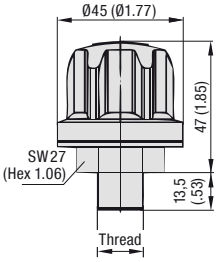
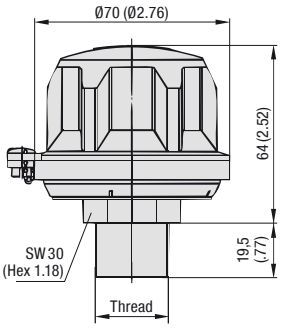
Plastic Filler Breather ▪ Types SPB 1 / 2 / 3 (Screw-In Version)

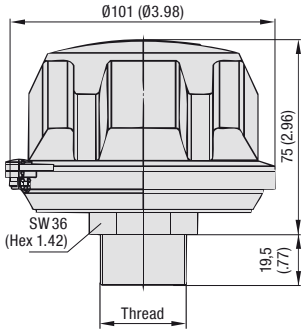


SPB 1



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 BSP thread (ISO 228) or male NPT thread (ANSI B1.20.1)
- Operating temperature range: -40 °C ... +120 °C / -40 °F ... +248 °F

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

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 BSP Thread (ISO 228)	G1/4	●	○	○	B04
	G3/8	●	●	○	B06
	G1/2	●	●	●	B08
	G3/4	○	●	●	B12
	G1	○	○	●	B16

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

● Standard Option

Order Codes

SPB - S - 2 - 10 - B12 - 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	**00**
10 µm Foam / PUR (standard option)	**10**
40 µm Foam / PUR	**40**
3 µm Inorganic Glass-Fibre, pleated	**E03**
10 µm Filter Paper, pleated	**L10**

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

⑤ Connection Thread (Male)

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**
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**

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.

Dimensional drawings: All dimensions in mm (in).