

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 ingression 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.

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).

Air Breathers

Schroeder offers high quality breathers to effectively combat the ingression of airborne contamination and moisture, therefore increasing the efficiency and reliability of the system.

Available breather series are ABF, PAB, SAB, and D-AB. Many are available with filler strainer, dipstick, indicator and check/relief valve options. The ABC air breather check can takes the guesswork out of when to change your breather.

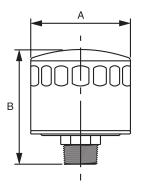
Air Breathers

Suction Separators and

ABF-3/10 ABF-3/10-M-P12 ABF-S40 ABF-S40-M-P12 MBF-3-M-P20 MBF-10-M-P20

Features and Benefits

- Durable metal housing
- Optional filler strainer
- Large pleated surface areas offers high dirt holding and air flow capacity
- NPT or Flange adapter available
- Available with three micron rating







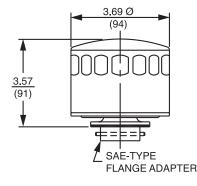
Specifications

Model Number	A	В	Adapter Type	Minimal Micron Retention	Max Flow Rate	Air Flow/ psi Drop
ABF-3/10 ABF-3/10-M-P12	3.69 (94)	4.28 (109)	.75" NPT Nylon .75" NPT Steel	3 3	40 SCFM	0.4 psi at 20 SCFM- 1.25 psi at 40 SCFM
ABF-S40 ABF-S40-M-P12	3.69 (94)	4.28 (109)	.75" NPT Nylon .75" NPT Steel	40 40	40 SCFM	0.29 psi at 20 SCFM- 1.06 psi at 40 SCFM
MBF-3-M-P20 MBF-10-M-P20	5.06 (128)	8.31 (211)	1.25" NPT Steel	3 10	200 SCFM	0.3 psi at 70 SCFM- 1.25 psi at 200 SCFM

SCFM = Standard Cubic Feet per Minute

ABF-3/10-F ABF-S40-F

These breathers are designed for retrofit on hydraulic reservoirs using the SAE-type flange fill port assembly.

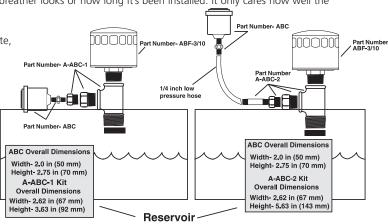


Breathers with Flange Adapters



The Air Breather Check (ABC) takes the guesswork out of when to change your air breather because it doesn't care how dirty the air breather looks or how long it's been installed. It only cares how well the

breather is working. The air breather check is calibrated in inches of water and will activate, providing a visual indication, when a vacuum equivalent of 15 inches of water (3.75 kPa) is reached. The ABC can be reset simply by depressing the yellow button and used over and over again.



Air Breather Check (ABC)

An Indicator For Your Air Breather



Filler Breather with **Strainer**

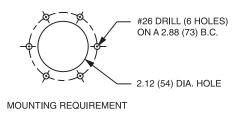
ABF-3/10-S ABF-S40-S ABF-3/10-S6 ABF-S40-S6

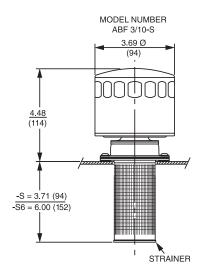
The strainer used here is #24 mesh and is available in the lengths shown.

Model Number	Adapter Type	Minimal Micron Retention	Max Flow Rate	Air Flow/ psi Drop
ABF-3/10-S ABF-3/10-S6	SAE-type flange	10 10	40 SCFM	0.4 psi at 20 SCFM - 1.25 psi at 40 SCFM
ABF-S40-S ABF-S40-S6	SAE-type flange	40 40	40 SCFM	0.29 psi at 20 SCFM - 1.06 psi at 40 SCFM

SCFM = Standard Cubic Feet per Minute

To replace breather only, order ABF-3/10-F or ABF-S40-F.





SAME DAY SHIPMENT MODEL AVAILABLE!

Air Breathers

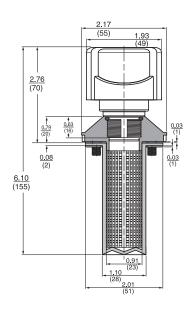
Air Breathers

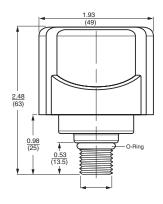
Features and Benefits

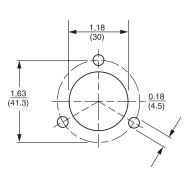
- Durable synthetic Nylon 6 housing
- Phenolic resin impregnated filter element
- Standard Buna N O-Ring

D = Dipstick

- Available with anti-splash or relief valve
- Optional customer logo (contact factory)
- Optional dipstick (contact factory)







PAB1 **Breather**



PABS1 **Breather**



Max. Flow Rate: 7 SCFM / 51 gpm at .15 psi

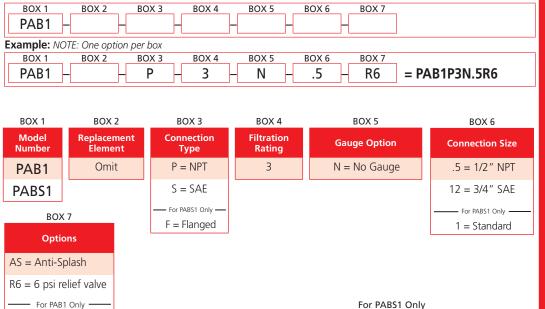
13 SCFM / 100 gpm at .6 psi

Filtration Rating: 3 µm absolute

Operational Temperature: -22° to 212°F (-30° to 100°C)

Specifications

How to Build a Valid Model Number for a Schroeder PAB1:



Filter Model Number Selection

Same Day Shipment Model

NOTE:

Contact factory for lead time and minimum order quantity for other models.

PAB1M3N22

Replacement Elements:

PAB3 **Breather**





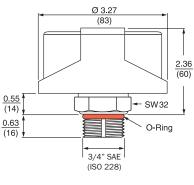
Features and Benefits

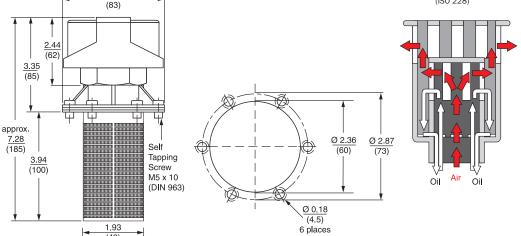
- Durable synthetic Nylon 6 housing
- Phenolic resin impregnated filter element
- Standard Buna N O-Ring
- Available with anti-splash or relief valve
- Optional customer logo (contact factory)

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Optional dipstick (contact factory)





Specifications

Max. Flow Rate: 14 SCFM / 105 gpm at .15 psi

30 SCFM / 230 gpm at .6 psi

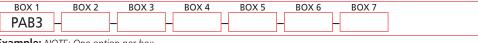
Filtration Rating: 3 µm absolute

Operational Temperature: -22° to 212°F (-30° to 100°C)

Filter Model Number Selection

Same Day **Shipment** Model

How to Build a Valid Model Number for a Schroeder PAB3:



Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	_
PAB3 -	_	- P -	- 3 -	- N -	75 -	- R6	= PAB3P3N.75R6

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6
Model Number	Replacement Element	Connection Type	Filtration Rating	Gauge Option	Connection Size
PAB3	Omit	P = NPT	3	N = No Gauge	.75 = 3/4" NPT
PABS3		S = SAE			12 = 3/4" SAE
BOX 7		For PABS3 Only			For PABS3 Only
Ontions		— F = Flanged —			1 = Standard

NOTE:

Contact factory for lead time and minimum order quantity for other models. AS = Anti-SplashR6 = 6 psi relief valve

For PAB3 Only Replacement Elements: PABM3N22 D = Dipstick

For PABS3 Only

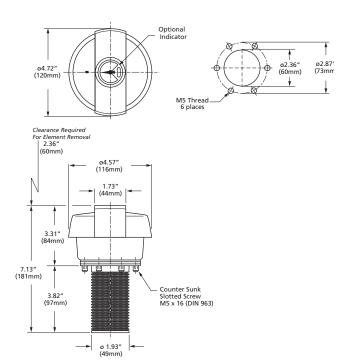
SAME DAY SHIPMENT MODEL AVAILABLE!

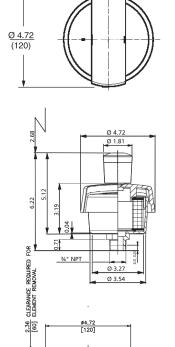
Air Breathers

Air Breathers

Features and Benefits

- Durable synthetic Nylon 6 housing
- Phenolic resin impregnated filter element
- Standard Buna N O-Ring
- Integrated anti-splash insert for PABR7 only
- Optional differential gauge
- Optional customer logo (contact factory)









Max. Flow Rate: 35 SCFM / 260 gpm at .15 psi 64 SCFM / 475 gpm at .6 psi

Filtration Rating: 3 μm

Operational Temperature: -22° to 212°F (-30° to 100°C)

Range of Indication: 0.5 psi

[90]

How to Build a Valid Model Number for a Schroeder PABR7: BOX 1 PABR7 Example: NOTE: One option per box BOX 2 BOX 4 BOX 5 BOX 6 BOX 1 BOX 3 PABR7 = PABR7P3N.75AS P 3 N AS .75 BOX 5 BOX 6 BOX 1 BOX 2 BOX 3 BOX 4 Model Connection Filtration **Connection Size** Options **Gauge Option** Number Туре Rating .75 = 3/4" NPT P = NPT3 N = No Gauge PABR7 AS = Anti-Splash1 = 1" SAEW = With Gauge PABSR7 S = SAEFor PABSR7 Only For PABSR7 Only F = FlangedReplacement Elements: R-PAB7-3

Filter Model Number Selection Same Day Shipment Model

NOTE:

Contact factory for lead time and minimum order quantity for other models.

SAB22 Breather

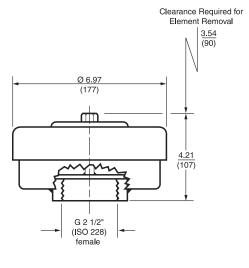


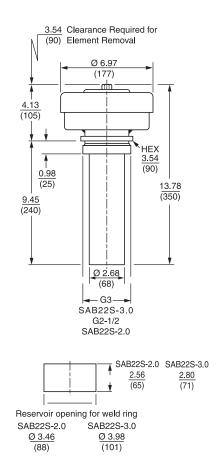
SABS22 Breather



Features and Benefits

- Durable steel housing
- Wide range of flow rates
- Replaceable element





Specifications

Max. Flow Rate: 90 SCFM / 685 gpm at .15 psi

105 SCFM / 790 gpm at .6 psi

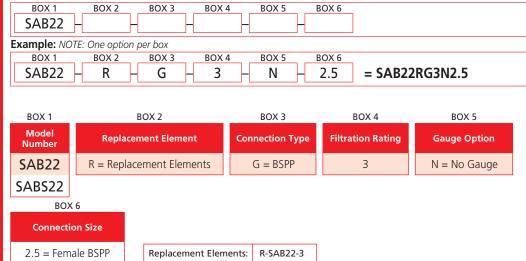
Filtration Rating: 3 µm absolute, Phenolic resin impregnated filter element

Connection: G2 ½" female thread

Lid: Removable lid to access fill port

Filter Model Number Selection

How to Build a Valid Model Number for a Schroeder SAB22:



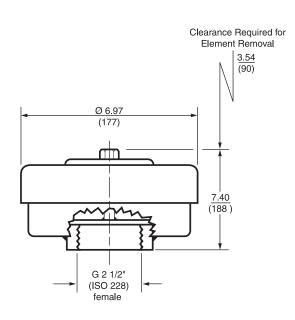
SAME DAY SHIPMENT MODEL AVAILABLE!

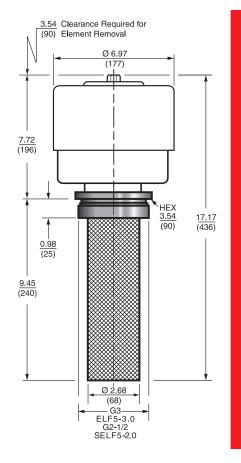
Air Breathers

Air Breathers

Features and Benefits

- Durable steel housing
- Wide range of flow rates
- Replaceable element





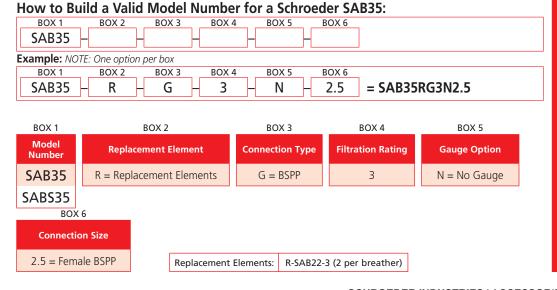
SAB35 **Breather**

SABS35 **Breather**



Max. Flow Rate: 127 SCFM / 950 gpm at .15 psi 176 SCFM / 1320 gpm at .6 psi Filtration Rating: 3 µm absolute, Phenolic resin impregnated filter element Connection: G2 1/2" female thread Lid: Removable lid to access fill port

Specifications



Filter Model Number Selection

Same Day Shipment Model

NOTE:

Contact factory for lead time and minimum order quantity for other models.

Breather

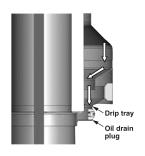
SAB70

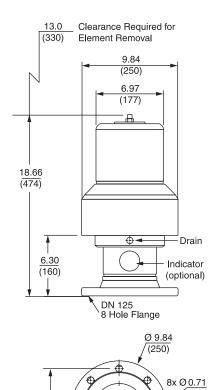
Features and Benefits

- Ideal for large reservoir with high return flow
- Durable steel housing
- Replaceable element
- Unique Oil Mist Trap design
- Optional pressure indicator

Oil Mist Trap

The oil mist in the filter is collected in a "drip tray" and is returned safely to the tank, or it can be drained via an oil drain plug.





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Specifications

Max. Flow Rate: 340 SCFM / 2560 gpm at .15 psi

528 SCFM / 3960 gpm at .6 psi

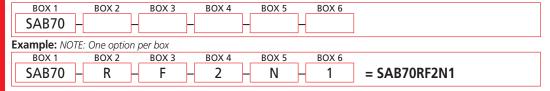
Filtration Rating: 2 μm Excellement® Z-Media®

Connection: 8 bolt DN 125 flange

Filter Model Number

Selection

How to Build a Valid Model Number for a Schroeder SAB70:





Replacement Elements: R-SAB70-Z2