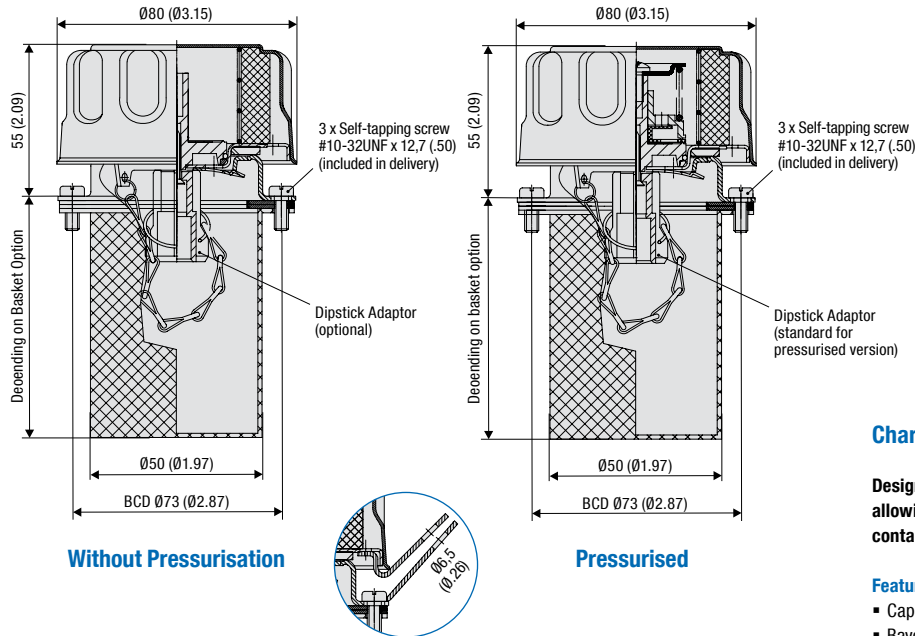
⑦ Dipstick

Without dipstick (standard option)	0
With dipstick adaptor suitable for dipstick DS-1 (not for connection threads G1/2 and 1/2 NPT)	A
With dipstick adaptor and plastic dipstick DS-1 (300 mm / 11.81 in) with integrated anti-splash feature (not for connection threads G1/2 and 1/2 NPT)	D300

A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements.

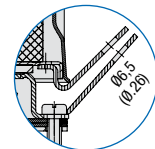
Please note: The dipstick adaptor is required for the subsequent installation of plastic dipsticks DS-1 (see page E14 for details), and is included in delivery when ordering a pressurised version. The dipstick adaptor is not available for connection threads G1/2 and 1/2 NPT.

Metal Filler Breather • Type SMBB-80 (Bayonet Version)



Without Pressurisation

Pressurised



Locking Feature

(Recommended mounting space: Ø126 mm / Ø4.96 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 Ø80 mm / Ø3.15 in
- Bayonet version with a six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2

Materials

- Breather cap made of Steel, chrome-plated (standard option); zinc/nickel-plated (Fe/Zn Ni 6; free of hexavalent chromium CrVI) 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)

Consult STAUFF for alternative materials.

Accessories / Options

- Metal or plastic basket (800 µm)
- Pressurisation up to 0,7 bar / 10PSI
- Air filter element
- Locking feature
- Dipstick adaptor (suitable for plastic dipstick DS-1)
- Plastic dipstick with integrated anti-splash feature

Maximum Air Flow Rate

- 0,45 m³/min / 15.89 cfm

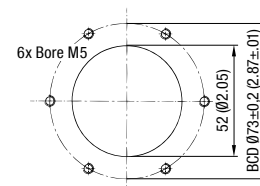
Consult STAUFF for detailed air flow curves.

Oil Displacement

- 450 l/min / 119 US GPM

Installation

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



- 6 self-tapping screws #10-32UNF x 12,7 (.50) are included in delivery; can be replaced by regular M5 bolts, if required

Order Codes

SMBB	-	80C	-	S	-	L	-	10	-	O	-	C	-	S095P	-	O
1		2		3		4		5		6		7		8		9

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, chrome-plated (standard option) **80C**
 Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, zinc/nickel-plated **80**
 Cap diameter Ø80 mm (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 Locking Feature

Without locking feature (standard option) **O**
 With locking feature (see drawing above) **L**

5 Air Filter Element (Material / Micron Rating)

Without air filter element **00**
 3 µm Filter Paper **03**
 10 µm Foam / PUR (standard option) **10**
 40 µm Foam / PUR **40**

Consult STAUFF for alternative materials / micron ratings.

6 Pressurisation

Without pressurisation (standard option) **0**
 Pressurised at 0,35 bar / 5 PSI **P2**
 Pressurised at 0,7 bar / 10 PSI **P3**

7 Sealing Material

Cork (for filler breathers without pressurisation) **C**
 NBR (Buna-N®) (for pressurised filler breathers) **B**

8 Basket Option

Without basket **0**
 Plastic basket (95 mm / 3.74 in) (standard option) **S095P**
 Metal basket (80 mm / 3.15 in) **S080**
 Metal basket (100 mm / 3.94 in) **S100**
 Metal basket (150 mm / 5.91 in) **S150**
 Metal basket (200 mm / 7.87 in) **S200**
 Heavy duty metal basket (200 mm / 7.87 in) **S200HD**

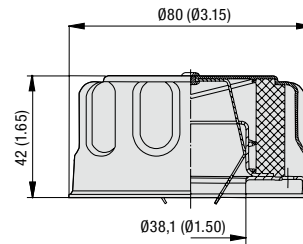
9 Dipstick

Without dipstick (standard option) **0**
 Dipstick adaptor (suitable for dipstick DS-1) **A**
 With dipstick adaptor and plastic dipstick DS-1 (300 mm / 11.81 in) with integrated anti-splash feature **D300**

A shorter dipstick length can be achieved by simply cutting down the total length according to individual requirements.

Please note: The dipstick adaptor is required for the subsequent installation of plastic dipsticks DS-1 (see page E14 for details), and is content of delivery when ordering a pressurised version.

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

Materials

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

Consult STAUFF for alternative materials.

Accessories / Options

- Air filter element

Maximum Air Flow Rate

- 0,45 m³/min / 15.89 cfm

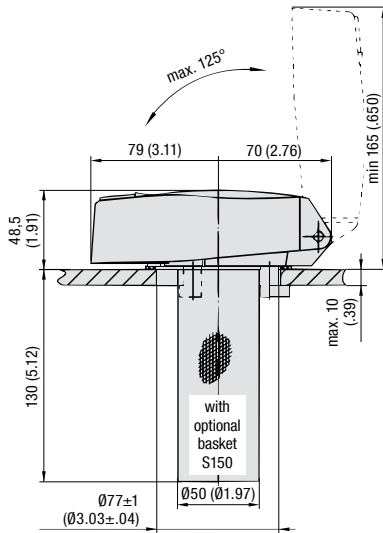
Consult STAUFF for detailed air flow curves.

Oil Displacement

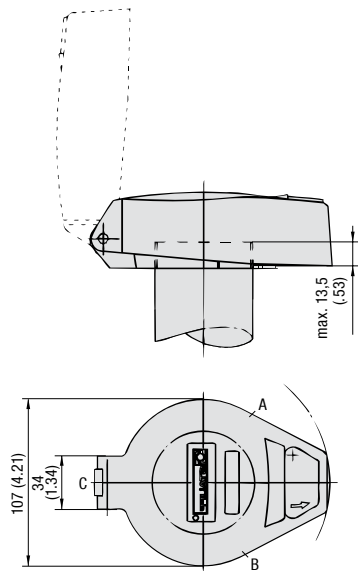
- 450 l/min / 119 US GPM

Order Codes

SMBP - 80C - S - 10 - 0				
①	②	③	④	⑤
① Type / Version Metal Breather; Push-on version SMBP				
② Cap Diameter / Material / Surface Finishing Cap diameter Ø80 (Ø3.15 in); Breather cap made of Steel, chrome-plated (standard option) 80C Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, zinc/nickel-plated 80 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 air filter element 00 10 µm Foam / PUR (standard option) 10 40 µm Foam / PUR 40 Consult STAUFF for alternative materials / micron ratings.				
⑤ Dipstick Without dipstick (standard option) 0				



Clamping Version



Threaded Version

Recommended mounting space: Ø162 mm / Ø6.38 in
2 locking screws M6 x 6 (DIN 916) at positions A and B

Push-On Version

3 locking screws M6 x 6 (DIN 916) at positions A, B and C

Lockable Metal Filler Breather ▪ Type SMBL (Clamping, Threaded and Push-On Version)



Clamping version
with metal basket
(150 mm / 5.91 in)

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, zinc-plated
- Basket made of Steel, zinc-plated or Polypropylene (PP)
- Sealings made of NBR (Buna-N®) (standard option); FPM (Viton®) sealed version available

Consult STAUFF for alternative materials.

Accessories / Options

- Metal or (telescopic) plastic basket (800 µm)
- Air filter element

Order Codes

SMBL	-	C	-	10	-	1	-	S150	-	B	-	0
①		②		③		④		⑤		⑥		⑦

① Type

Lockable Metal Filler Breather **SMBL**

② Version

Clamping version with 3 clamping jaws;
Installation to a tank mounting hole of
Ø77±1 mm / Ø3.03±.04 in **C**
Threaded version with female G2 BSP thread **B32**
Threaded version with female G2-1/2 BSP thread **B40**
Push-on version for stand pipe mounting **P**

③ Air Filter Element (Material / Micron Rating)

Without air filter element **00**
10 µm Foam / PUR (standard option) **10**
40 µm Foam / PUR **40**

Consult STAUFF for alternative materials / micron ratings.

④ Air Flow

Air flow in both directions (standard option) **1**
No air flow **2**
Air flow only into the tank **3**

⑤ Basket Option

Without basket **0**
Metal basket (150 mm / 5.91 in) **S150**
Plastic basket (80 mm / 3.15 in) **S080**
Telescopic plastic basket
(max. 205 mm / max. 8.07 in) **S200**

The baskets of the SMBB 47/80 series cannot be used in conjunction with the SMBL series.

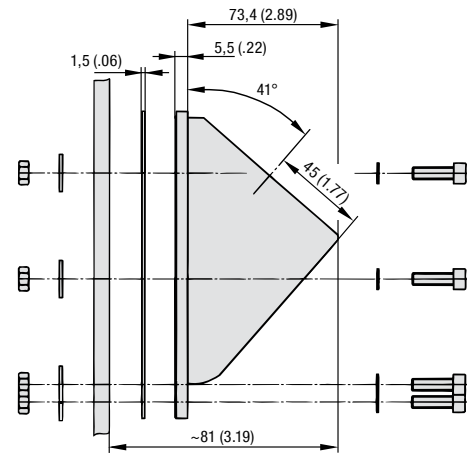
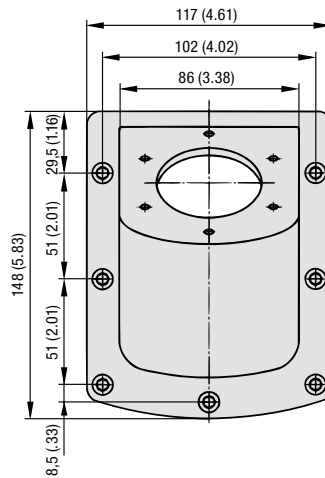
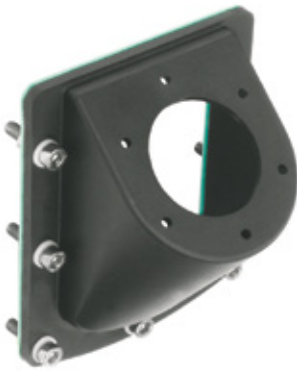
⑥ Sealing Material

NBR (Buna-N®) (standard option) **B**
FPM (Viton®) **V**

⑦ 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 $\varnothing 4,5$ mm / $\varnothing 0.18$ in (BCD $\varnothing 71 \pm 0,2$ mm / $\varnothing 2.80 \pm .01$ in)

Order Codes

SMBB-ASMB - 1	
1	2

① Type

Side Mount Bracket

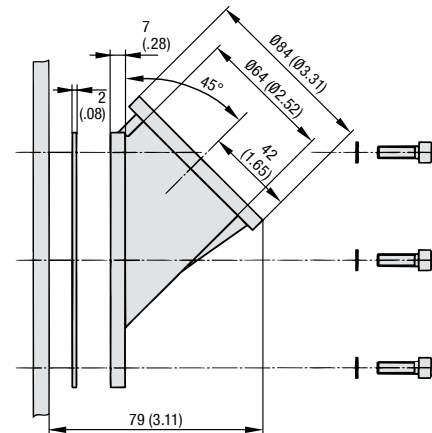
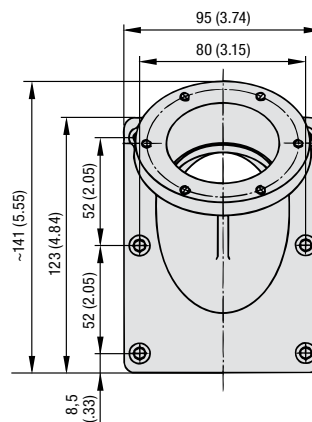
SMBB-ASMB

② Housing Material

Polyamide (PA)

1

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 Flexoid
- Screws made of Steel, zinc-plated
- Plastic spacers made of Klingerit

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 $\varnothing 73 \pm 0,2$ mm / $\varnothing 2.87 \pm .01$ in)

Order Codes

SMBB-ASMB - 2	
1	2

① Type

Side Mount Bracket

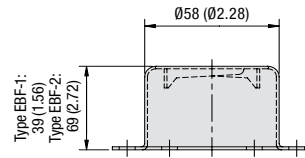
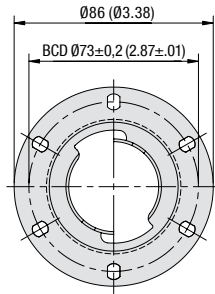
SMBB-ASMB

② Housing Material

Aluminium

2

Extended Bayonet Flange ▪ Type EBF



Order Codes

EBF - 2

① ②

① Type

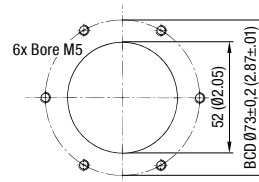
Extended Bayonet Flange **EBF**

② Size

Total height of 39 mm (1.56 in) **1**
Total height of 69 mm (2.72 in) **2**

Installation

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



- Supplied without gaskets and bolts

Characteristics

Designed to raise filler breathers either 39 mm / 1.56 in or 69 mm / 2.72 in above the actual mounting surface of the reservoir to prevent contamination from blocking the filter element

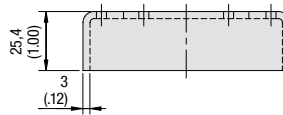
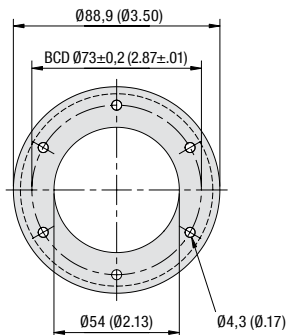
Suitability

- 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

Weld Riser ▪ Type WR



Order Codes

WR - 1

① ②

① Type

Weld Riser **WR**

② Size

Total height of 25,4 mm (1.00 in) **1**

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

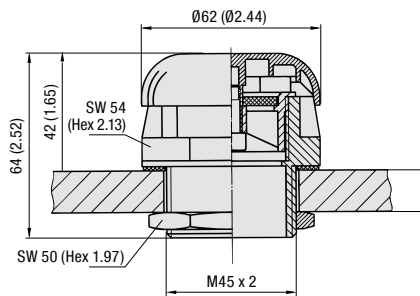
Characteristics

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

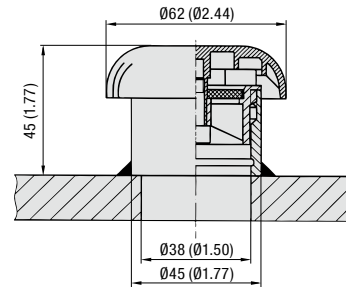
Suitability

- 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

Plastic Filler Breather ▪ Type SES (Screw-In or Welded Versions)



Screw-In Version



Welded 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 Ø62 mm / Ø2.44 in
- Screw-in 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

Materials

- Breather cap made of Polyamide (PA)
- Breather body / stud made of Polyamide (PA)
- Nut (type SES 1) made of Steel (1.0718); Polyamide (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 Polyamide (PA)
- Dipstick made of Steel (1.0718)
- Sealings made of NBR (Buna-N®)

Consult STAUFF for alternative materials.

Accessories / Options

- Plastic basket (300 µm)
- Metal dipstick

Maximum Air Flow Rate

- 0,30 m³/min / 10.60 cfm

Consult STAUFF for detailed air flow curves.

Oil Displacement

- 300 l/min / 79 USGPM

Order Codes

SES **1** - **M300**

① ② ③

① Type

Plastic Filler Breather **SES**

② Version

Screw-in version **1**
Welded version **2**

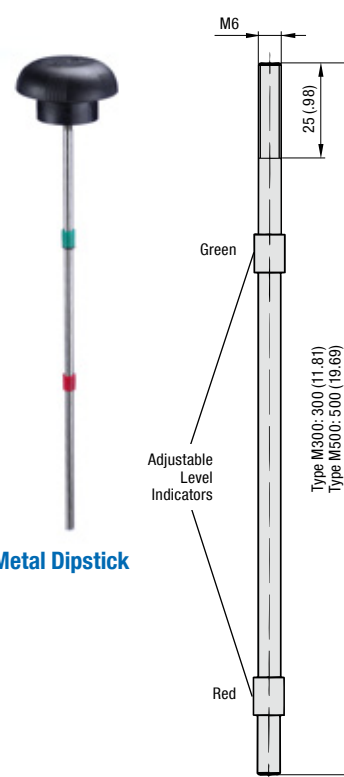
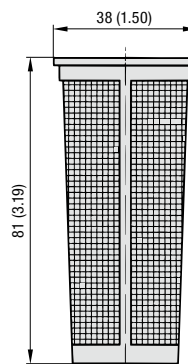
③ Basket / Dipstick Option

Plastic basket (81 mm / 3.19 in)	S
Metal dipstick (300 mm / 11.81 in)	M300
Metal dipstick (500 mm / 19.69 in)	M500
Without basket / dipstick	-

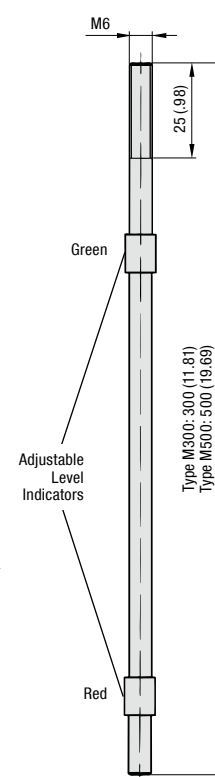
Accessories

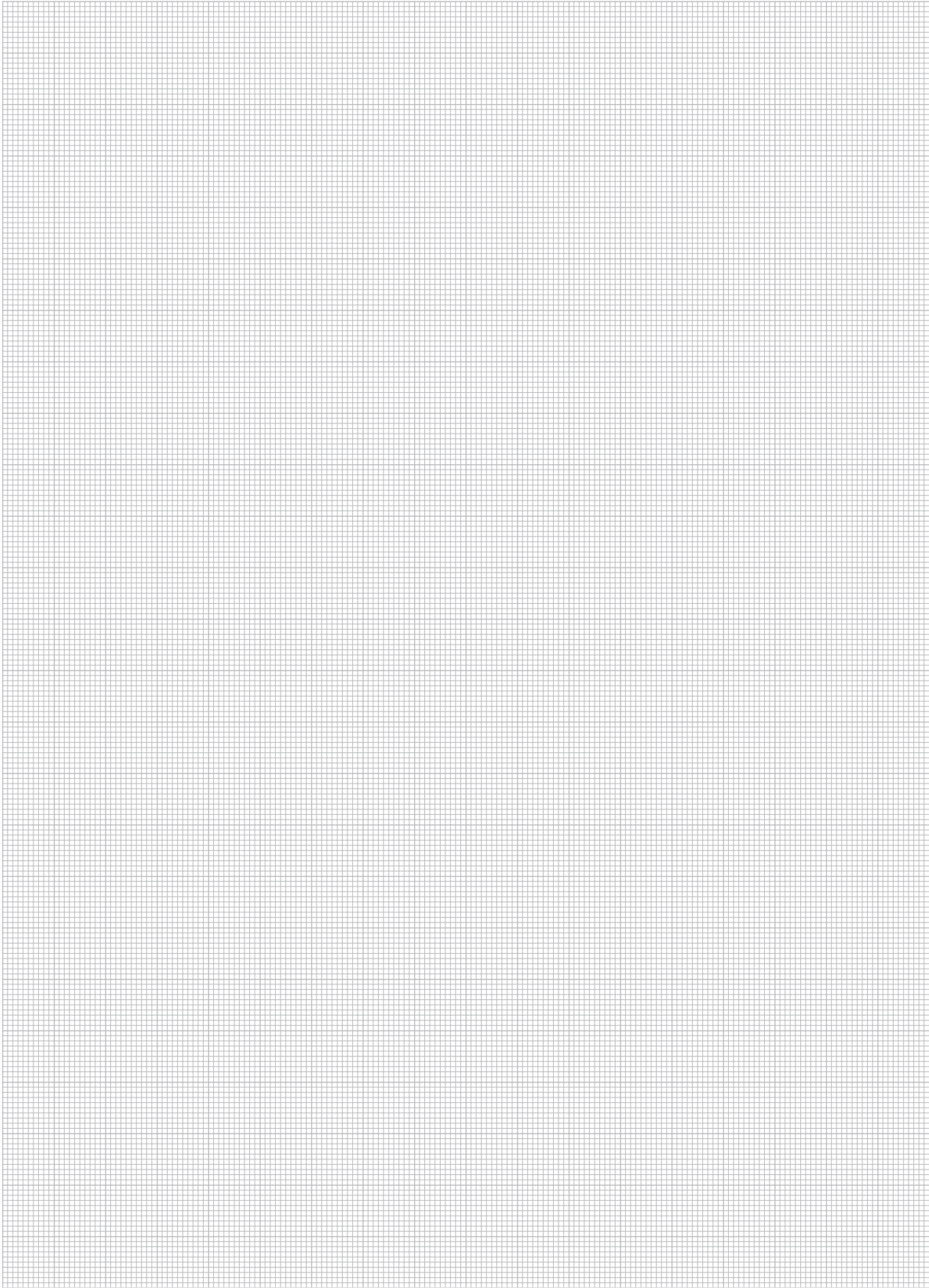


Plastic Basket



Metal Dipstick

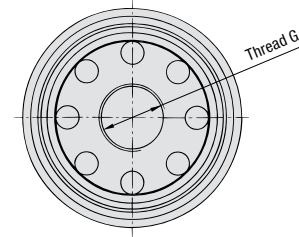
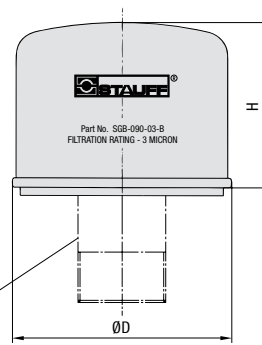




Giant Air Breather ■ Type SGB (Synthetic Fibre Media)



Adaptor BA-5B, BA-5A
TBA-075 or TBA-120
(Optional, see page
E34 for details)



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®)

Accessories / Options

- Adaptors (for direct installation on top of hydraulic reservoirs)

Please see page E34 for a selection of adaptors available, and consult STAUFF for further information.

Air Flow

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

Dimensions and Filter Specifications

Type	Thread G*	Dimensions (mm/in)		Filter Material	Micron Rating	Filter Surface	Max. Air Flow Rate
		ØD	H				
SGB-060-03-B	Female G3/8 BSP (ISO 228)	68	60	Synthetic Fibre	3 µm	415 cm²	0,05 m³/min
		2.68	2.36			63 in²	1.77 cfm
SGB-090-03-B	Female G3/4 BSP (ISO 228)	100	64	Synthetic Fibre	3 µm	752 cm²	0,70 m³/min
		3.94	2.52			115 in²	24.71 cfm
SGB-120-03-B	Female G1-1/4 BSP (ISO 228)	130	100	Synthetic Fibre	3 µm	2095 cm²	1,50 m³/min
		5.12	3.94			320 in²	52.97 cfm

* Use adaptors TBA (Steel) or BA-5A and BA-5B (Polyamide) to change female BSP thread into male BSP or male NPT thread. Please see page E34 for details.

Order Codes

SGB	-	090	-	03	-	B	-	BA5A
①		②		③		④		⑤

① Type

Giant Air Breather **SGB**

② Size

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

③ Filter Material / Micron Rating

3 µm Synthetic Fibre **03**

Consult STAUFF for alternative materials / micron ratings.

④ Connection Thread

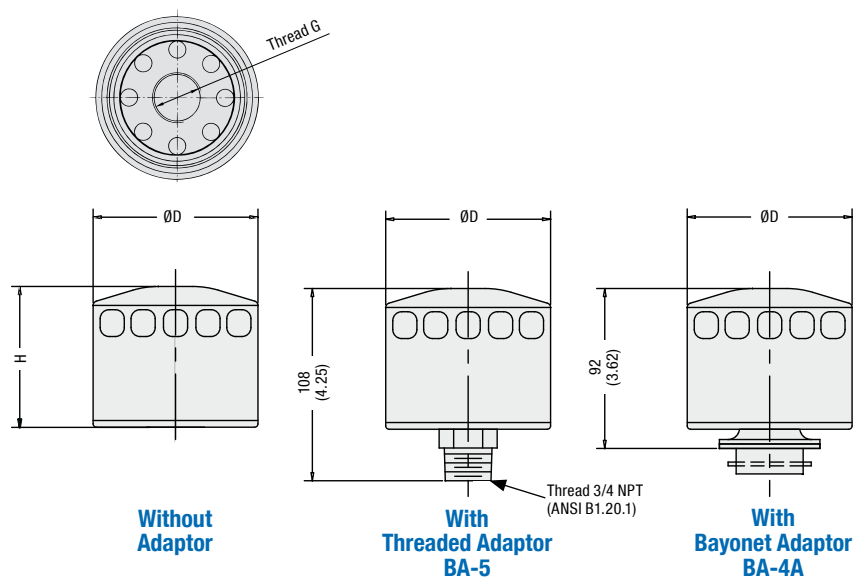
Female BSP thread (according to dimension table) **B**

⑤ Adaptor Option

Without adaptor **-**
BA-5B Polyamide adapter (for use with SGB-060-03-B) **BA-5B**
BA-5A Polyamide adapter (for use with SGB-090-03-B) **BA-5A**
TBA-075 Steel adapter (for use with SGB-090-03-B) **TBA-075**
TBA-120 Steel adapter (for use with SGB-120-03-B) **TBA-120**

Please see page E34 for details.

Giant Air Breather - Type SGB (Cellulose Media)



Characteristics

Designed to be used as separate air filters for hydraulic reservoirs

Features

- Diameter of Ø94 mm / Ø3.70 in
- Equipped with female UN thread (ANSI B1.1)
- Including sealing made of NBR (Buna-N®)

Accessories / Options

- Threaded adaptor BA-5
- Bayonet adaptor BA-4A
- Standard and extended bayonet flanges
- Metal or plastic basket (800 µm)

Air Flow

- Maximum air flow rates:
1,13 m³/min / 39.90 cfm

Dimensions and Filter Specifications

Type	Thread G	Dimensions (mm/in)		Filter Material	Micron Rating	Filter Surface	Max. Air Flow Rate
SGB-90-10P	1-1/8-16 UN	ØD	H	Cellulose	10 µm	700 cm² 109 in²	1,13 m³/min 39.90 cfm
		94	80				
		3.70	3.15				

Order Codes

SGB	-	090	-	10P	-	BA-4A	-	BB	-	S095P
①		②		③		④		⑤		⑥

① Type

Giant Air Breather **SGB**

② Size

Diameter of Ø94mm (Ø3.70 in) **090**

③ Filter Material / Micron Rating

10µm Cellulose **10P**

④ Adaptor Option

Without adaptor **-**
Threaded adaptor **BA-5**
Bayonet adaptor **BA-4A**

⑤ Bayonet Flange Option

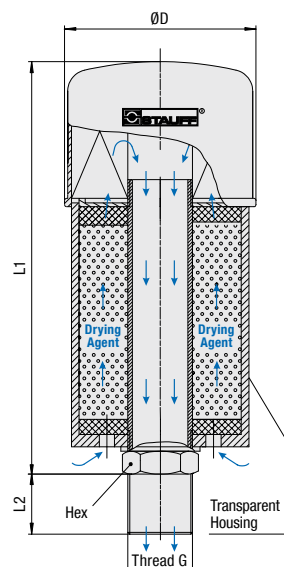
Without bayonet flange **-**
Standard bayonet flange **BB**
Extended bayonet flange EBF-1: 39 mm (1.56 in) **B1**
Extended bayonet flange EBF-2: 69 mm (2.72 in) **B2**

⑥ Basket Option

Without basket **-**
Plastic basket (95 mm / 3.74 in) **S095P**
Metal basket (80 mm / 3.15 in) **S080**
Metal basket (100 mm / 3.94 in) **S100**
Metal basket (150 mm / 5.91 in) **S150**
Metal basket (200 mm / 7.87 in) **S200**

Assembly with basket including gaskets and screws.

Desiccant Air Breather - Type SDB



Drying Agent

Capable in changing colours
with increasing moisture

ACTIVE

REPLACE

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

Dimensions and Technical Data

Type	Thread G	Dimensions (mm/in)				Weight (g/lbs)		Volume (cm³/in³) Drying Agent	Max. Water Absorption (g/lbs)	Air Filter Elements				
		ØD	L1	L2	Hex	Complete Unit	Drying Agent			Type	Filter Material	Micron Rating	Filter Surface	Max. Air Flow Rate
SDB-093	Male G3/4 BSP (ISO 228)	100	160	20	32	1200	225	300	86	SGB-090-03-B	Synthetic Fibre	3µm	752 cm²	0,70 m³/min
		3.94	6.30	.79	1.26	2.65	.50	18.3	.19				115 in²	24.71 cfm
SDB-096	Male G3/4 BSP (ISO 228)	100	220	20	32	1500	450	600	172	SGB-090-03-B	Synthetic Fibre	3µm	752 cm²	0,70 m³/min
		3.94	8.66	.79	1.26	3.31	.99	36.6	.38				115 in²	24.71 cfm
SDB-121	Male G1-1/4 BSP (ISO 228)	130	256	>25	50	2700	750	1000	288	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm²	1,50 m³/min
		5.12	10.08	>.98	1.98	5.92	1.65	61.0	.63				320 in²	52.97 cfm
SDB-122	Male G1-1/4 BSP (ISO 228)	130	366	>25	50	4000	1500	2000	576	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm²	1,50 m³/min
		5.12	14.41	>.98	1.98	8.82	3.31	122.0	1.27				320 in²	52.97 cfm

Characteristics

Combination of air breather and water removal filter

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

While inhaling, Desiccant Air Breathers SDB first dry the air as it passes through the drying agent. The air then passes through a 3µm air filter element to remove any solid contamination particles.

As moisture is absorbed, the drying agent will gradually change from red to orange. When it is orange, replace the drying agent. If required, an optional visual indicator gives an indication of the status of the air breather. With the moisture absorbed, the oxidation process can be decreased and the lifetime of the oil and the entire machinery will be extended.

Desiccant Air Breathers SDB can also be re-fitted with a layer of active carbon (1/3) and a layer of regular drying agent (2/3) for vapor filtration.

Features

- Available in 4 different sizes
- Diameter of Ø100 mm / Ø3.94 in or Ø130 mm / Ø5.12 in
- Refillable with drying agent (non-toxic ZR gel grain) or a mix of drying agent and active carbon
- Replaceable air filter element SGB
- Connection: Male BSP thread (ISO 228) on Stainless Steel tube
- Available with adaptor plate to simplify installation and to enable the use of a visual contamination indicator

Accessories / Spare Parts

Connection adaptor (see page E34 for details)

- for SDB-093 and SDB-096 to be used with visual contamination indicator FM without adaptor plate AP-1:

DBA-75

Adaptor plate (see page E33 for details)

- for SDB-093 and SDB-096:
- for SDB-121 and SDB-122:

AP-1

AP-2

Visual contamination indicator (see page E33 for details)

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

FM

Drying agent refilling material (supplied in air tight container)

- for SDB-093 (300 cm³ / 18.3 in³):

RD-093

- for SDB-096 (600 cm³ / 26.6 in³):

RD-096

- for SDB-121 (1000 cm³ / 61.0 in³):

RD-121

- for SDB-122 (2000 cm³ / 122.0 in³):

RD-122

Active carbon refilling material (supplied in air tight container)

- for SDB-093, SDB-096/2

RC-093/096/121

- and SDB-121 (300 cm³ / 18.3 in³):

RC-122

- for SDB-122 (600 cm³ / 18.3 in³):

RC-122

Please note: Use one layer of active carbon (1/3)

and one layer of regular drying agent (2/3).

Replacement air filter element (sealing included)

- for SDB-093 and SDB-096:

SGB-090-03-B

- for SDB-121 and SDB-122:

SGB-120-03-B

Order Codes

SDB - 122 - RC - AP - FM				
①	②	③	④	⑤
① Type Desiccant Air Breather SDB				
② Max. Water Absorption and Size 86 g / .19 lbs at Ø100 mm / Ø3.94 in 093 172 g / .38 lbs at Ø100 mm / Ø3.94 in 096 288 g / .63 lbs at Ø130 mm / Ø5.12 in 121 576 g / 1.27 lbs at Ø130 mm / Ø5.12 in 122				
Please see table above for further technical details.				
③ Drying Agent Material Regular drying agent (standard option) - One layer of active carbon (1/3) and one layer of regular drying agent (2/3) for vapor filtration RC				
④ Adaptor Plate Without adaptor plate - With adaptor plate AP				
⑤ Contamination Indicator Without contamination indicator - With visual contamination indicator FM (in conjunction with adaptor plate AP only) FM				
Please see page E33 for details.				

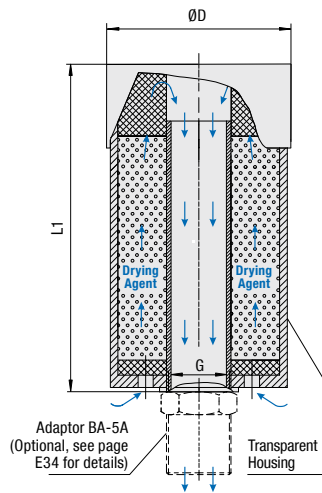
Desiccant Air Breather (Economy Version) ▪ Type SVDB

Drying Agent

Capable in changing colours with increasing moisture



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



Dimensions and Technical Data

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

Characteristics

Combination of air breather and water removal filter

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

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.

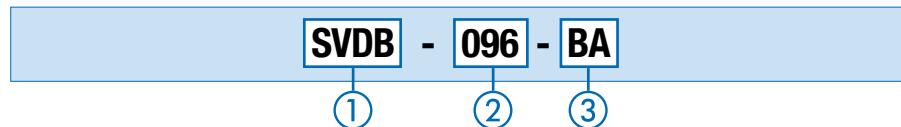
As moisture is absorbed, the drying agent will gradually change from red to orange. When it is orange, replace the entire unit. If required, an optional visual indicator gives an indication of the status of the air breather. With the moisture absorbed, the oxidation process can be decreased and the lifetime of the oil and the entire machinery will be extended.

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

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

Order Codes



① Type

Desiccant Air Breather (Economy Version) **SVDB**

② Max. Water Absorption and Size

86 g / .19 lbs at Ø94 mm / Ø3.70 **093**
172 g / .38 lbs at Ø94 mm / Ø3.70 **096**

Please see table above for further technical details.

③ Connection Adaptor

Without connection adaptor **-**
With connection adaptor BA-5A **BA**

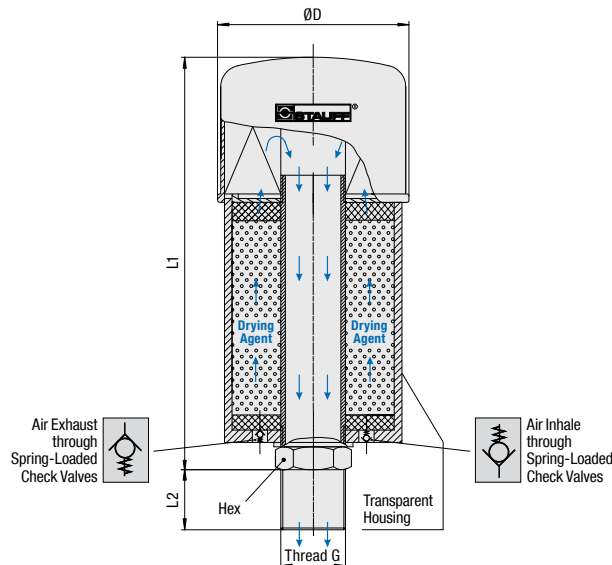
Please see page E34 for details.
Consult STAUFF for alternative adaptors.

Accessories / Spare Parts

Connection adaptor (see page E34 for details)
▪ for all sizes:

BA-5A

Desiccant Air Breather with Check Valves ■ Type SDB-CV



Drying Agent

Capable in changing colours with increasing moisture

ACTIVE

REPLACE

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

Dimensions and Technical Data

Type	Thread G	Dimensions (mm/in)				Weight (g/lbs)		Volume (cm³/in³) Drying Agent	Max. Water Absorption (g/lbs)	Air Filter Elements				
		ØD	L1	L2	Hex	Complete Unit	Drying Agent			Type	Filter 67	Micron Rating	Filter Surface	Max. Air Flow Rate
SDB-061-CV	Female G3/8	68	143	14	22	350	75	100	29	SGB-060-03-B	Synthetic Fibre	3µm	415 cm²	0,05 m³/min
	BSP (ISO 228)	2.68	5.63	.55	.87	.77	.17	6.1	.06				63 in²	1.77 cfm
SDB-096-CV	Male G3/4	100	220	20	32	1500	450	600	172	SGB-090-03-B	Synthetic Fibre	3µm	752 cm²	0,70 m³/min
	BSP (ISO 228)	3.94	8.66	.79	1.26	3.31	.99	36.6	.38				115 in²	24.71 cfm
SDB-121-CV	Male G1-1/4	130	256	>25	50	2700	750	1000	288	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm²	1,50 m³/min
	BSP (ISO 228)	5.12	10.08	>.98	1.98	5.92	1.65	61.0	.63				320 in²	52.97 cfm
SDB-122-CV	Male G1-1/4	130	366	>25	50	4000	1500	2000	576	SGB-120-03-B	Synthetic Fibre	3µm	2095 cm²	1,50 m³/min
	BSP (ISO 228)	5.12	14.41	>.98	1.98	8.82	3.31	122.0	1.27				320 in²	52.97 cfm

Characteristics

Combination of air breather and water removal filter with integrated check valves to increase the lifetime of the desiccant material; particularly suited for gearbox applications

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

While inhaling, Desiccant Air Breathers SDB-CV first dry the air as it passes through the drying agent. The air then passes through a 3 µm air filter element to remove any solid contamination particles.

Thanks to the spring-loaded check valves with an opening pressure of 0,01 bar / .15 PSI, the drying agent will be isolated from the atmosphere unless inhaling or exhaling, which increases the lifetime of the Desiccant Air Breather SDB-CV as well

As moisture is absorbed, the drying agent will gradually change from red to orange. When it is orange, replace the drying agent. If required, an optional visual indicator (not for the SDB-061-CV) gives an indication of the status of the air breather. With the moisture absorbed, the oxidation process can be decreased and the lifetime of the oil and the entire machinery will be extended. Desiccant Air Breathers SDB-CV can also be re-fitted with a layer of active carbon (1/3) and a layer of regular drying agent (2/3) for vapor filtration.

Features

- Available in 4 different sizes with diameter of Ø68 mm / Ø2.68 in, Ø100 mm / Ø3.94 in or Ø130 mm / Ø5.12 in
- Equipped with spring-loaded check valves in opposing directions with an opening pressure of 0,01 bar / .15 PSI
- Refillable with drying agent (non-toxic ZR gel grain) or a mix of drying agent and active carbon
- Replaceable air filter element SGB
- Connection: Male / Female BSP thread (ISO 228)

Please note: Using an Desiccant Air Breather with integrated spring-loaded check valves may cause an under or over pressure of 0,01 bar / .15 PSI inside the system, which does not cause any problems for the majority of gearboxes and reservoirs. In case of doubt, please consult your equipment supplier.

Accessories / Spare Parts

Connection adaptor (see page E34 for details)

- for SDB-061-CV: **BA-5B**

Adaptor plate (see page E33 for details)

- for SDB-096-CV: **AP-1**

- for SDB-121-CV and SDB-122-CV: **AP-2**

Visual contamination indicator (see page E33 for details)

- 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 (100 cm³ / 6.1 in³): **RD-061**

- for SDB-096-CV (600 cm³ / 26.6 in³): **RD-096**

- for SDB-121-CV (1000 cm³ / 61.0 in³): **RD-121**

- for SDB-122-CV (2000 cm³ / 122.0 in³): **RD-122**

Active carbon refilling material (supplied in air tight container)

- for SDB-096-CV and SDB-121-CV (300 cm³ / 18.3 in³): **RC-093/096/121**

- for SDB-122-CV (600 cm³ / 18.3 in³): **RC-122**

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

Replacement air filter element (sealing included)

- for SDB-061-CV: **SGB-060-03-B**

- for SDB-096-CV: **SGB-090-03-B**

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

Order Codes

SDB	-	121	-	CV	-	RC	-	AP	-	FM
①		②		③		④		⑤		⑥

① Type

Desiccant Air Breather **SDB**

② Max. Water Absorption and Size

29 g / .06 lbs at Ø68 mm / Ø2.68 in	061
172 g / .38 lbs at Ø100 mm / Ø3.94 in	096
288 g / .63 lbs at Ø130 mm / Ø5.12 in	121
576 g / 1.27 lbs at Ø130 mm / Ø5.12 in	122

Please see table above for further technical details.

③ Check Valves

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

④ Drying Agent Material

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

⑤ Connection Adaptor

Without connection adaptor **-**
With connection adaptor BA-5B (only for SDB-061-CV) **BA**

Please see page E34 for details.
Consult STAUFF for alternative adaptors.

⑥ Adaptor Plate

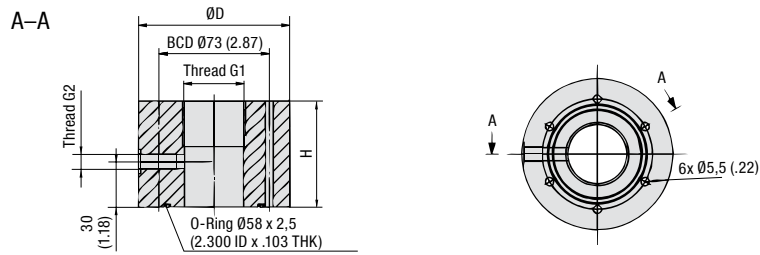
Without adaptor **-**
With adaptor plate (not for SDB-061-CV) **AP**

⑦ Contamination Indicator

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

Please see page E33 for details.

Adaptor Plate - Type AP



Desiccant Air Breather SDB
with Adaptor Plate AP



Order Code and Dimensions

Order Code	Thread G1 (Breather Port)	Thread G2 (Indicator Port)	Dimensions (mm/in)		Socket Cap Screws included	For Use with Desiccant Air Breathers
			H	ØD		
AP-1	Female G3/4 BSP (ISO 228)	Female 1/8 NPT (ANSI B1.20.1)	50	88	M5 x 60 - 8.8 (Steel, zinc-plated)	SDB-093 SDB-096
			1.98	3.46		
AP-2	Female G1-1/4 BSP (ISO 228)	Female 1/8 NPT (ANSI B1.20.1)	70	100	M5 x 80 - 8.8 (Steel, zinc-plated)	SDB-121 SDB-122 SDB-121-CV SDB-122-CV
			2.76	3.94		

Characteristics

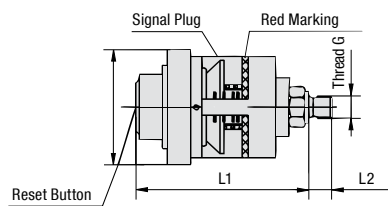
Designed to simplify the installation of Desiccant Air Breathers and enable the use of a visual contamination indicator

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

They are also equipped with a female 1/8 NPT thread (ANSI B1.20.1) 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.

Visual Contamination Indicator - Type FM



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



Order Code and Dimensions

Order Code	Thread G	Dimensions (mm/in)	
		L1	L2
FM	Male 1/8 NPT (ANSI B1.20.1)	75	10
		2.54	.39

Materials

- Housing made of Polycarbonate

Technical Data

- Operating temperature range:
-40 °C ... +121 °F (-40 °F ... +250 °F)
- Accuracy: ±10% at red marking

Characteristics

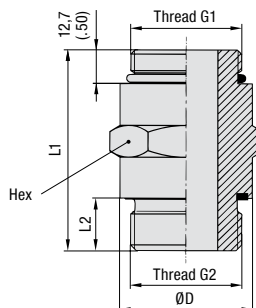
Designed to indicate the status of air filter elements

Visual Contamination Indicators FM – the so-called Filter Minders® – are connected to the female 1/8 NPT thread (ANSI B1.20.1) 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.

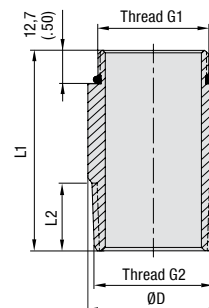
Visual Contamination Indicators FM can be reset afterwards.

Consult STAUFF for alternative types of monitoring devices (such as Graduated Switch Indicators FME, etc.).

Threaded Breather Adaptor Type TBA (Steel)



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



TBA-075
TBA-120
TBA-125

Characteristics

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

Features

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

Materials

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

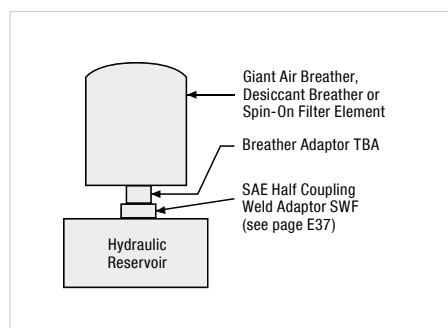
Consult STAUFF for alternative materials.

Order Codes and Dimensions

Order Code	Thread G1	Thread G2	Dimensions (mm/in)				For Use with ...*
			L1	L2	ØD	Hex	
TBA-038-B	Male G3/8 BSP (ISO 228)	Male G3/8 BSP (ISO 228)	43	11	21,9	22	Giant Air Breathers SGB-060
			1.69	.43	.86	.86	
TBA-075	Male 1-12 UNF (ANSI B1.1)	Male 3/4 NPT (ANSI B1.20.1)	51	20	27		Spin-On Series SF 6500
			2.00	.79	1.05		
TBA-075-B	Male G3/4 BSP (ISO 228)	Male G3/4 BSP (ISO 228)	57	16	32	32	Giant Air Breathers SGB-090 Desiccant Air Breathers SVDB-093 Desiccant Air Breathers SVDB-096 Spin-On Series SF 35 Spin-On Series SF 36
			2.24	.63	1.26	1.26	
TBA-120	Male G1-1/4 BSP (ISO 228)	Male 1-1/4 NPT (ANSI B1.20.1)	76	22	42		Giant Air Breathers SGB-120 Spin-On Series SF 57 Spin-On Series SF 58
			3.00	.88	1.65		
TBA-125	Male 1-1/2-16 UN (ANSI B1.1)	Male 1-1/4 NPT (ANSI B1.20.1)	76	26	45		Spin-On Series SF 6600 Spin-On Series SF 6700
			3.00	1.01	1.77		
TBA-125-B	Male G1-1/4 BSP (ISO 228)	Male G1-1/4 BSP (ISO 228)	76	20	50	50	Giant Air Breathers SGB-120 Spin-On Series SF 57 Spin-On Series SF 58
			3.00	.79	1.97	1.97	

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

Application Example



Threaded Breather Adaptor Type BA-5 (Polyamide)

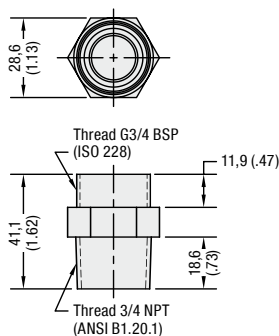
Characteristics

Features

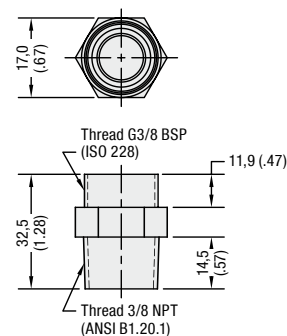
- BA-5B suitable for SGB-060-03-B and SDB-061-CV
- BA-5A suitable for SGB-090-03-B, SVDB-093 and SVDB-096
- Equipped with hex to simplify installation

Materials

- Adaptor made of Polyamide



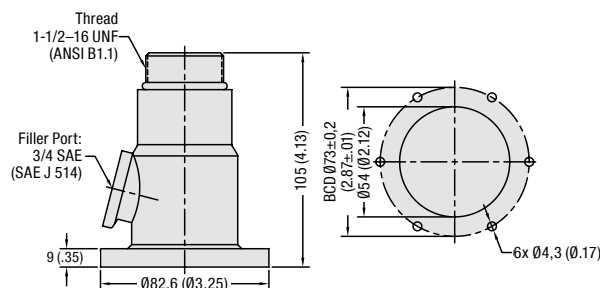
Order Code: BA-5A



Order Code: BA-5B

Dimensional drawings: All dimensions in mm (in).

Breather Adaptor with Filler Port Type BA-6 (Aluminium)



Order Code: BA-6

Characteristics

Features

- For use with Spin-On Series SF6600 and SF6700
- Equipped with female 3/4 SAE O-Ring Fluid Filler Port
- Can be used with baskets S080, S150, S200 and S095P

Materials

- Adaptor made of Aluminium

Installation

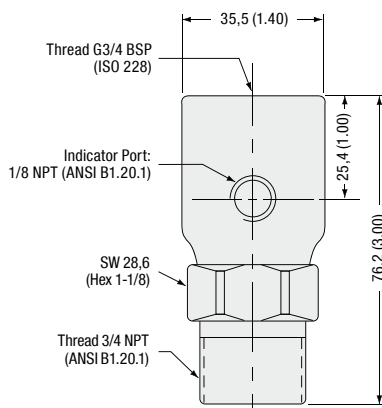
- Six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2
- Supplied with O-ring, gasket and mounting hardware



Application Example



Threaded Breather Adaptor Type DBA-75 (Aluminium)



Order Code: DBA-75

Characteristics

Features

- For use with Desiccant Air Breathers SDB-093, SDB-096 and SDB-096-CV
- Equipped with female 1/8 NPT (ANSI B1.20.1) port for Visual Contamination Indicators FM (Filter Minder®)
- Equipped with hex to simplify installation

Materials

- Adaptor made of Aluminium (Black Anodized)



Application Example



Bayonet Breather Adaptor Type BA-1 (Aluminium)

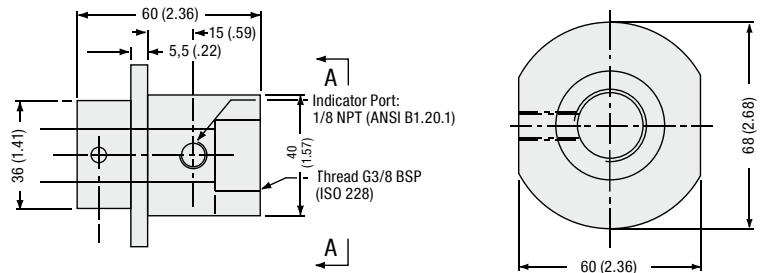
Characteristics

Features

- For use with Desiccant Air Breathers SDB-093, SDB-096 and SDB-096-CV
- Equipped with female 1/8 NPT (ANSI B1.20.1) port for Visual Contamination Indicators FM (Filter Minder®)

Materials

- Adaptor made of Aluminium (black-anodized)
- Sealings made of NBR (Buna-N®)



Order Code: BA-1

Bayonet Breather Adaptor Type BA-2 (Aluminium)

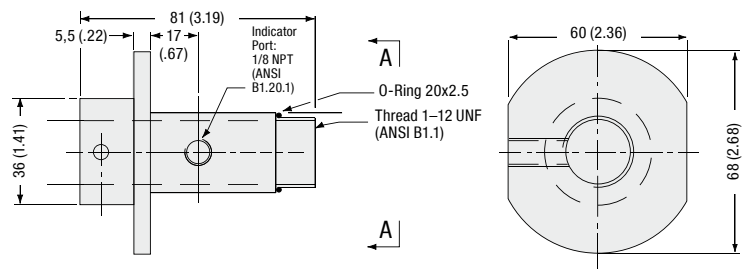
Characteristics

Features

- For use with Spin-On Filter Elements, series SF-6500
- Equipped with female 1/8 NPT (ANSI B1.20.1) port for Visual Contamination Indicators FM (Filter Minder®)

Materials

- Adaptor made of Aluminium (Black Anodized)
- Sealings made of NBR (Buna-N®)



Order Code: BA-2

Bayonet Breather Adaptor Type BA-3 (Aluminium)

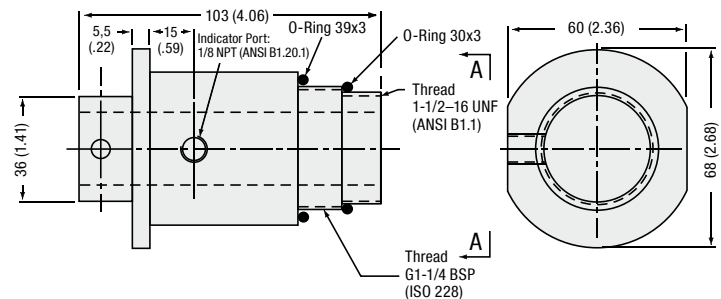
Characteristics

Features

- For use with Giant Air Breathers SGB-120 and Spin-On Filter Elements, series SF-6600 and SF-6700
- Equipped with female 1/8 NPT (ANSI B1.20.1) port for Visual Contamination Indicators FM (Filter Minder®)

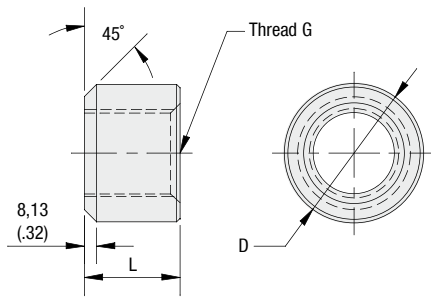
Materials

- Adaptor made of Aluminium (Black Anodized)
- Sealings made of NBR (Buna-N®)



Order Code: BA-3

SAE Half Coupling Weld Adaptor Type SWF



Order Code and Dimensions

Order Code	Thread G	Dimensions (mm/in)	
		ØD	L
SWF - 06	9/16-18 UNF	22	17,7
		.87	.70
SWF - 08	3/4-16 UNF	28,5	21,6
		1.12	.85
SWF - 10	7/8-14 UNF	34,9	24,1
		1.37	.95
SWF - 12	1-1/16-12 UNF	37,9	24,1
		1.49	.95
SWF - 16	1-5/16-12 UNF	41,2	27,9
		1.62	1.10
SWF - 20	1-5/8-12 UNF	62,9	27,9
		2.48	1.10
SWF - 24	1-7/8-12 UNF	63,5	27,9
		2.50	1.10
SWF - 32	2-1/2-12 UNF	76,2	30,4
		3.00	1.20

Characteristics

Used for a leak-free weld installation of breathers and breather adaptors with SAE O-ring thread

Features

- Equipped with female SAE O-ring thread as per SAE J514
- Designed for minimum weld distortion
- Pilot minimised installation setup
- Labor and time saving

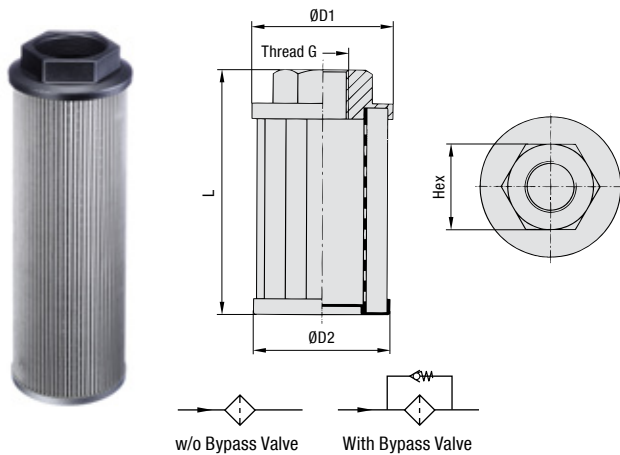
Consult STAUFF for custom adaptors.

Materials

- Weld Flange made of Forged Steel

Consult STAUFF for alternative materials.

Suction Strainer ▪ Type SUS (Polyamide End Cap)



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) or female BSP thread (ISO 228)
- 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

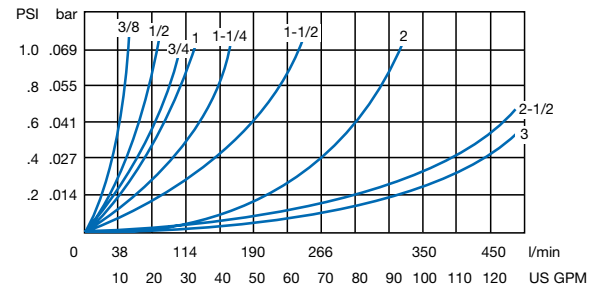
- Threaded end cap made of glass-fibre reinforced Polyamide (PA); see page E39 for version with Aluminium end cap
- Lower end cap and support tube made of Steel, zinc-plated
- Standard filter material is Stainless Steel Mesh (125 µm); alternative micron ratings of 60 µm and 250 µm on request

Consult STAUFF for alternative materials.

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.



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

Special sizes, designs, materials and configurations are available on request. Consult STAUFF for details.

Dimensions and Technical Data (Female NPT Threaded Version)

Group Size	Thread G	Dimensions (mm/in)				Filter Surface	Max. Flow Rate
		ØD1	ØD2	L	Hex		
050 - N06F - 067	3/8 NPT	50	49	67	26	296 cm ²	12 l/min
		1.97	1.93	2.64	1.02	46 in ²	3.1 US GPM
050 - N06F - 090	3/8 NPT	50	49	90	26	430 cm ²	12 l/min
		1.97	1.93	3.54	1.02	67 in ²	3.1 US GPM
050 - N08F - 105	1/2 NPT	50	49	105	26	518 cm ²	15 l/min
		1.97	1.93	4.13	1.02	80 in ²	3.9 US GPM
068 - N12F - 105	3/4 NPT	68	66	105	34	676 cm ²	25 l/min
		2.68	2.60	4.13	1.34	105 in ²	6.5 US GPM
068 - N16F - 140	1 NPT	68	66	140	42	930 cm ²	50 l/min
		2.68	2.60	5.51	1.65	144 in ²	13.0 US GPM
088 - N20F - 140	1-1/4 NPT	88	85	140	50	1172 cm ²	65 l/min
		3.46	3.35	5.51	1.97	182 in ²	16.9 US GPM
088 - N24F - 140	1-1/2 NPT	88	85	140	60	1172 cm ²	140 l/min
		3.46	3.35	5.51	2.36	182 in ²	36.4 US GPM
102 - N24F - 200	1-1/2 NPT	102	100	200	72	2427 cm ²	140 l/min
		4.02	3.94	7.87	2.83	376 in ²	36.4 US GPM
102 - N32F - 260	2 NPT	102	100	260	72	3249 cm ²	230 l/min
		4.02	3.94	10.24	2.83	504 in ²	59.8 US GPM
131 - N40F - 212	2-1/2 NPT	131	128	212	86	2748 cm ²	340 l/min
		5.16	5.04	8.35	3.39	426 in ²	88.4 US GPM
131 - N48F - 272	3 NPT	131	128	272	96	3626 cm ²	400 l/min
		5.16	5.04	10.71	3.78	562 in ²	104 US GPM

See page E39 for version with Polyamide (PA) end cap.

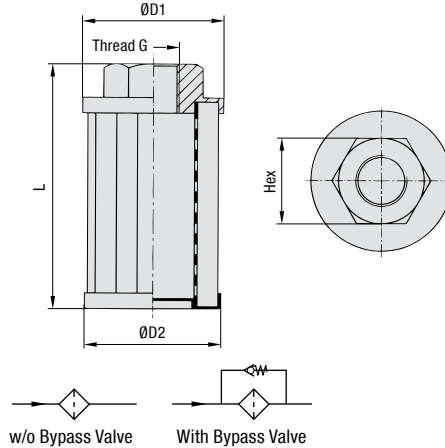
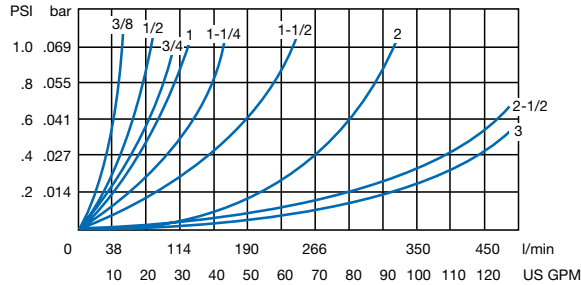
Dimensions and Technical Data (Female BSP Threaded Version)

Group Size	Thread G	Dimensions (mm/in)				Filter Surface	Max. Flow Rate
		ØD1	ØD2	L	Hex		
040 - B06F - 075	G3/8 BSP	39,5	38,5	75	22	279 cm ²	12 l/min
		1.56	1.53	2.93	.87	43 in ²	3.1 US GPM
050 - B06F - 067	G3/8 BSP	50	49	67	26	296 cm ²	12 l/min
		1.97	1.93	2.64	1.02	46 in ²	3.1 US GPM
050 - B08F - 105	G1/2 BSP	50	49	105	26	518 cm ²	15 l/min
		1.97	1.93	4.13	1.02	80 in ²	3.9 US GPM
068 - B12F - 105	G3/4 BSP	68	66	105	34	676 cm ²	25 l/min
		2.68	2.60	4.13	1.34	105 in ²	6.5 US GPM
068 - B16F - 140	G1 BSP	68	66	140	42	930 cm ²	50 l/min
		2.68	2.60	5.51	1.65	144 in ²	13.0 US GPM
088 - B20F - 140	G1-1/4 BSP	88	85	140	50	1172 cm ²	65 l/min
		3.46	3.35	5.51	1.97	182 in ²	16.9 US GPM
088 - B24F - 140	G1-1/2 BSP	88	85	140	60	1172 cm ²	140 l/min
		3.46	3.35	5.51	2.36	182 in ²	36.4 US GPM
102 - B24F - 200	G1-1/2 BSP	102	100	200	72	2427 cm ²	140 l/min
		4.02	3.94	7.87	2.83	376 in ²	36.4 US GPM
102 - B32F - 200	G2 BSP	102	100	200	72	2427 cm ²	230 l/min
		4.02	3.94	7.87	2.83	376 in ²	59.8 US GPM
102 - B32F - 225	G2 BSP	102	100	225	72	2811 cm ²	230 l/min
		4.02	3.94	8.86	2.83	436 in ²	59.8 US GPM
102 - B32F - 260	G2 BSP	102	100	260	72	3249 cm ²	230 l/min
		4.02	3.94	10.24	2.83	504 in ²	59.8 US GPM
102 - B32F - 300	G2 BSP	102	100	300	72	3798 cm ²	230 l/min
		4.02	3.94	11.81	2.83	589 in ²	59.8 US GPM
131 - B40F - 191	G2-1/2 BSP	131	128	191	86	2430 cm ²	340 l/min
		5.16	5.04	10.24	3.39	377 in ²	88.4 US GPM
131 - B40F - 212	G2-1/2 BSP	131	128	212	86	2748 cm ²	340 l/min
		5.16	5.04	8.35	3.39	426 in ²	88.4 US GPM
131 - B48F - 272	G3 BSP	131	128	272	96	3626 cm ²	400 l/min
		5.16	5.04	10.71	3.78	562 in ²	104 US GPM
150 - B32F - 151	G2 BSP	150	145	151	70	1812 cm ²	400 l/min
		5.91	5.71	5.94	2.76	281 in ²	104 US GPM

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.



Suction Strainers • Type SUS (Aluminium End Cap)

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 E38 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

Consult STAUFF for alternative materials.

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

Special sizes, designs, materials and configurations are available on request. Consult STAUFF for details.

Dimensions and Technical Data (Female NPT Threaded Version)

Group Size	Thread G	Dimensions (mm/in)				Filter Surface	Max. Flow Rate
		ØD1	ØD2	L	Hex		
050 - N06F - 067	3/8 NPT	50	49	67	26	296 cm ²	12 l/min
		1.97	1.93	2.64	1.02	46 in ²	3.1 US GPM
050 - N06F - 090	3/8 NPT	50	49	90	26	430 cm ²	12 l/min
		1.97	1.93	3.54	1.02	67 in ²	3.1 US GPM
050 - N08F - 105	1/2 NPT	50	49	105	26	518 cm ²	15 l/min
		1.97	1.93	4.13	1.02	80 in ²	3.9 US GPM
068 - N12F - 105	3/4 NPT	68	66	105	34	676 cm ²	25 l/min
		2.68	2.60	4.13	1.34	105 in ²	6.5 US GPM
068 - N16F - 140	1 NPT	68	66	140	42	930 cm ²	50 l/min
		2.68	2.60	5.51	1.65	144 in ²	13.0 US GPM
088 - N20F - 195	1-1/4 NPT	88	85	195	60	1709 cm ²	65 l/min
		3.46	3.35	7.68	2.36	265 in ²	16.9 US GPM
088 - N24F - 226	1-1/2 NPT	88	85	226	60	2012 cm ²	140 l/min
		3.46	3.35	8.90	2.36	312 in ²	36.4 US GPM
088 - N24F - 260	1-1/2 NPT	88	85	260	60	2344 cm ²	140 l/min
		3.46	3.35	10.24	2.36	363 in ²	36.4 US GPM
088 - N32F - 260	2 NPT	88	85	260	70	2344 cm ²	230 l/min
		3.46	3.35	10.24	2.76	363 in ²	59.8 US GPM
150 - N40F - 213	2-1/2 NPT	150	145	213	90	2741 cm ²	340 l/min
		5.91	5.71	8.39	3.54	425 in ²	88.4 US GPM
150 - N48F - 272	3 NPT	150	145	272	100	3625 cm ²	400 l/min
		5.91	5.71	10.71	3.94	562 in ²	104 US GPM

See page E38 for version with Aluminium end cap.

Order Codes

SUS	-	A	-	088 - N24F - 226	-	125	-	0
①		②		③		④		⑤

① Type

Suction Strainer for direct installation into suction lines of pumps

SUS

② Material of Threaded End Cap

Glass-fibre reinforced Polyamide

P

Aluminium (for female NPT threaded version only)

A

③ 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. 088-N24F-226).

④ Filter Material / Micron Rating

Stainless Steel Mesh, 125 µm (standard option)

125

Stainless Steel Mesh, 60 µm

060

Stainless Steel Mesh, 250 µm

250

Consult STAUFF for alternative materials / micron ratings.

⑤ Bypass Option

Without bypass valve (standard option)

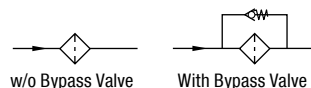
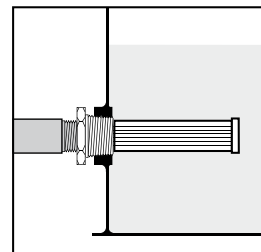
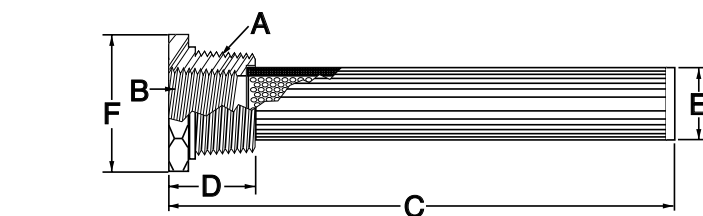
0

Integrated bypass valve with opening pressure of 0,2 bar (3PSI)

3

Suction Strainer ▪ Type TMF (NPT Tank Mounted)

Mounting Information



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

- Equipped with female and male NPT thread (ANSI B1.20.1)
- Operating temperature up to +120 °C / +250 °F

Consult STAUFF for custom adaptors.

Media Compatibility

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

Materials

- Threaded end cap made of Cast Iron
- Standard filter material is Stainless Steel Mesh (125 µm); alternative micron ratings on request

Consult STAUFF for alternative materials.

Options

- Integrated bypass valve with an opening pressure of 0,35 bar (5 PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids

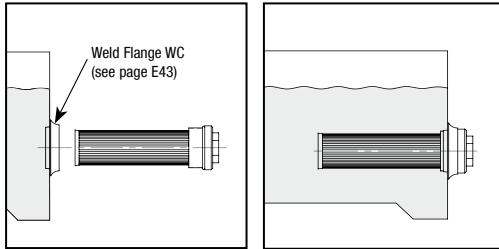
Special sizes, designs, materials and configurations are available on request. Consult STAUFF for details.

Order Codes, Dimensions and Technical Data

Order Codes		Thread A	Thread B	Dimensions (mm/in)				Filter Surface	Max. Flow Rate
w/o Bypass	Bypass 0,35 bar / 5 PSI			C	D	E	Hex F		
TMF - 03 - 0	TMF - 03 - 5	3/4 NPT	1/2 NPT	102	25	22	27	258 cm ²	19 l/min
				4.02	0.98	0.87	1.06	40 in ²	5 US GPM
TMF - 05 - 0	TMF - 05 - 5	1 NPT	1/2 NPT	135	27	29	41	258 cm ²	19 l/min
				5.31	1.06	1.14	1.61	40 in ²	5 US GPM
TMF - 10 - 0	TMF - 10 - 5	1-1/4 NPT	3/4 NPT	207	30	34	46	432 cm ²	38 l/min
				8.15	1.18	1.34	1.81	67 in ²	10 US GPM
TMF - 15 - 0	TMF - 15 - 5	1-1/2 NPT	1 NPT	208	31	42	55	554 cm ²	57 l/min
				8.19	1.22	1.65	2.17	86 in ²	15 US GPM
TMF - 25 - 0	TMF - 25 - 5	2 NPT	1-1/4 NPT	230	35	54	65	1025 cm ²	95 l/min
				9.06	1.38	2.13	2.56	159 in ²	25 US GPM
TMF - 50 - 0	TMF - 50 - 5	3 NPT	2 NPT	246	44	76	84	1625 cm ²	189 l/min
				9.69	1.73	2.99	3.31	252 in ²	50 US GPM
TMF - 100 - 0	TMF - 100 - 5	4 NPT	3 NPT	287	46	101	120	2032 cm ²	378 l/min
				11.30	1.81	3.98	4.72	315 in ²	100 US GPM

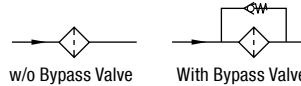
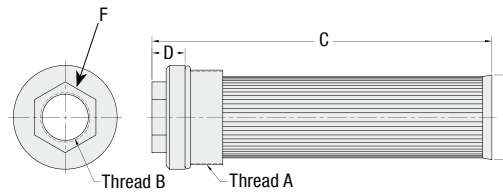
Suction Strainers - Type TMF (SAE O-Ring Tank Mounted)

Mounting Information



1. Weld Flange to Tank.

2. Screw Strainer into Tank.



Order Codes, Dimensions and Technical Data

Order Codes		Thread A	Thread B	Dimensions (mm/in)				Filter Surface	Max. Flow Rate
w/o Bypass	Bypass 0,35 bar / 5 PSI			C	D	E	Hex F		
TMF - 1625 - 0 - 0	TMF - 1625 - 0 - 5	2-1/2-12 UNF	1-5/16-12 UNF	229	19	58	54	580 cm ²	34 l/min
				9.02	.75	2.28	2.13	90 in ²	9 US GPM
TMF - 2025 - 0 - 0	TMF - 2025 - 0 - 5	2-1/2-12 UNF	1-5/8-12 UNF	229	19	58	54	580 cm ²	53 l/min
				9.02	.75	2.28	2.13	90 in ²	14 US GPM
TMF - 1834 - 0 - 0	TMF - 1834 - 0 - 5	3-3/8-12 UNF	1-7/8-12 UNF	224	23	80	64	1484 cm ²	80 l/min
				8.82	.91	3.15	2.52	230 in ²	21 US GPM
TMF - 2534 - 0 - 0	TMF - 2534 - 0 - 5	3-3/8-12 UNF	2-1/2-12 UNF	234	25	80	76	1484 cm ²	148 l/min
				9.29	.98	3.15	2.99	230 in ²	39 US GPM

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

- Equipped with female and male SAE O-ring thread as per SAE J514 for leak-free installation (O-ring included)
- Weld Flange WC supplied separately (see page E41)
- Operating temperature up to +100 °C / +212 °F

Consult STAUFF for custom adaptors.

Media Compatibility

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

Materials

- Threaded end cap made of Cast Iron
- O-ring made of NBR (Buna-N®)
- Standard filter material is Stainless Steel Mesh (125 µm); alternative micron ratings on request

Consult STAUFF for alternative materials.

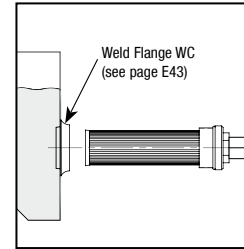
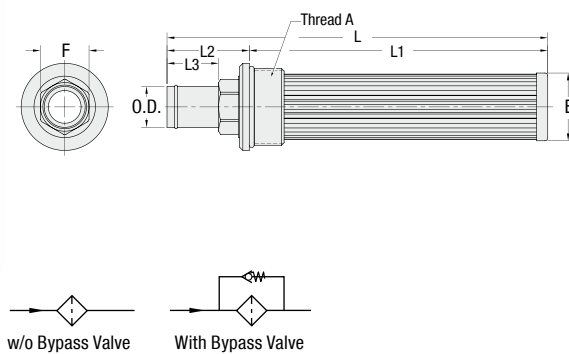
Options

- Integrated bypass valve with an opening pressure of 0,35 bar (5 PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids

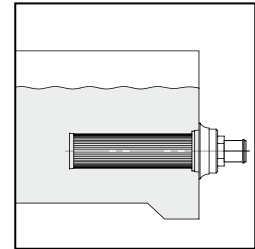
Special sizes, designs, materials and configurations are available on request.
Consult STAUFF for details.

Suction Strainer ▪ Type TMF (Hose Barb Tank Mounted)

Mounting Information



1. Weld Flange to Tank.



2. Screw Strainer into Tank.

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

- Equipped with male SAE O-ring thread as per SAE J514 for leak-free installation (O-ring included)
- Hose barb connection up to 2 in
- Weld Flange WC supplied separately (see page E41)
- Operating temperature up to +100 °C / +212 °F

Consult STAUFF for custom adaptors.

Media Compatibility

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

Materials

- Threaded end cap made of Steel, zinc plated
- O-ring made of NBR (Buna-N®)
- Standard filter material is Stainless Steel Mesh (125 µm); alternative micron ratings on request

Consult STAUFF for alternative materials.

Options

- Integrated bypass valve with an opening pressure of 0,35 bar (5 PSI) to reduce the risks of high-pressure drops that can be caused by contaminated strainer elements or high-viscosity fluids

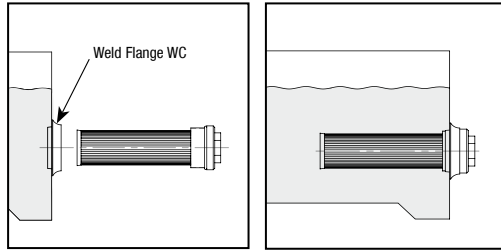
Special sizes, designs, materials and configurations are available on request.
Consult STAUFF for details.

Order Codes, Dimensions and Technical Data

Order Codes		Thread A	Dimensions (mm/in)						
w/o Bypass	Bypass 0,35 bar / 5 PSI		O.D.	L	L1	L2	L3	E	Hex F
TMF - 1017HB - 0 - 0	TMF - 1017HB - 0 - 5	1-7/8-12 UNF	25,4	236	182	51	32	42	32
			1.00	9.29	7.17	2.01	1.26	1.65	1.26
TMF - 1225HB - 0 - 0	TMF - 1225HB - 0 - 5	2-1/2-12 UNF	31,8	254	203	51	32	54	38
			1.25	10.00	7.99	2.01	1.26	2.13	1.50
TMF - 1234HB - 0 - 0	TMF - 1234HB - 0 - 5	3-3/8-12 UNF	31,8	261	198	64	38	82	51
			1.25	10.28	7.80	2.52	1.50	3.23	2.01
TMF - 1534HB - 0 - 0	TMF - 1534HB - 0 - 5	3-3/8-12 UNF	38,1	261	198	64	38	82	51
			1.50	10.28	7.80	2.52	1.50	3.23	2.01
TMF - 2034HB - 0 - 0	TMF - 2034HB - 0 - 5	3-3/8-12 UNF	50,8	274	199	76	51	82	63
			2.00	10.79	7.83	2.99	2.01	3.23	2.48

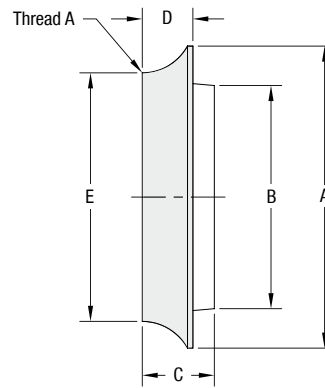
Weld Flange ▪ Type WC

Mounting Information



1. Weld Flange to Tank.

2. Screw Strainer into Tank.



Order Codes, Dimensions and Technical Data

Order Codes w/o Bypass	Thread A	Dimensions (mm/in)				
		A	B	C	D	E
WC - 1017	1-7/8-12 UNF	76	57	19	13	60
		2.99	2.24	.75	.51	2.36
WC - 1225	2-1/2-12 UNF	89	52	21	15	73
		3.50	2.05	.83	.59	2.87
WS - 1634	3-3/8-12 UNF	118	93	25	21	100
		4.65	3.66	.98	.83	3.94

Characteristics

Used for a leak-free weld installation of tank mounted suction strainers with SAE O-ring thread

Features

- Equipped with female SAE O-ring thread as per SAE J514
- Designed for minimum weld distortion
- Pilot minimised installation setup
- Labor and time saving

Consult STAUFF for custom adaptors.

Materials

- Weld Flange made of Forged Steel

Consult STAUFF for alternative materials.

Suction Flanges ■ Type SF

Characteristics

Designed to seal suction lines passing through the top plate of the hydraulic reservoir and thus allowing access for easy inspection, cleaning and removal of suction elements

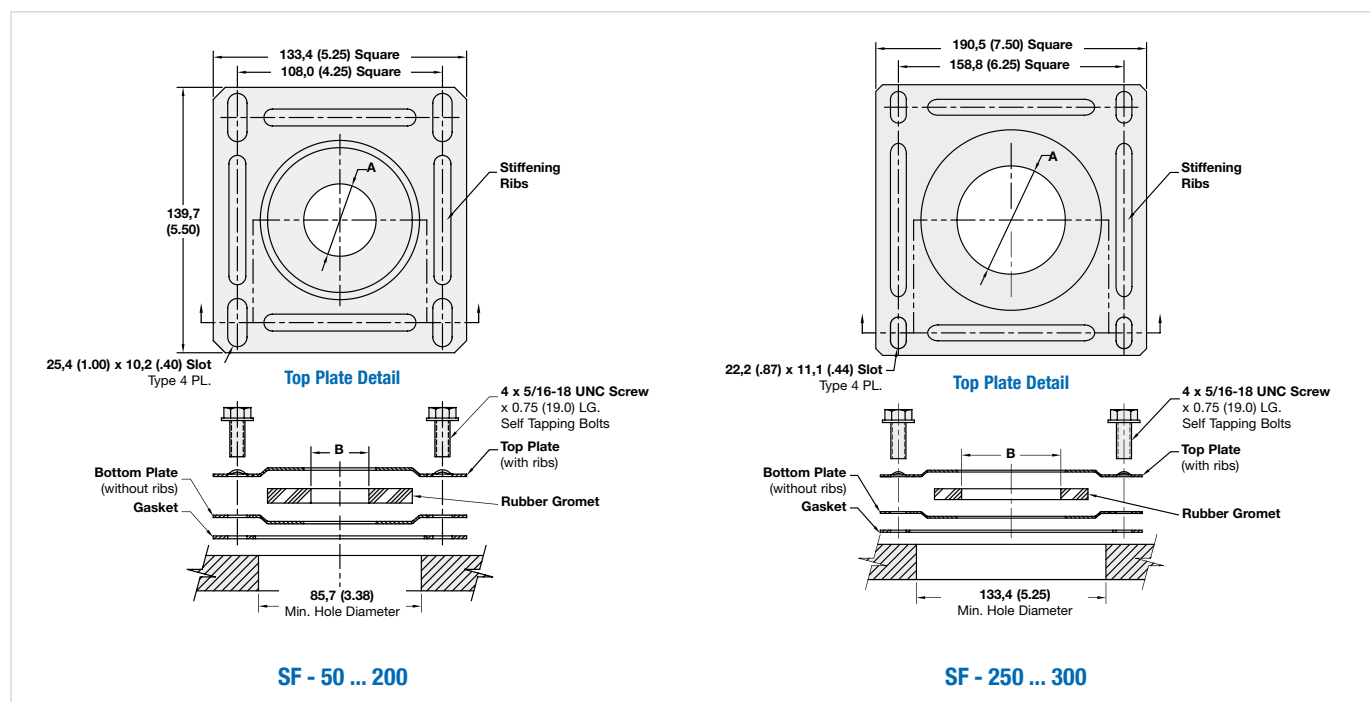
Scope of Delivery / Materials

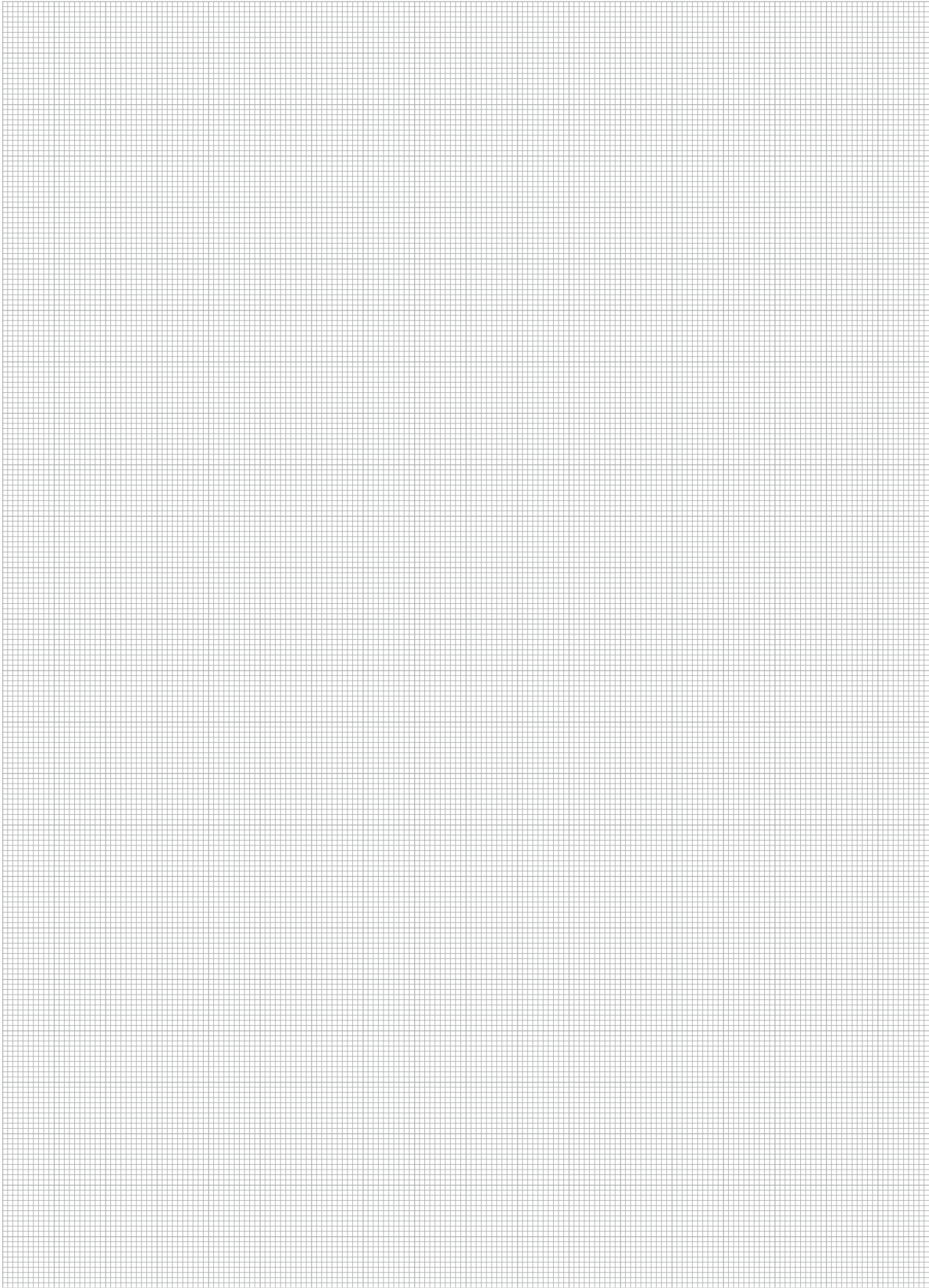
- 1 top plate made of Steel
- 1 bottom plate made of Steel
- 1 seal plate / gasket made of treated paper
- 1 rubber grommet made of NBR (Buna-N®)
- 4 thread forming screws (UNC 5/16-18)

Order Codes

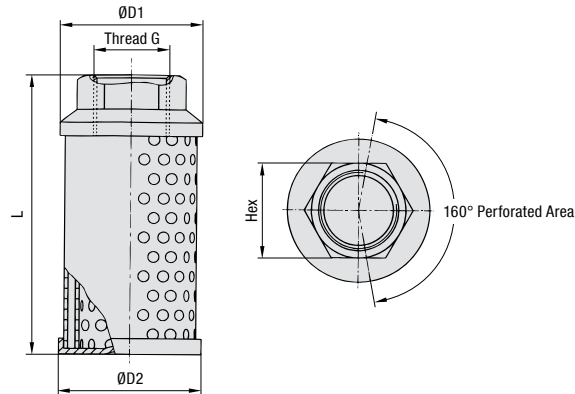
Order Code	Nominal Bore (in)	Dimensions (mm/in)	
		A	B
SF - 050	1/2	38,1 1.50	20 .79
SF - 075	3/4	38,1 1.50	25 .98
SF - 100	1	38,1 1.50	30 1.18
SF - 125	1-1/4	50,8 2.00	41 1.61
SF - 150	1-1/2	50,8 2.00	46 1.81
SF - 200	2	50,8 2.50	58 2.28
SF - 250	2-1/2	76,2 3.00	70 2.76
SF - 300	3	95,3 3.75	89 3.50

Dimensions



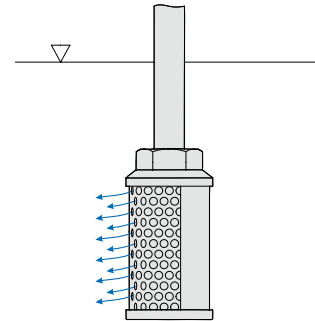


Diffuser - Type SRV



Installation

Installation below the minimum fluid level of the reservoir with the plain area facing the pump inlet



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) or female NPT thread (ANSI B1.20.1)
- 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. Consult STAUFF for details.



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

For details, please see **Filtration Technology** section of this catalogue.

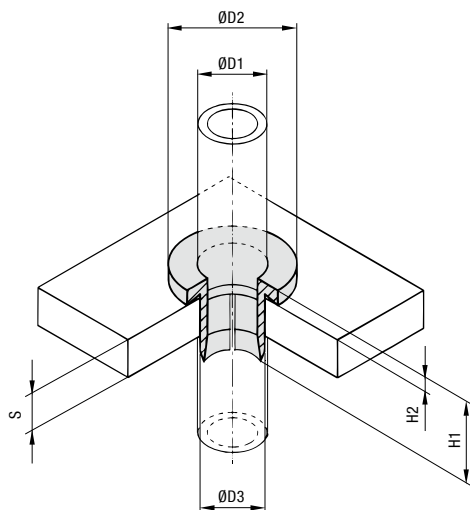
Dimensions and Order Codes (Female NPT Threaded Version)

Order Code	Thread G	Dimensions (mm/in)				Max. Flow Rate
		ØD1	ØD2	L	Hex	
SRV - 050 - N12	3/4 NPT	64	60	109	36	50 l/min
		2.52	2.36	4.29	1.42	13 US GPM
SRV - 114 - N16	1 NPT	64	60	139	46	114 l/min
		2.52	2.36	5.47	1.81	30 US GPM
SRV - 200 - N20	1-1/4 NPT	86	82	139	60	200 l/min
		3.39	3.23	5.47	2.36	52 US GPM
SRV - 227 - N24	1-1/2 NPT	86	82	200	60	227 l/min
		3.39	3.23	7.87	2.36	59 US GPM
SRV - 454 - N32	2 NPT	86	82	260	70	454 l/min
		3.39	3.23	10.24	2.76	118 US GPM
SRV - 650 - N40	2-1/2 NPT	150	145	211	90	650 l/min
		5.91	5.71	8.31	3.54	169 US GPM
SRV - 950 - N48	3 NPT	150	145	272	100	950 l/min
		5.91	5.71	10.71	3.94	247 US GPM

Dimensions and Order Codes (Female BSP Threaded Version)

Order Code	Thread G	Dimensions (mm/in)				Max. Flow Rate
		ØD1	ØD2	L	Hex	
SRV - 050 - B12	G3/4	64	60	109	36	50 l/min
		2.52	2.36	4.29	1.42	13 US GPM
SRV - 114 - B16	G1	64	60	139	46	114 l/min
		2.52	2.36	5.47	1.81	30 US GPM
SRV - 200 - B20	G1-1/4	86	82	139	60	200 l/min
		3.39	3.23	5.47	2.36	52 US GPM
SRV - 227 - B24	G1-1/2	86	82	200	60	227 l/min
		3.39	3.23	7.87	2.36	59 US GPM
SRV - 454 - B32	G2	86	82	260	70	454 l/min
		3.39	3.23	10.24	2.76	118 US GPM
SRV - 650 - B40	G2-1/2	150	145	211	90	650 l/min
		5.91	5.71	8.31	3.54	169 US GPM
SRV - 950 - B48	G3	150	145	272	100	950 l/min
		5.91	5.71	10.71	3.94	247 US GPM

Return Line Bushing ▪ Type SRF



Dimensions

Outside Diameter ØD1 (mm)	(in)	Nominal Bore (in)	Dimensions (mm/in)			Wall Thickness (mm/in)		Mounting Bore (mm/in)
			ØD2	H1	H2	S		ØD3
6	1/4		18 .71	22 .87	4 .16	4 ... 12 .1647		10 .39
8	5/16		20 .79	22 .87	4 .16	4 ... 12 .1647		12 .47
10	3/8	1/8 Pipe 1/4 Copper Tube	22 .87	22 .87	4 .16	4 ... 12 .1647		14 .55
12	1/2	3/8 Copper Tube	24 .94	22 .87	4 .16	4 ... 12 .1647		16 .63
14		1/4 Pipe	26 1.02	22 .87	4 .16	4 ... 12 .1647		18 .71
15			28 1.10	22 .87	4 .16	4 ... 12 .1647		20 .79
16	5/8	1/2 Copper Tube	28 1.10	22 .87	4 .16	4 ... 12 .1647		20 .79
17		3/8 Pipe	30 1.18	22 .87	4 .16	4 ... 12 .1647		22 .87
20	3/4		32 1.26	22 .87	4 .16	4 ... 12 .1647		24 .94
22	7/8	3/4 Copper Tube	34 1.34	22 .87	4 .16	4 ... 12 .1647		26 1.02
25	1		38 1.50	22 .87	4 .16	4 ... 12 .1647		30 1.18
28		1 Copper Tube	41 1.61	22 .87	4 .16	4 ... 12 .1647		33 1.30
30			43 1.69	22 .87	4 .16	4 ... 12 .1647		34 1.39
35		1-1/4 Copper Tube	48 1.89	22 .87	4 .16	4 ... 12 .1647		40 1.57
38	1-1/2		51 2.01	22 .87	4 .16	4 ... 12 .1647		43 1.70
42		1-1/4 Pipe 1-1/2 Copper Tube	55 2.17	22 .87	4 .16	4 ... 12 .1647		47 1.85

Characteristics

Designed as tubular support, vibration and noise absorber and protection element for rigid return lines entering the hydraulic reservoir

Features

- For all commonly available Metric and imperial pipe and tube diameters from 6 ... 42 mm and 1/4 ... 1-1/2 in
- Oil-tight and dust-proof sealing
- Simple assembly: Insert the bushing in to the bore hole and the install the lubricated pipe into the bushing
- Chemically resistant against oil and solvents

Media Compatibility

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

Materials

- Bushing made of Polypropylene (PP) or Thermoplastic Elastomer (TPE) with a hardness degree of 87 Shore-A

Consult STAUFF for alternative materials.

Order Codes

SRF - 20 - SA

①

②

③

① Type

Return Line Bushing **SRF**

② Pipe / Tube Diameter

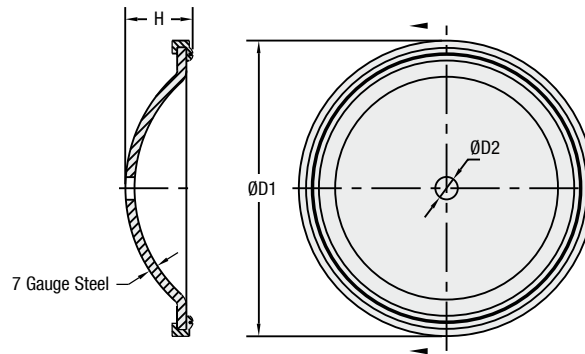
Outside diameter pipe / tube ØD1 in mm (according to dimension table) **20**

③ Material

Polypropylene (PP) in natural colour **PP**
Thermoplastic Elastomer (TPE) in black colour **SA**

Consult STAUFF for alternative materials.

Reservoir End Covers ▪ Type EC



Characteristics

Materials

- End cover made of 7 Gauge Steel (pickled and oiled); Stainless Steel available on request
- Double lip gasket (one-piece, molded) made of NBR (Buna-N®)
- Crush washer made of Polyamide (PA)

Options

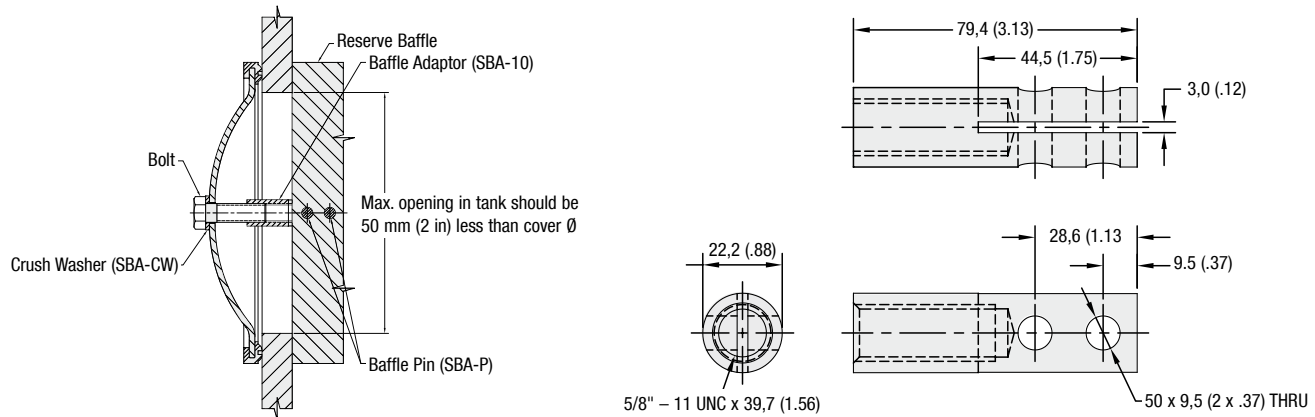
- 3/4" drain hole (not for EC-6 and EC-16)
- Back mounting brackets (included for EC-6)
- Baffle adaptors
- Seal kits (double lip gasket and crush washer)

Special sizes, designs, materials and configurations are available on request. Consult STAUFF for details.

Dimensions and Order Codes

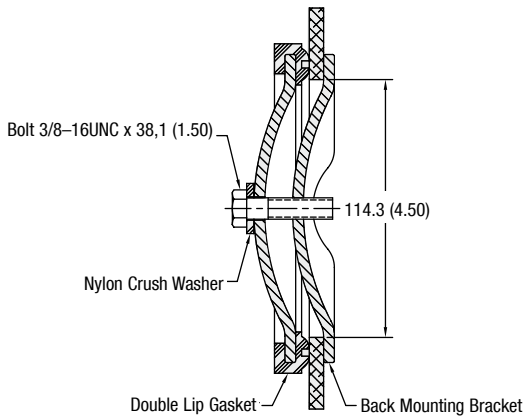
Order Code			Dimensions (mm/in)			Weight (kg/lbs)
w/o Drain Hole	with Drain Hole	Seal Kit	Diameter ØD1	Hole Size ØD2	H	
EC - 6			146	11,1	33	1,2
			5.75	.44	1.31	2.5
EC - 10	EC - 10D	EC - 10 - SK	254	17,4	44,5	2,1
			10.00	.69	1.75	4.5
EC - 12	EC - 12D	EC - 12 - SK	308	17,4	44,5	3,0
			12.13	.69	1.75	6.5
EC - 14	EC - 14D	EC - 14 - SK	359	17,4	44,5	3,9
			14.13	.69	1.75	8.5
EC - 16		EC - 16 - SK	410	17,4	44,5	4,8
			16.15	.69	1.75	10.5
EC - 18	EC - 18D	EC - 18 - SK	460	17,4	51	6,2
			18.11	.69	1.75	13.5

Baffle Adaptors for Reservoir End Covers



Dimensions and Order Codes

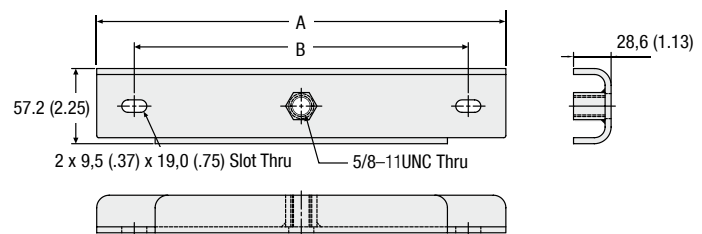
Order Code	Description
SBAB - 10	Mounting Bolt for EC-10 / EC-12: 5/8-11UNC x 38,1 (1.50)
SBAB - 14	Mounting Bolt for EC-14: 5/8-11UNC x 50,8 (2.00)
SBAB - 18	Mounting Bolt for EC-18: 5/8-11UNC x 63,5 (2.50)
SBA - 10	Baffle Adaptor
SBA - P	Baffle Pin
SBA - CW	Crush Washer



Back Mounting Bracket for EC - 6

EC-6 supplied with back mounting bracket

Back Mounting Brackets for Reservoir End Covers



Back Mounting Bracket for EC - 10 ... 18

Required when baffle adaptor is not used;
includes bracket and 2 weld on clips

Dimensions and Order Codes

Order Code	Dimensions (mm/in)		Access Hole Ø		Weight (kg/lbs)
	End Cover Ø		A	B	
SBR - 10	254	203,2	305	254	1,2
	10.00	8.00	12.00	10.00	2.5
SBR - 12	308	254,0	356	305	1,4
	12.13	10.00	14.02	12.00	3.0
SBR - 14	359	304,8	413	362	1,4
	14.13	12.00	16.26	14.25	3.0
SBR - 16	410	355,6	464	413	1,8
	16.15	14.00	18.27	16.26	4.0
SBR - 18	460	406,6	514	464	1,8
	18.11	16.00	20.24	18.27	4.0

Motor-Pump Adaptors for Electric Motors



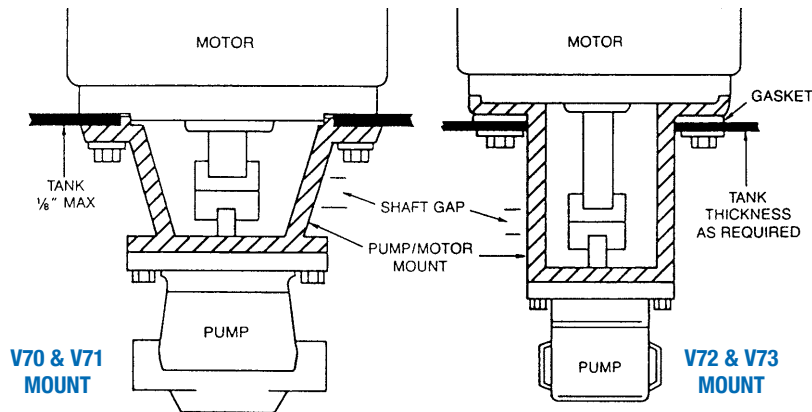
Characteristics

Product Features

- Vertical and horizontal mounts
- Easy assembly of pumps to electric motors
- For accurate alignment between pump and motor
- Light-weight, high-strength Aluminum casting
- One snap-in cover for access hole (standard)
- Suitable for electric motors to 74 kW / 100 hp

Consult STAUFF for options on Gas Engine Adaptors.

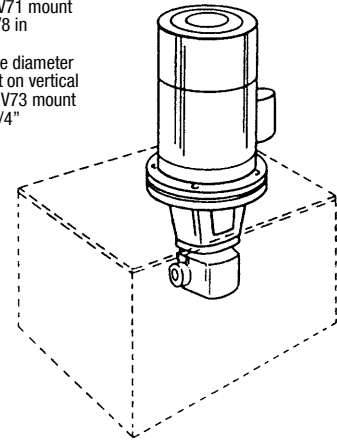
Vertical Mount Adaptors for Electric Motors



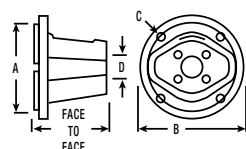
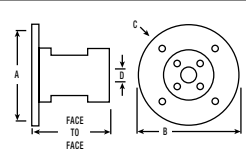
Note:

Outside diameter of pilot on vertical V70 & V71 mount is 4-7/8 in

Outside diameter of pilot on vertical V72 & V73 mount is 5 3/4"



Vertical pump mounts allow pump/motor assembly to be directly mounted to reservoir.
Pump coupling and shafts are within reservoir for enclosed, quiet operation.
Faster assembly of equipment with this accurately machined, aluminum casting.

Frame Number	Pump Mount Part Number	Motor Frame Size	SAE Pump Flange	Face To Face		Dimensions of NEMA-C Face Mount End (inches)						Dimensions of Pump Face Mount End (inches)				
						A		B		C		D		Pump Bolt Circle		
				mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
E70	V70-A4	56C 143-145 TC	4F17	89	3.50"	114	4.50	168	6.625	149	5.875	45	1.78	72	2.828	
	V70-AA		AA-2 BOLT									51	2.00	83	3.25	
	V70-A2		A-2 BOLT									83	3.25	106	4.188	
E71	V71-A4	56C 143-145 TC	4F17	112	4.40"	114	4.50	168	6.625	149	5.875	45	1.78	72	2.828	
	V71-AA		AA-2 BOLT									51	2.00	83	3.25	
	V71-A2		A-2 BOLT									83	3.25	106	4.188	
E72	V72-A4	182-184 TC	4F17	130	5.12"	216	8.50	222	8.75	184	7.25	45	1.78	72	2.828	
	V72-AA	213-215 TC	AA-2 BOLT									51	2.00	83	3.25	
	V72-A2	254-256 TC	A-2 BOLT									83	3.25	106	4.188	
E73	V73-A4	182-184 TC	4F17	163	6.40"	216	8.50	222	8.75	184	7.25	45	1.78	72	2.828	
	V73-AA	213-215 TC	AA-2 BOLT									51	2.00	83	3.25	
	V73-A2	254-256 TC	A-2 BOLT									83	3.25	106	4.188	

Motor-Pump Adaptors for Electric Motors

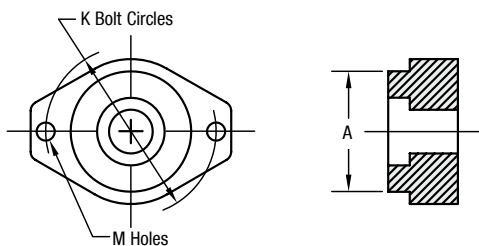
Vertical Mount Adaptors for Electric Motors

Frame Number	Pump Mount Part Number	Motor Frame Size	SAE Pump Flange	Face to Face		Dimensions of NEMA-C Face Mount End (Inches)						Dimensions of Pump Face Mount End (Inches)				Maximum Coupling Diameter					
						A		B		C		D		Pump Bolt Circle							
				mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in				
E49	E49-A4	56C 143-145 TC	4F17	89	3.50	114	4.50	168	6.625	149	5.875	45	1.78	72	2.828	76	3.00				
	E49-AA		AA-2 BOLT									51	2.00	83	3.25						
	E49-A2		A-2 BOLT									83	3.25	106	4.188						
E50	E50-A4	56C 143-145 TC	4F17	112	4.40	114	4.50	168	6.625	149	5.875	45	1.78	72	2.828	76	3.00				
	E501-AA		AA-2 BOLT									51	2.00	83	3.25						
	E50-A2		A-2 BOLT									83	3.25	106	4.188						
	E501-A2/4		A 2/4									83	3.25	106	4.188						
E51	E51-A4	182-184 TC	4F17	130	5.12	216	8.50	222	8.75	184	7.25	45	1.78	72	2.828	89	3.50				
	E51-AA		AA-2 BOLT									51	2.00	83	3.25						
	E51-A2		A-2 BOLT									83	3.25	106	4.188						
E52	E52-A4	213-215 TC	4F17	163	6.40	216	8.50	222	8.75	184	7.25	45	1.78	72	2.828	89	3.50				
	E52-AA		AA-2 BOLT									51	2.00	83	3.25						
	E52-A2		A-2 BOLT									83	3.25	106	4.188						
E53	E53-A2	182-184 TC	A-2 BOLT	147	5.81	216	8.50	222	8.75	184	7.25	83	3.25	106	4.188	89	3.50				
E54	E54-B2		B-2 BOLT									102	4.00	146	5.75						
E55	E55-A2		213-215 TC									A-2 BOLT	83	3.25	106				4.188		
E56	E56-B2	254-256 TC	B-2 BOLT	172	6.81	216	8.50	222	8.75	184	7.25	102	4.00	146	5.75	102	4.00				
E57	E57-A2S		A-2 BOLT									83	3.25	106	4.188						
	E57-A2L		A-2 BOLT									83	3.25	106	4.188						
	E502-A2/4	182-256TC	A 2/4	133	5.25							83	3.25	106	4.188						
E58	E58-A2	182-182 TC	A-2 BOLT	147	5.81	216	8.50	222	8.75	184	7.25	83	3.25	106	4.188	102	4.00				
	E58-B2	213-215TC	B-2 BOLT									102	4.00	146	5.75						
	E58-C2	254-256 TC	C-2 BOLT									127	5.00	181	7.125						
E59	E59-A2	182-184 TC	A-2 BOLT	172	6.81	216	8.50	222	8.75	184	7.25	83	3.25	106	4.188	102	4.00				
	E59-B2	213-215 TC	B-2 BOLT									102	4.00	146	5.75						
	E59-C2	254-256 TC	C-2 BOLT									127	5.00	181	7.125						
E62	E62-A2	284-286 TC	A-2 BOLT	174	6.87	267	10.50	279	11.00	228	9.00	83	3.25	106	4.188	102	4.50				
	E62-B2	284-286 TSC	B-2 BOLT									102	4.00	146	5.75						
	E62-C2		C-2 BOLT									127	5.00	181	7.125						
E63	E63-A2	284-286 TC	A-2 BOLT	200	7.87	267	10.50	279	11.00	228	9.00	83	3.25	106	4.188	102	4.50				
	E63-B2	284-286 TSC	B-2 BOLT									102	4.00	146	5.75						
	E63-C2		C-2 BOLT									127	5.00	181	7.125						
E64	E64-A2	324-326 TSC	A-2 BOLT	168	6.62	318	12.50	330	13.00	279	11.00	83	3.25	106	4.188	133	5.25				
	E64-B2/4	364-365 TSC	B-2 BOLT									102	4.00	146	5.75						
			C-2 BOLT									102	4.00	127	5.00						
			C-4 BOLT									127	5.00	162	6.375						
E65	E65-A2	324-326 TSC	A-2 BOLT	179	7.06	318	12.50	330	13.00	279	11.00	83	3.25	106	4.188	133	5.25				
	E65-B2/4	364-326 TSC	B-2 BOLT									102	4.00	146	5.75						
			B-4 BOLT									102	4.00	127	5.00						
			C-2 BOLT									127	5.00	181	7.125						
E66	E66-A2	324-326 TSC	A-2 BOLT	222	8.75	318	12.50	330	13.00	279	11.00	127	5.00	162	6.375	133	5.25				
			B-2 BOLT									102	4.00	146	5.75						
			B-4 BOLT									102	4.00	127	5.00						
	E66-C2/4	404-405 TSC	C-2 BOLT									127	5.00	181	7.125						
E67	E67-D2/4	324-326 TSC	D-2 BOLT	179	7.06	318	12.50	330	13.00	279	11.00	127	5.00	162	6.375	152	6.00				
		264-365 TSC	D-4 BOLT									152	6.00	229	9.00						
E68	E68-D2/4	324-326 TSC	D2 BOLT	222	8.75	318	12.50	330	13.00	279	11.00	152	6.00	229	9.00						
		404-405 TSC	D4 BOLT									152	6.00	229	9.00						
ADAPTOR FOR E51-E59 TO CONVERT TO 284-286 TSC MOTORS																					
E69	E69					267	10.50	279	11.00	228	9.00										

**Note: Use the E69 adaptor ring with E58 and E59 mounts for all E62 and E63 mounts.

Motor-Pump Adaptors for Electric Motors

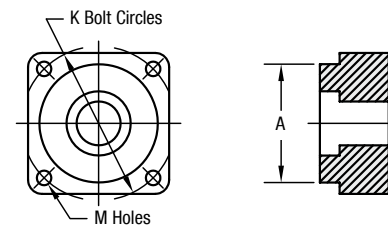
Mounting Dimensions for SAE-2 and SAE-4 Bolt NEMA Electric Motors



SAE-2 Bolt Mount

Dimensions in inch.

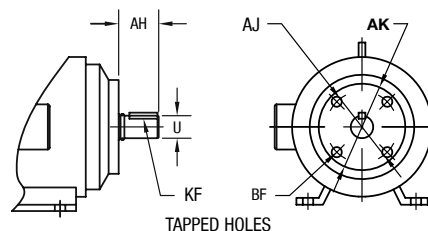
MOUNTING FLANGE SAE	PILOT DIMENSIONS A	FLANGE DIMENSIONS	
		K	M
AA	2.000/1.998	3.255 3.245	0.406
A	3.250/3.248	4.192 4.182	0.438
B	4.000/3.998	5.755 5.745	0.562
C	5.000/4.998	7.130 7.120	0.687
D	6.000/5.998	9.005 8.995	0.812
E	6.500/6.498	12.503 12.495	1.062
F	7.000/6.998	13.786 13.776	1.062



SAE-4 Bolt Mount

Dimensions in inch.

MOUNTING FLANGE SAE	PILOT DIMENSIONS A	FLANGE DIMENSIONS	
		K	M
USA 4F17	1.781/1.779	2.843 2.833	0.375
A	3.250/3.248	4.130 4.120	0.438
B	4.000/3.998	5.005 4.995	0.562
C	5.000/4.998	6.380 6.370	0.562
D	6.000/5.998	9.005 8.995	0.812
E	6.500/6.498	12.505 12.495	0.812
F	7.000/6.998	13.786 13.776	1.062

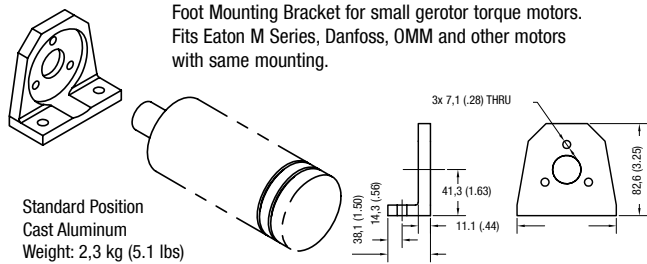


NEMA Electric Motor Shaft and C-Face Dimension

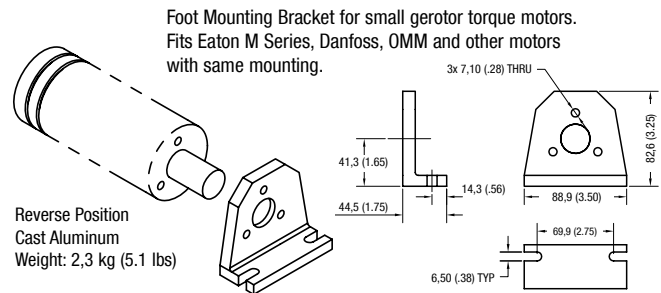
NEMA Motor	Frame	Bolt Circle AJ		Register AK	Shaft Diameter U		Shaft Length AH		Key Sq.		Key Length		BP Tapped Holes Size No. Req'd.	
		mm	in		mm	in	mm	in	mm	in	mm	in		
56C	149	149	5-7/8	4-1/2	16	5/8	52	2-1/16	5	3/16	25	1	3/8-16	4
143TC	149	149	5-7/8	4-1/2	22	7/8	54	2-1/8	5	3/16	35	1-3/8	3/8-16	4
145TC	149	149	5-7/8	4-1/2	22	7/8	54	2-1/8	5	3/16	35	1-3/8	3/8-16	4
182TC	184	184	7-1/4	8-1/2	29	1-1/8	67	2-5/8	6	1/4	44	1-3/4	1/2-13	4
184TC	184	184	7-1/4	8-1/2	29	1-1/8	67	2-5/8	6	1/4	44	1-3/4	1/2-13	4
213TC	184	184	7-1/4	8-1/2	35	1-3/8	79	3-1/8	8	5/16	60	2-3/8	1/2-13	4
215TC	184	184	7-1/4	8-1/2	35	1-3/8	79	3-1/8	8	5/16	60	2-3/8	1/2-13	4
254TC	184	184	7-1/4	8-1/2	41	1-5/8	95	3-3/4	10	3/8	73	2-7/8	1/2-13	4
256TC	184	184	7-1/4	8-1/2	41	1-5/8	95	3-3/4	10	3/8	73	2-7/8	1/2-13	4
284TC	229	229	9	10-1/2	48	1-7/8	111	4-3/8	13	1/2	83	3-1/4	1/2-13	4
284TSC	229	229	9	10-1/2	41	1-5/8	76	3	10	3/8	48	1-7/8	1/2-13	4
286TC	229	229	9	10-1/2	48	1-7/8	111	4-3/8	13	1/2	83	3-1/4	1/2-13	4
286TSC	229	229	9	10-1/2	41	1-5/8	76	3	10	3/8	48	1-7/8	1/2-13	4
324TC	279	279	11	12-1/2	54	2-1/8	127	5	13	1/2	98	3-7/8	5/8-11	4
324TSC	279	279	11	12-1/2	48	1-7/8	89	3-1/2	13	1/2	51	2	5/8-11	4
326TC	279	279	11	12-1/2	54	2-1/8	127	5	13	1/2	98	3-7/8	5/8-11	4
326TSC	279	279	11	12-1/2	48	1-7/8	89	3-1/2	13	1/2	51	2	5/8-11	4
364TC	279	279	11	12-1/2	60	2-3/8	143	5-5/8	16	5/8	108	4-1/4	5/8-11	8
364TSC	279	279	11	12-1/2	48	1-7/8	89	3-1/2	13	1/2	51	2	5/8-11	8
365TC	279	279	11	12-1/2	60	2-3/8	143	5-5/8	16	5/8	108	4-1/4	5/8-11	8
365TSC	279	279	11	12-1/2	48	1-7/8	89	3-1/2	13	1/2	51	2	5/8-11	8
404TC	279	279	11	12-1/2	60	2-7/8	178	7	19	3/4	143	5-5/8	5/8-11	8
404TSC	279	279	11	12-1/2	54	2-1/8	102	4	13	1/2	70	2-3/4	5/8-11	8
405TC	279	279	11	12-1/2	60	2-7/8	178	7	19	3/4	143	5-5/8	5/8-11	8
405TSC	279	279	11	12-1/2	54	2-1/8	102	4	13	1/2	70	2-3/4	5/8-11	8
444TC	356	356	14	16	92	3-3/8	210	8-1/4	22	7/8	175	6-7/8	5/8-11	8
444TSC	356	356	14	16	60	2-3/8	114	4-1/2	16	5/8	76	3	5/8-11	8
445TC	356	356	14	16	92	3-3/8	210	8-1/4	22	7/8	175	6-7/8	5/8-11	8
445TSC	356	356	14	16	60	2-3/8	114	4-1/2	16	5/8	76	3	5/8-11	8

Foot Mount Brackets for Hydraulic Pumps ▪ Type FM

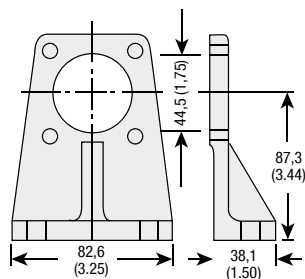
FM-36-M3



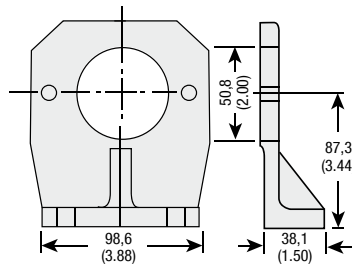
FM-37-M3R



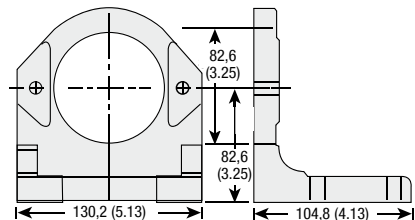
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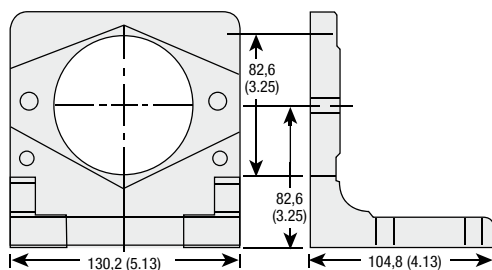
FM-39-AA2



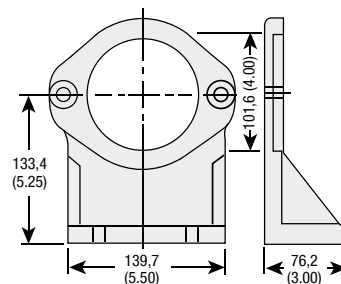
FM-40-A2



FM-41-A2C



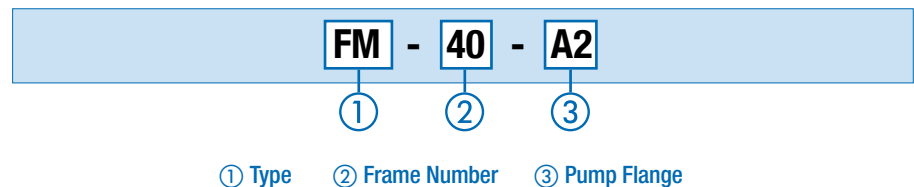
FM-42-B2



Characteristics

- Lightweight Aluminum casting
- Sizes available:
SAEAA - 4 Bolt
SAEAA - 2 Bolt
SAEA - 2 Bolt
SAEB - 2 Bolt

Order Codes



Pipe, Tube and Hose Cleaning System



Characteristics

Simple and low cost solution for the removal of unwanted contaminant from the inside surfaces of pipes, tubes and hoses

The STAUFF Clean system comprises of a pneumatic launcher and a range of specially designed nozzles. The launcher uses standard industrial compressed air in pressure between 6 and 8 bar / 87 and 116 PSI to propel a foam projectile through the nozzle and into the hose, tube or pipe to be cleaned. This provides a safe and environmentally friendly tool that requires little formal expertise to operate and apply.

The launcher is the part of the system that controls the air supply to propel the projectile from start to finish of the cleaning job.

The nozzles are specially designed to affect an airtight seal on any pipe, tube or hose with or without end fittings. Its main purpose is to compress the foam projectile allowing it to enter the internal diameter of the pipe, tube or hose to be cleaned.

The projectile is the part of the system that does the cleaning: The foam projectile is sized to be approximately 15 % larger than the internal diameter of the pipe, tube or hose to be cleaned. The compression of the projectile against the internal wall cleans the internal surface and expels any loose contaminants from the end of the pipe, tube or hose.

The STAUFF Clean System is available as separate components or in a variety of kit forms comprising various nozzle types, adaptor and launcher, all contained in a heavy duty carrying case.

Launchers / Launcher Kits



Characteristics

Features

- Pneumatic pistol-grip launcher
- Light-weight and ergonomic design
- Easy to operate and apply
- Connection to air supply with quick release coupling
- Suitable for any type of nozzle
- Delivered separately or in a variety of kit forms including carrying case, adaptor ring and nozzles (if required)

Technical Data

- Air compressor requirement: 6 ... 8 bar / 87 ... 116 PSI
- Effective air volume: 250 ... 400 l/min / 66 ... 106 US GPM

Order Codes

- | | |
|---|------------------|
| ▪ Launcher only | SC-LG-1 |
| ▪ Launcher kit without nozzles | SC-LK-1 |
| ▪ Launcher kit with set of 10 Universal nozzles | SC-10UV-K |
| ▪ Launcher kit with set of 18 Metric Tube nozzles | SC-18MT-K |
| ▪ Launcher kit with set of 10 JIC nozzles | SC-10J-K |
| ▪ Launcher kit with set of 7 BSP nozzles | SC-7B-K |
| ▪ Launcher kit with set of 7 NPT nozzles | SC-7N-K |
| ▪ Adaptor ring | SC-UV-AR |

Consult STAUFF for special connection adaptors and couplings.

Nozzles / Nozzle Sets



If required, nozzles can also be supplied separately. Consult STAUFF for availability and order codes.

Universal Nozzle Set (Order Code: SC-10UV-S)

The Universal Nozzle is designed with a tapered seat that will allow it to suit for 90% of applications, including Hose, Tube and Pipe, with or without fittings, in hydraulic and pneumatic pipe systems, condenser tubes, boiler tubes and food lines.

The Universal Nozzle kit fits all and will accommodate applications with JIC, SAE and BSP end fittings.

The set of 10 nozzles consists of the following sizes: 6 mm, 8 mm, 10 mm, 13 mm, 16 mm, 19 mm, 25 mm, 32 mm, 38 mm and 50 mm.

Metric Tube Nozzle Set (Order Code: SC-18MT-S)

The Metric Tube Nozzle is intended for use specifically with Metric sized tube and is designed to fit over the outside of the tube or pipe being cleaned.

The inside diameter of the nozzle is reduced to match the inside diameter of the tube. The nozzles are machined from solid bar stock and designed for superior strength.

The set of 18 nozzles consist of the following Metric OD sizes: 6 mm, 8 mm, 10 mm, 12 mm, 14 mm, 15 mm, 16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 28 mm, 30 mm, 35 mm, 38 mm, 42 mm, 50 mm and 60 mm.

JIC Nozzle Set (Order Code: SC-10J-S)

The JIC Nozzle is designed specifically for use with JIC and SAE type fittings. The nozzles are machined to accommodate both male and female configuration, ensuring a perfect airtight seal every time.

The set of 10 nozzles consist of the following sizes: 6 mm, 8 mm, 10 mm, 13 mm, 16 mm, 19 mm, 25 mm, 32 mm, 38 mm and 50 mm.

BSP Nozzle Set (Order Code: SC-7B-S)

The BSP Nozzle is designed specifically for BSP configuration fittings. The nozzles are machined to accommodate both male and female configurations, ensuring a perfect airtight seal every time.

The set of 7 nozzles consist of the following sizes: 6 mm, 10 mm, 13 mm, 16 mm, 19 mm, 25 mm and 32 mm.

NPT Nozzle Set (Order Code: SC-7N-S)

The NPT Nozzle is designed specifically for NPT configuration fittings. The nozzles are machined to accommodate both male and female configurations, ensuring a perfect airtight seal every time.

The set of 7 nozzles consist of the following sizes: 1/4 in, 3/8 in, 1/2 in, 5/8 in, 3/4 in, 1 in and 1-1/4 in.

Projectiles



Standard Series (S)

Not available in North America

Standard Series Projectiles are intended for the cleaning of hose, tube or pipe without end fittings or restrictions.

Coupling Series (C)

Standard in North America

Coupling Series Projectiles are intended for the cleaning of hose assemblies (hose with end fittings, adjustments, etc.) or the removal of loose particles from pipe or tube.

Abrasive Series (A)

Abrasive Series Projectiles are intended for the cleaning of metal pipe and tube to remove light rust and scale. They are recognised by the abrasive pad fixed to one end of the projectile.

Grinding Series (G)

Grinding Series Projectiles are intended for the cleaning of metal pipe and tube to remove medium and heavy rust and build up from the internal surface. They are coated in Silicon Carbide.

Pipe O.D. (mm)	Pipe/Hose I.D. (mm/in)	Order Codes Standard Series (S)	Order Codes Coupling Series (C)	Order Codes Abrasive Series (A)	Order Codes Grinding Series (G)	Packaging Units (Projectiles / Order Unit)
07	4,8 3/16	SC-S-07	SC-C-07	SC-A-07	SC-G-07	100
09	6,35 1/4	SC-S-09	SC-C-09	SC-A-09	SC-G-09	100
10	6,35 1/4	SC-S-10	SC-C-10	SC-A-10	SC-G-10	100
12	7,9 5/16	SC-S-12	SC-C-12	SC-A-12	SC-G-12	100
14	9,5 3/8	SC-S-14	SC-C-14	SC-A-14	SC-G-14	100
16	11,1 7/16	SC-S-16	SC-C-16	SC-A-16	SC-G-16	100
18	12,7 1/2	SC-S-18	SC-C-18	SC-A-18	SC-G-18	100
20	14,28 9/16	SC-S-20	SC-C-20	SC-A-20	SC-G-20	100
22	15,88 5/8	SC-S-22	SC-C-22	SC-A-22	SC-G-22	100
26	19,05 3/4	SC-S-26	SC-C-26	SC-A-26	SC-G-26	50
28	20,64 13/16	SC-S-28	SC-C-28	SC-A-28	SC-G-28	50
30	22,23 7/8	SC-S-30	SC-C-30	SC-A-30	SC-G-30	40
33	25,4 1	SC-S-33	SC-C-33	SC-A-33	SC-G-33	40
36	26 / 27 1-1/16	SC-S-36	SC-C-36	SC-A-36	SC-G-36	30
38	28,58 1-1/8	SC-S-38	SC-C-38	SC-A-38	SC-G-38	30
40	31,75 1-1/4	SC-S-40	SC-C-40	SC-A-40	SC-G-40	30
45	34,93 1-3/8	SC-S-45	SC-C-45	SC-A-45	SC-G-45	20
50	38,1 1-1/2	SC-S-50	SC-C-50	SC-A-50	SC-G-50	20
55	44,45 1-3/4	SC-S-55	SC-C-55	SC-A-55	SC-G-55	15
60	50,8 2	SC-S-60	SC-C-60	SC-A-60	SC-G-60	10

Please note: For optimum cleaning, it is recommended that projectiles are used once and then discarded.

Safety note: A mesh collection bag should be secured to the pipe, tube or hose exit to avoid possible injury to personnel by the projectile exiting at high velocity.

Always wear protective safety glasses, ear protection and a dust mask when operating this device.