

AIR BREATHERS



Improved Reliability through
Cleaner Transmission Fluid

Lower Maintenance Costs
and Better Performance

Branded Solutions

Quality Air Breathers are Essential

Breathers are integral components of any hydraulic system. A common mistake is treating breathers as a commodity and selecting one based solely on price. Due to particulate contamination found in harsh industrial and mobile environments, this mistake can lead to system inefficiencies and component failures. We offer a portfolio of high quality, cost effective air breathers with various options for a wide range of applications. Choosing the proper breather combats the ingress of airborne contamination while increasing the efficiency and improving the reliability of your hydraulic system.

The Schroeder Difference

Breather elements are typically constructed with low-grade paper or low-quality sponge material, which tend to tear when exposed to moisture and provide insufficient filtration ratings. Conversely, our breather elements are constructed of phenolic resin impregnated paper or synthetic media. Both types provide high resistance to moisture and adequate micron ratings, ensuring proper filtration while extending the operational service life of the breather.



MODEL	PAB1	PABS1	PAB3	PABS3	PABR7
gpm (L/min)	100 (303)	100 (303)	230 (871)	230 (871)	550 (2,082)
cfm (meter ³ /hr)	13 (22)	13 (22)	31 (53)	31 (53)	74 (126)
Connection Type	Threaded	Flanged	Threaded	Flanged	Threaded
Connection Size(s)	½" NPT, SAE-12	3-hole flange	¾" NPT, SAE-12	6-hole flange	¾" NPT, SAE-16
Element Media	3μ paper	3μ paper	3μ paper	3μ paper	3μ paper
Replacement Element	No	No	No	No	Yes
Cap Material	Polyamide	Polyamide	Polyamide	Polyamide	Polyamide
Strainer Material	N/A	Polyamide	N/A	Polyamide	N/A
Clogging Indicator	N/A	N/A	N/A	N/A	Optional*
OPTIONS					
Relief Valve	Optional	Optional	Optional	Optional	N/A
Anti-Splash	Optional	Optional	Optional	Optional	Included
Dipstick	Optional	Optional	Optional	Optional	N/A
Custom Cap	Optional	Optional	Optional	Optional	Optional

Features

- ◆ Long lasting, rugged, metal or glass fiber reinforced polyamide (PA6) housings are ideal for demanding mobile applications
- ◆ Unique anti-splash option prevents oil from spilling out of the breather, extending the life of the element by preventing saturation
- ◆ Visual element change-out indicator available on the PABR7 and the SAB70*
- ◆ Dipstick and integrated check valve for pressurized tanks
- ◆ Private labeling available

Recommendations

Increasing demands for fluid cleanliness levels are requiring more frequent use of high-quality media for the filtration of oils. Schroeder recommends selecting a breather with a filtration rating (micron rating) that is equivalent to or finer than your finest system filters.

Since breathers do get clogged over time, Schroeder recommends the following change-out schedules:

Breathers without pressure gauges or visual indicators

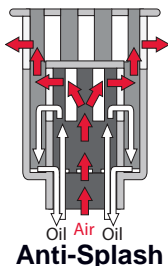
Change your breather every 6 months or with every service interval.

Breathers with pressure gauges

Change your breather at 3 psi pressure drop (at higher pressure drops, the pump can cavitate).



ABF	MBF	SAB22	SABS22	SAB35	SABS35	SAB70
300 (1,136)	1,496 (5,663)	790 (2,990)	790 (2,990)	1,320 (4,997)	1,320 (4,997)	3,960 (14,990)
40 (68)	200 (340)	105 (178)	105 (178)	176 (299)	176 (299)	528 (897)
Threaded / Flanged	Threaded	Threaded	Threaded	Threaded	Threaded	Flanged
¾ NPT, SAE-type flange	1.25" NPT	G 2 ½"	G 2 ½"	G 2 ½"	G 2 ½"	8-hole DN 125 flange
3µ paper	3µ paper	3µ paper	3µ paper	3µ paper	3µ paper	2µ synthetic
No	No	Yes	Yes	Yes	Yes	Yes
Steel	Steel	Steel	Steel	Steel	Steel	Steel
#24 Wire Mesh	N/A	N/A	Steel	N/A	Steel	N/A
N/A	N/A	N/A	N/A	N/A	N/A	Optional*
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Optional	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A



Visual Element



Change-Out Indicators*



Dipstick



Custom Cap

Additional Breathers Available

Desiccant breathers prevent particulate contamination and moisture in the air from entering the tank. Utilizing a two-staged filtration process, solid particulates are drawn through a 2-micron air filter while water vapor is retained by the silica gel inside the breather. Various sizes and connection types are available.



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Applications

Schroeder has over 70 years of experience in applying hydraulic components in both mobile and industrial systems. The industries served include but are not limited to:

Mobile Hydraulics

- ◆ Construction Vehicles
- ◆ Agricultural Equipment
- ◆ Military
- ◆ Lift Equipment
- ◆ Ship Building
- ◆ Mining Technology

Industrial Hydraulics

- ◆ Pulp & Paper
- ◆ Steel Making
- ◆ Plastics
- ◆ Power Gen & Wind Energy
- ◆ Offshore
- ◆ Automotive
- ◆ Machine Tools



Air Breather Check

The reusable Air Breather Check (ABC) takes the guesswork out of when to change your air breather. It provides a visual indication when a vacuum equivalent of 15 inches of water (3.75 kPa) is reached.

For more information, please contact sisales@schroederindustries.com



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Schroeder
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