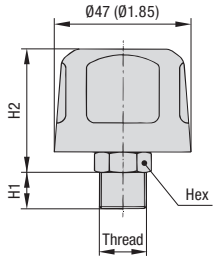
B

Metal Filler Breather
Type SMBT-47
(Threaded Version)





Characteristics

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

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

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

Contact STAUFF for alternative materials.

Accessories / Options
- Air filter element

Maximum Air Flow Rate
- 0,40 m³/min / 14.13 cfm

Contact STAUFF for detailed air flow curves.

Dimensions

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

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

Contact STAUFF for alternative threads.

Order Codes

SMBT - 47 - S - 10 - O - B08

① ② ③ ④ ⑤ ⑥

① Type / Version

Metal Filler Breather; Threaded version	**SMBT**

② Cap Diameter / Material / Surface Finishing

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

③ Label

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

④ Air Filter Element (Material / Micron Rating)

Without Breather Function	**0**
3 µm Filter Paper	**03**
10 µm Foam / PUR (standard option)	**10**
40 µm Foam / PUR	**40**

Contact STAUFF for alternative materials / micron ratings.

⑤ Pressurisation

Without pressurisation (standard option)	**0**

No pressurisation available for this cap diameter.

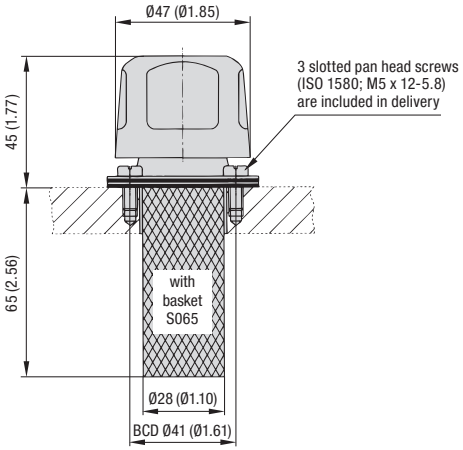
⑥ Connection Thread (Male)

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

Contact STAUFF for alternative threads.

Dimensional drawings: All dimensions in mm (in).

Metal Filler Breather Type SMBB-47 (Bayonet Version)





Characteristics

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

Features

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

Materials

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

Contact STAUFF for alternative materials.

Accessories / Options

- Metal basket (800 µm)
- Air filter element

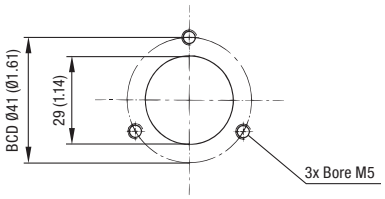
Maximum Air Flow Rate

- 0,40 m³/min / 14.13 cfm

Contact STAUFF for detailed air flow curves.

Installation

- Three-hole bolt pattern for flange interfaces:



- 3 slotted pan head screws (ISO 1580 M5 x 12-5.8) are included in delivery; can be replaced by regular M5 bolts, if required

Order Codes

SMBB - 47 - S - 10 - O - 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, zinc/nickel-plated (standard option)	**47**
Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, chrome-plated	**47C**
Cap diameter Ø47 mm (Ø1.85 in); Breather cap made of Steel, expoxy-coated	**47E**

③ Label

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

④ Air Filter Element (Material / Micron Rating)

Without Breather Function	**0**
3 µm Filter Paper	**03**
10 µm Foam / PUR (standard option)	**10**
40 µm Foam / PUR	**40**

Contact 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

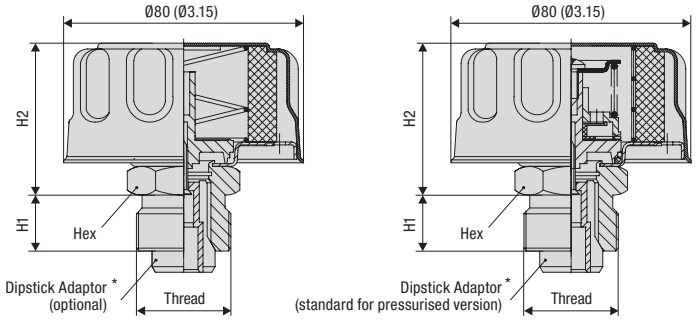
Metal basket (65 mm / 2.56 in) (standard option)	**S065**
Without basket	**0**

Dimensional drawings: All dimensions in mm (in).

B

Metal Filler Breather
Type SMBT-80
(Threaded Version)





Without Pressurisation **Pressurised**

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

Characteristics

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

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

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

Contact STAUFF for alternative materials.

Accessories / Options
- Pressurisation up to 0,7 bar / 10 PSI
- Air filter element
- Dipstick adaptor suitable for plastic dipstick DS-1 (not for connection threads G1/2 and 1/2 NPT)
- Plastic dipstick DS-1 with integrated anti-splash feature (not for connection threads G1/2 and 1/2 NPT)
- Plastic dipstick with integrated magnet
- Oil Demister

Please see pages 26 and 53 for details.

Maximum Air Flow Rate
- 0,45 m³/min / 15.89 cfm

Contact STAUFF for detailed air flow curves.

Dimensions

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

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

Order Codes

SMBT	-	80	-	S	-	10	-	O	-	B08	-	O
①		②		③		④		⑤		⑥		⑦

① Type / Version

Metal Filler Breather; Threaded version	**SMBT**

② Cap Diameter / Material / Surface Finishing

Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, zinc/nickel-plated (standard option)	**80**
Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, chrome-plated	**80C**
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 Breather Function	**0**
3 µm Filter Paper	**03**
10 µm Foam / PUR (standard option)	**10**
40 µm Foam / PUR	**40**

Contact STAUFF for alternative materials / micron ratings.

⑤ Pressurisation

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

Please see page 26 for details.

⑥ Connection Thread (Male)

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

Contact STAUFF for alternative threads.

⑦ Dipstick

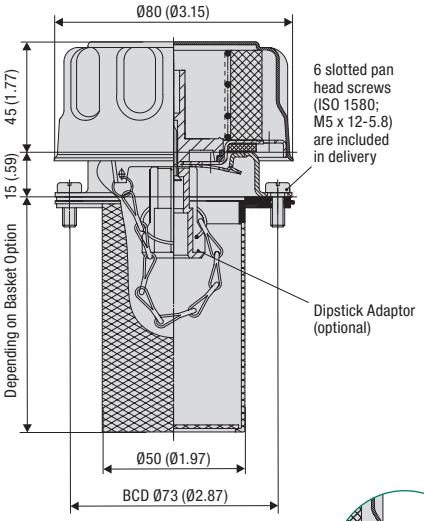
Without dipstick (standard option)	**0**
With dipstick adaptor suitable for dipstick DS-1 (not for connection threads G1/2 and 1/2 NPT)	**A**
With dipstick adaptor and plastic dipstick DS-1 (300 mm / 11.81 in) with integrated anti-splash feature (not for connection threads G1/2 and 1/2 NPT)	**D300**
Plastic dipstick (300 mm / 11.81 in) with integrated magnet	**D300M**

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

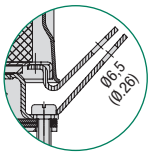
Please note: The dipstick adaptor is required for the subsequent installation of plastic dipsticks DS-1 (see page 26 for details), and is included in delivery when ordering a pressurised version. The dipstick adaptor is not available for connection threads G1/2 and 1/2 NPT.

Dimensional drawings: All dimensions in mm (in).

Metal Filler Breather Type SMBB-80 (Bayonet Version)

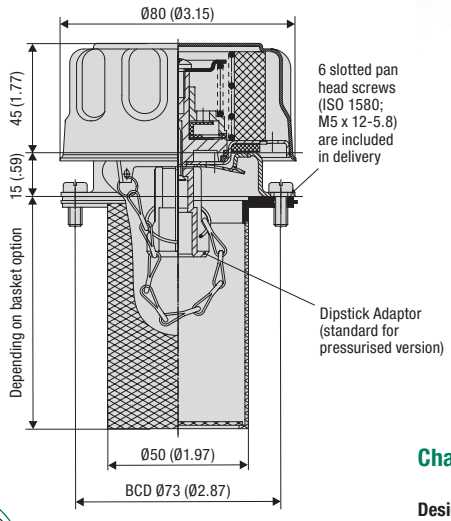


Without Pressurisation



Locking Feature

(Recommended mounting space: Ø126 mm / Ø4.96 in)



Pressurised



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
- Operating temperature range: -30 °C ... +120 °C / -22 °F ... +248 °F

Materials

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

Contact STAUFF for alternative materials.

Accessories / Options

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

Please see page 26 for details.

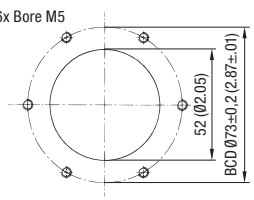
Maximum Air Flow Rate

- 0,45 m^3/min / 15.89 cfm

Contact STAUFF for detailed air flow curves.

Installation

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



- 6 slotted pan head screws (ISO 1580 M5 x 12-5.8) are included in delivery; can be replaced by regular M5 bolts, if required

Order Codes

SMBB	-	80	-	S	-	L	-	10	-	O	-	C	-	S080	-	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, zinc/nickel-plated (standard option)	**80**
Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, chrome-plated	**80C**
Cap diameter Ø80 mm (Ø3.15 in); Breather cap made of Steel, expoxy-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 Breather Function	**O**
3 µm Filter Paper	**03**
10 µm Foam / PUR (standard option)	**10**
40 µm Foam / PUR	**40**

Contact STAUFF for alternative materials / micron ratings.

⑥ Pressurisation

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

Please see page 26 for details.

⑦ Sealing Material

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

⑧ Basket Option

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

⑨ Dipstick

Without dipstick (standard option)	**O**
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**
Plastic dipstick (300 mm / 11.81 in) with integrated magnet	**D300M**

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

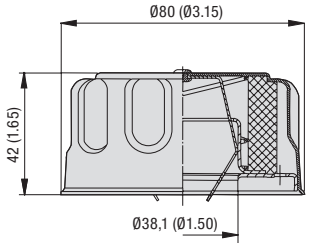
Please note: The dipstick adaptor is required for the subsequent installation of plastic dipsticks DS-1 (see page 26 for details), and is content of delivery when ordering a pressurised version.

Dimensional drawings: All dimensions in mm (in).

B

Metal Breather
Type SMBP-80
(Push-On Version)





Characteristics

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

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

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

Contact STAUFF for alternative materials.

Accessories / Options
- Air filter element

Maximum Air Flow Rate
- 0,45 m^3/min / 15.89 cfm

Contact STAUFF for detailed air flow curves.

Order Codes

SMBP	-	80	-	S	-	10	-	O
①		②		③		④		⑤

① Type / Version

Metal Breather; Push-on version	**SMBP**

② Cap Diameter / Material / Surface Finishing

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

③ Label

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

④ Air Filter Element (Material / Micron Rating)

Without Breather Function	**0**
10 µm Foam / PUR (standard option)	**10**
40 µm Foam / PUR	**40**

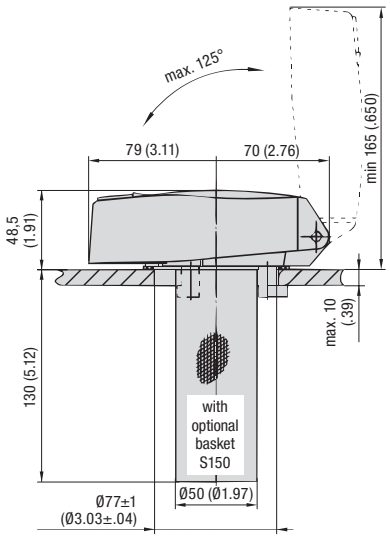
Contact STAUFF for alternative materials / micron ratings.

⑤ Dipstick

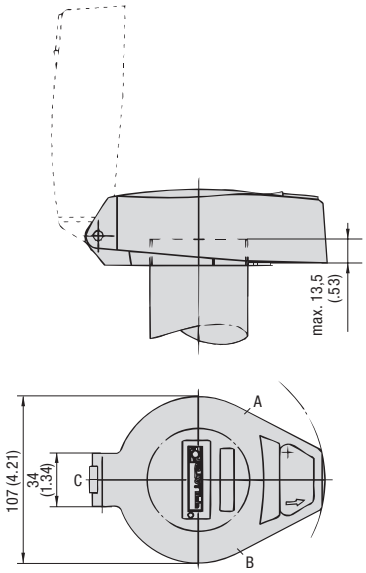
Without dipstick (standard option)	**0**

Dimensional drawings: All dimensions in mm (in).

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



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



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

Contact STAUFF for alternative materials.

Accessories / Options

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

Order Codes

SMBL - C - 10 - 1 - S150 - B - O

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	**G32**
Threaded version with female G2-1/2 BSP thread	**G40**
Push-on version for stand pipe mounting	**P**

③ Air Filter Element (Material / Micron Rating)

Without Breather Function	**0**
10 µm Foam / PUR (standard option)	**10**
40 µm Foam / PUR	**40**

Contact STAUFF for alternative materials / micron ratings.

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) (standard option)	**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**
FKM (Viton®)	**V**

⑦ Cap Design

Breather cap made of Aluminium, lacquered (light-grey, RAL 9022)	**0**

Dimensional drawings: All dimensions in mm (in).