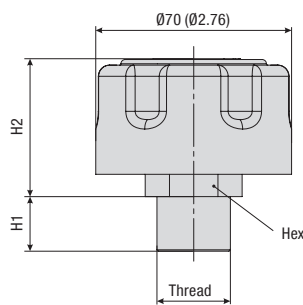


Plastic Filler Breather Type SPBN (Compact Design; Threaded or Bayonet Version)

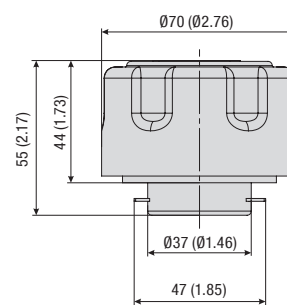
B



Height above tank
– 15 mm / – .59 in
in comparison with
SPB-2



**SPBN
Threaded 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 070 mm / 02.76 in
- Threaded version, equipped with male BSP thread (ISO 228) or male NPT thread (ANSI B1.20.1)
- Bayonet version for flange interfaces, with a six-hole bolt pattern, similar to DIN 24557, part 2
- Operating temperature range: -40 °C ... +120 °C / -40 °F ... +248 °F

Materials

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

Contact 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 Threaded version only)
- Plastic dipstick with integrated anti-splash feature
- Plastic dipstick with integrated magnet
- Oil Demister

Please see pages 29 and 47 for details.

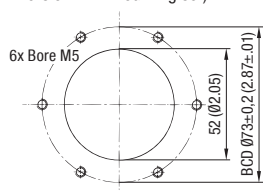
Maximum Air Flow Rate

- 0,40 m³/min / 14.13 cfm

Please see page 29 for detailed air flow curves.

Installation

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



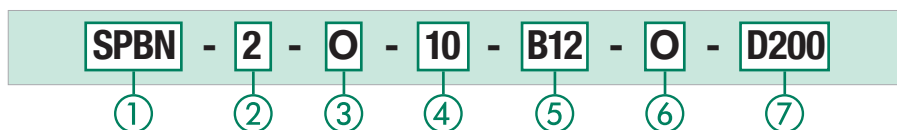
- 6 slotted pan head screws (ISO 1580 M5 x 12-5.8) are included in delivery of the bayonet version with mounting set

Dimensions (Threaded Version)

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

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

Order Codes



① Type

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

② Version

Cap diameter 070 mm (02.76 in) **2**

③ Pressurisation

Without pressurisation (standard option) **0**
 Pressurised at 0,2 bar / 3 PSI **B0.2**
 Pressurised at 0,35 bar / 5 PSI **B0.35**
 Pressurised at 0,7 bar / 10 PSI **B0.7**

Please see page 29 for details.

④ Air Filter Element (Material / Micron Rating)

10 µm Foam / PUR (standard option) **10**
 40 µm Foam / PUR **40**

Contact STAUFF for alternative materials / micron ratings.

⑤ Connection

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

⑥ Anti-Splash Feature

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

Please see page 29 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**
 Plastic dipstick (300 mm / 11.81 in) with integrated magnet **D300M**
 Without dipstick **-**

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



Plastic Dipstick Anti-Splash Feature

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

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

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

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

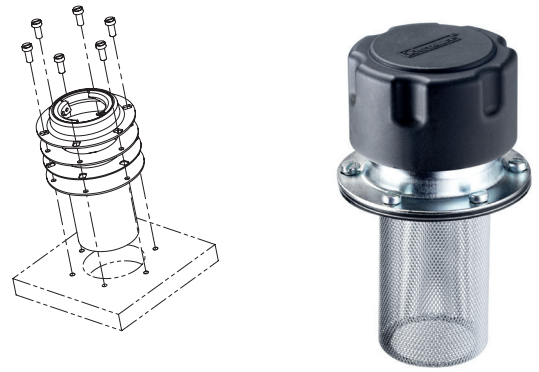
Pressurisation

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

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

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

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



Scope of Delivery / Order Codes

Mounting sets for baskets include the following components:

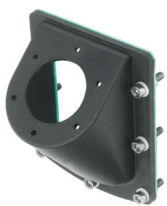
- 6 slotted pan head screws made of steel, zinc-plated (ISO 1580 M5 x 12-5.8)
 - Bayonet flange made of steel, zinc-plated, with six-hole bolt pattern acc. to DIN 24557, part 2
 - 2 gaskets made of NBR (Buna-N®) - one for underneath and one for on top of the basket
 - Metal or plastic basket (only if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

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

Further Accessories / Options



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



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

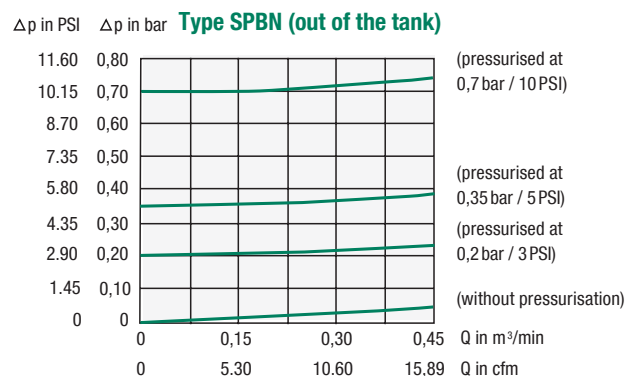
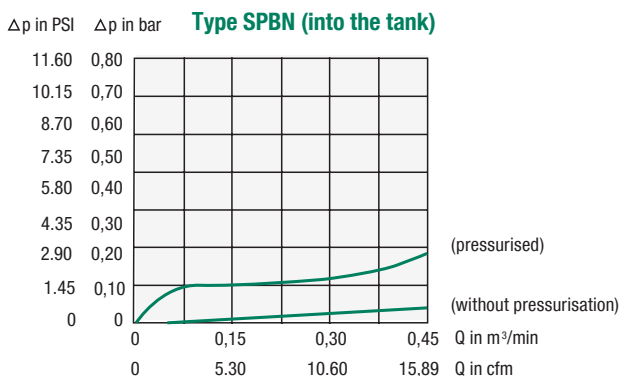


Weld Riser - Type WR
Suitable for SPBN; Bayonet Version BM
(See page 39 for details)

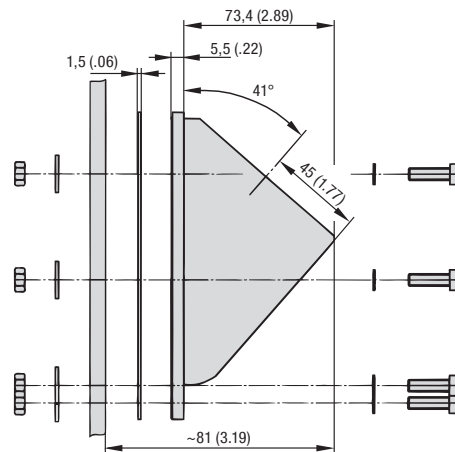
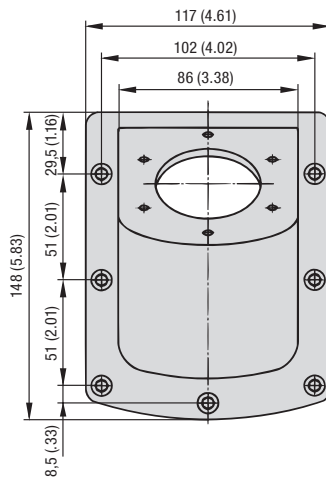
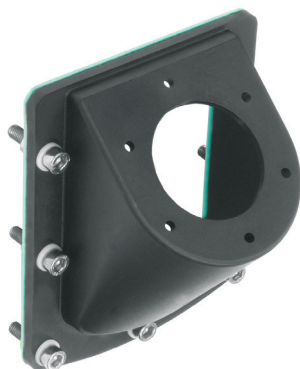


Side Mount Bracket (Aluminium) - Type ASMB-2
Suitable for SPBN; Bayonet Version BM
(See page 38 for details)

Pressure Drop Flow Curves Plastic Filler Breathers



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



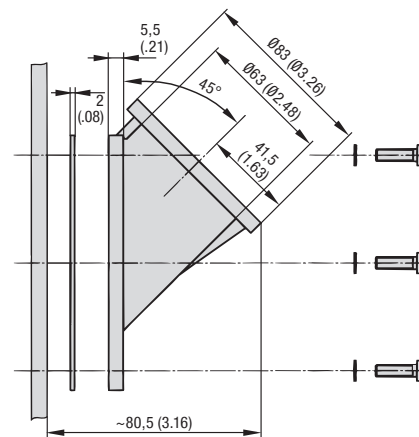
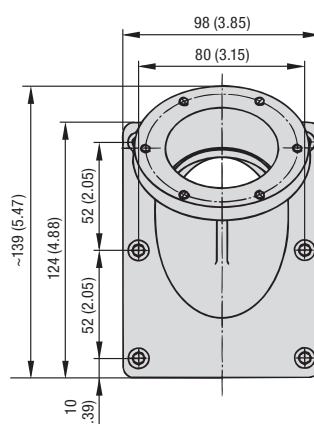
① Type

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 NBR (Buna-N®)
- Screws made of Steel, phosphated
- Washers made of gasket paper

Scope of Delivery

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

Installation

- Bolted to the side of the reservoir
- Bayonet flange of filler breather is placed on top
- Flange interface similar to DIN 24557, part 2 with 6 equally spaced bores M5 (BCD $\varnothing 73 \pm 0,2$ mm / $\varnothing 2.87 \pm .01$ in)

Order Codes



① Type

Side Mount Bracket **SMBB-ASMB**

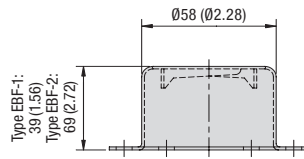
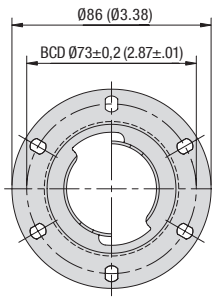
② Housing Material

Aluminium **2**

Dimensional drawings: All dimensions in mm (in).

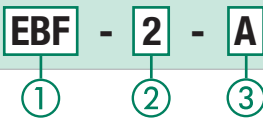


Extended Bayonet Flange Type EBF



B

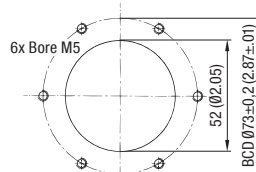
Order Codes



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
③ Anti-Splash Feature	Without anti-splash feature (standard option)	-
	With anti-splash feature	A

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 24 mm / .94 in or 54 mm / 2.12 in above the actual mounting surface of the reservoir to prevent contamination from blocking the filter element

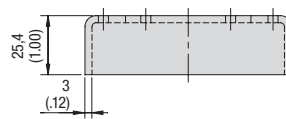
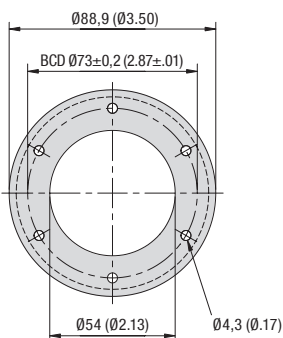
Suitability

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

Materials

- Bayonet flange made of Steel, zinc-plated

Weld Riser Type WR



Order Codes



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

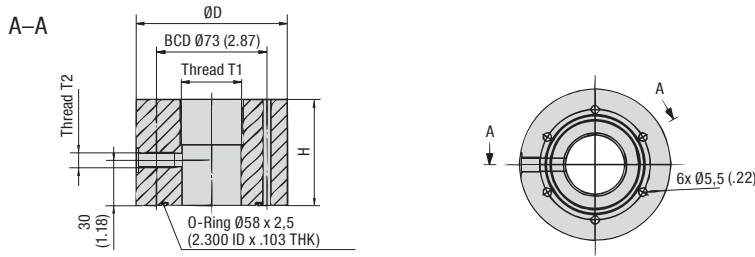
Characteristics

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





Adaptor Plate Type AP



Desiccant Air Breather SDB with Adaptor Plate AP

Order Code and Dimensions

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

Characteristics

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

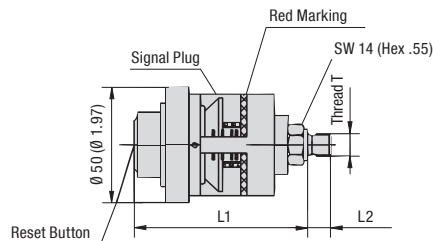
With Adaptor Plates AP, desiccant air breathers can be directly mounted to existing connections with a six-hole bolt pattern for flange interfaces similar to DIN 24557, part 2.

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

Adaptor Plates AP are made of Polyamide (PA). A blind plug, O-ring made of NBR (Buna-N®) and 6 socket cap screws (ISO 4762) are supplied with AP as a standard.

Contact STAUFF for other Adaptor Plates.

Visual Contamination Indicator Type FM



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



Order Code and Dimensions

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

Materials

- Housing made of Polycarbonate

Technical Data

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

Characteristics

Designed to indicate the status of air filter elements

Visual Contamination Indicators FM – the so-called Filter Minders® – are connected to the female G1/8 BSP thread (ISO 228) of the Adaptor Plate AP and give a visual indication of the contamination level of the air filter element SGB. A red marking indicates when the air filter element has to be replaced.

Visual Contamination Indicators FM can be reset afterwards.

Order Code and Dimensions

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

Dimensional drawings: All dimensions in mm (in).

Characteristics

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

Features

- Available in 2 different sizes with lengths of 140 mm / 5.51 in or 210 mm / 8.27 in
- Suitable for use with various types of Desiccant Air Breathers including SDB-096/2, SDB-093/2, SVDB-096, SVDB-093 and SDB-096-CV as well as Tank Filler Breathers including SPB-2, SPB-3, SMTB-80 and SPBN

Materials

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

Oil Demister Type TBA-OD

