



Plastic Filler Breather SPB Series

Area of Application:

Reservoir breathers and tank filling

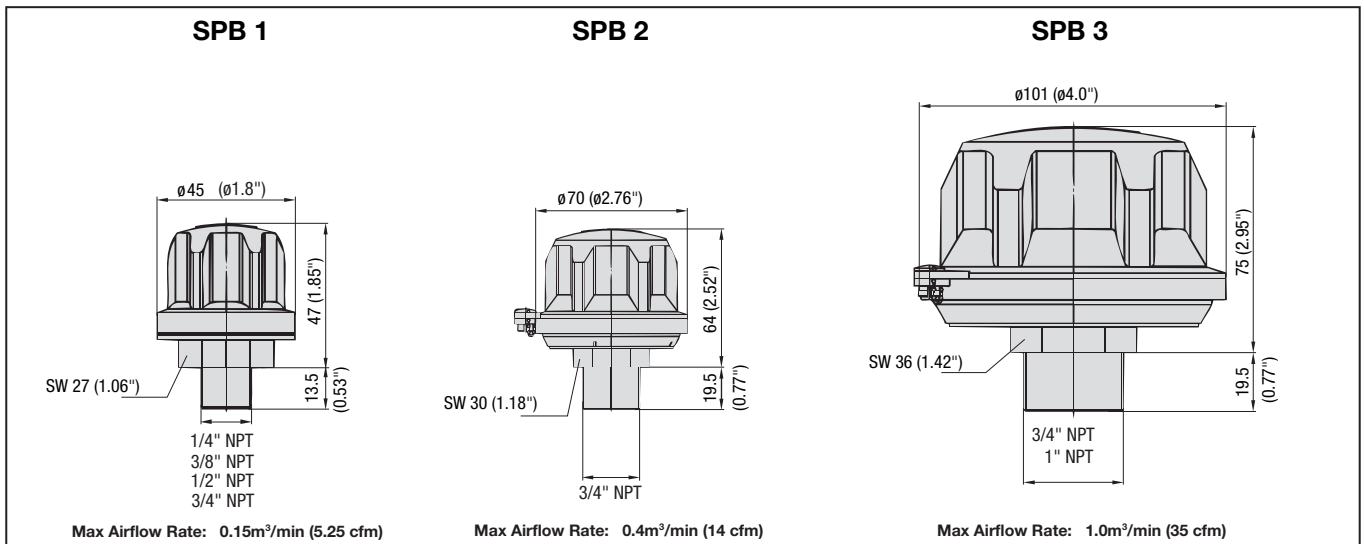
Characteristics/Materials:

- available as screw-in or bayonet version
- non-corrosive
- Temperature range: -40°F (-40°C) to 248°F (120°C)
- Materials: glassfibre reinforced PA, basket PP
- Seals: Buna-N, others on request
- Air filter insert: 10 µm foam (PUR), others are available upon request

Custom built combinations and special requirements available upon request.

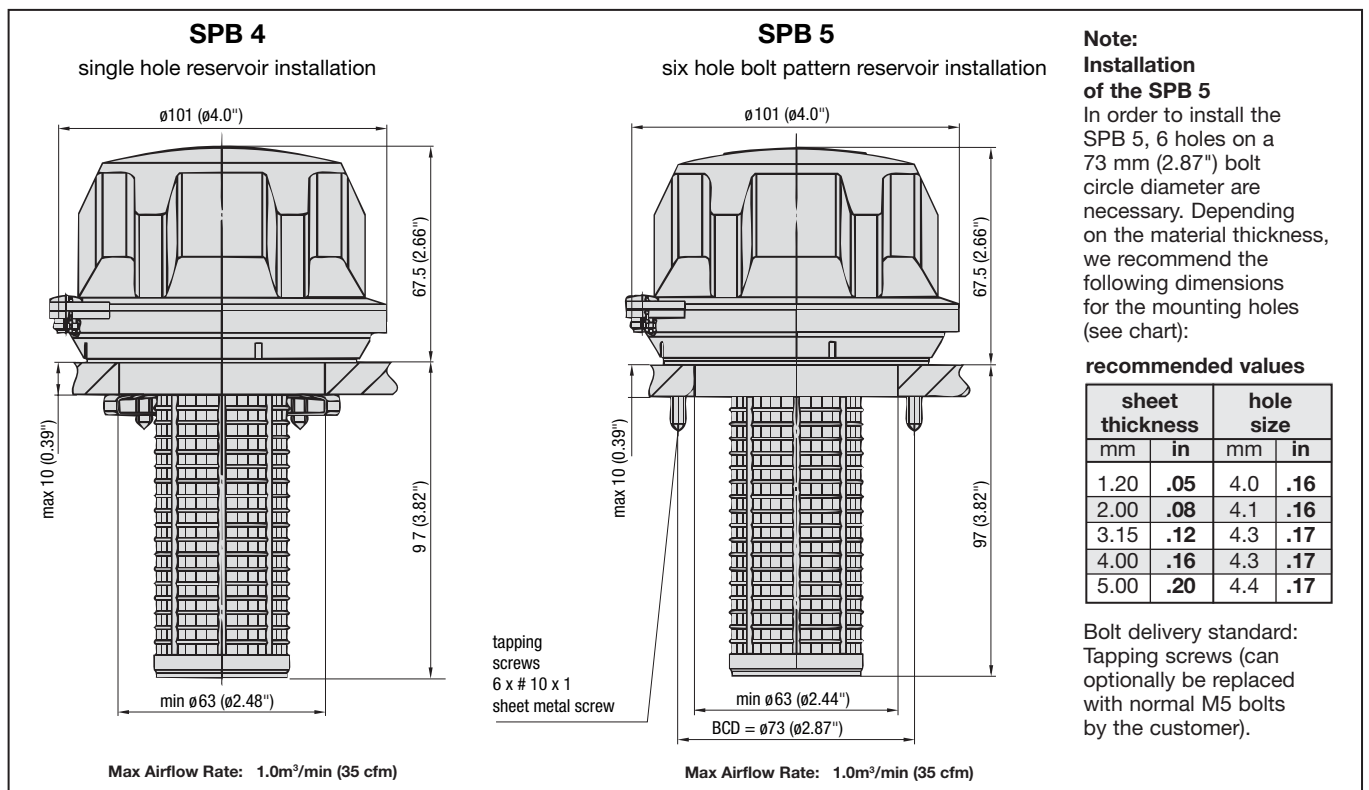


Dimensions and Styles – Screw-in versions (Breathers)



Dimensions and Styles – Bayonet version (Filler Breathers)

Dimensions in mm (inch)



ACCESSORIES

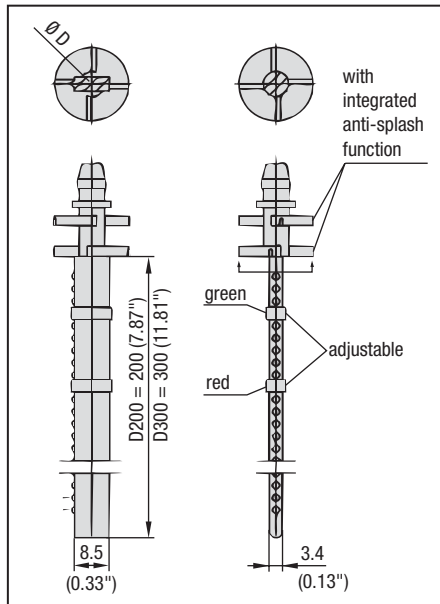
Breather options:

- Dipsticks (material PA)
- Pressurized versions (for SPB 2 up to SPB 5)
- Baskets (for SPB 4 and SPB 5)
- Thread form BSP (for SPB 1 up to SPB 3) - consult factory for availability



Photo: integrated anti-splash feature

Special executions available upon request.



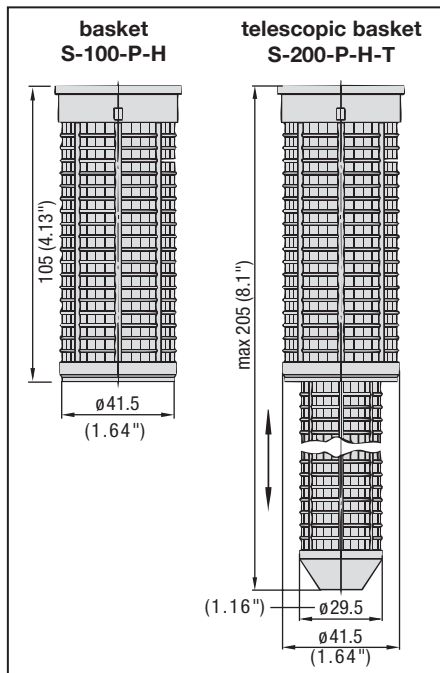
Dipsticks and Anti-splash feature

Dimensions in mm (inch)

Adaptation form	for type	suitable dipstick	Dimension ØD
N04	SPB 1	n/a	-
N06	SPB 1 + 2	DS-1	10 (.39)
N08	SPB 1 – 3	DS-2	14 (.55)
N12	SPB 1	DS-2	14 (.55)
N12	SPB 2 + 3	DS-3	18 (.71)
N16	SPB 3	DS-3	18 (.71)
S-100-P-H	SPB 4 + 5	DS-3	18 (.71)
S-200--P-H-T	SPB 4 + 5	DS-3	18 (.71)
X	SPB 4 + 5	DS-3	18 (.71)

For all filler breathers SPB 1 up to SPB 5, dipsticks (material polyamide) are available as an option. All these dipsticks have an integrated anti-splash function. This anti-splash feature protects the SPB from backspilling fluid and avoids an early air filter breakdown. For filler breathers without dipstick the anti-splash function is achieved by an integrated concave baffle. Because of its size the anti-splash function for the SPB 1 can only be achieved in conjunction with a dipstick. Depending on the chosen filler breather (see table above), dipsticks are available in a maximum of 300 mm lengths. Send factory a drawing on exact length and markings required.

SPB 4 and SPB 5



Pressurized versions:

All filler breathers, except SPB 1, are available as pressurized breathers. In order to achieve an air flow, the tank pressure has to exceed the chosen pressure setting. This feature minimizes foaming and cavitation. Available pressure settings: 3 PSI (0.2 bar), 5 PSI (0.35 bar) and 10 PSI (0.7 bar).

Baskets for SPB 4 and 5

For the filler breathers SPB 4 and SPB 5, 3.7" (95 mm) and 8" (200 mm) baskets (material polypropylene) are available as an option. All baskets have a reinforced 0.8 x 3.5 mm mesh. With the basket S-100-P-H and the telescopic basket S-200-P-H-T, rough dirt particles are filtered out of the medium and a smooth flow into the tank is being ensured.

SPB - S - 2 - 10 - N12 - A - D300

Type	
SPB	Plastic filler breather

Version	
(Pressurisation not available for SPB 1)	
S	without pressurisation (standard)
P1	pressurised at 0.20 bar (3 PSI)
P2	pressurised at 0.35 bar (5 PSI)
P3	pressurised at 0.70 bar (10 PSI)

Dipstick Option	
(none)	without dipstick
D200	dipstick 200 mm
D300	dipstick 300 mm

Anti-splash Option	
A	with anti-splash option (standard)
O	without anti-splash option

Group Size			
size	version	cap diameter	max rate of air flow (m ³ /min)
1	screw-in version	45	0.15
2	screw-in version	70	0.4
3	screw-in version	101	1.0
4	single hole reservoir installation	101	1.0
5	six hole reservoir installation	101	1.0

Connection	
N04	1/4" NPT (for SPB 1)
N06	3/8" NPT (for SPB 1)
N08	1/2" NPT (for SPB 1)
N12	3/4" NPT (for SPB 1, 2, or 3)
N16	1" NPT (for SPB 3)
S-100-P-H	basket (for SPB 4 + 5)
S-200-P-H-T	telescopic basket (for SPB 4 + 5)
X	without basket (for SPB 4 + 5)

* Consult factory for availability of BSP threads
Anti-splash option not available on SPB-S1, 1/4" and 3/8" versions

Micron Rating and Filtermaterial					
code	foam (PUR)	code	Inorganic glassfiber (only SPB 3,4 and 5)	code	filterpaper (only SPB 3,4 and 5)
10	10 µm PUR (standard)	E03	3 µm inorganic glass fiber (pleated)	L10	10 µm filter paper (pleated)
40	40 µm PUR (on request)				

Other micron ratings or filtermaterial available upon request

Airflow plastic filler breathers SPB 1 – 5

