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.

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.
**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 ingestion 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.

### 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

### Options

- Relief Valve
- Anti-Splash
- Dipstick
- Custom Cap

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PAB1</th>
<th>PAB3</th>
<th>PABR7</th>
<th>ABF</th>
<th>MBF</th>
<th>SAB22</th>
<th>SAB22</th>
<th>SAB35</th>
<th>SAB35</th>
<th>SAB70</th>
</tr>
</thead>
<tbody>
<tr>
<td>gpm  L/min</td>
<td>100  (303)</td>
<td>230  (871)</td>
<td>550  (2,082)</td>
<td>500  (1,488)</td>
<td>790  (2,899)</td>
<td>1,320  (4,267)</td>
<td>3,960  (14,990)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cfm  meter³/hr</td>
<td>13  (22)</td>
<td>31  (53)</td>
<td>74  (126)</td>
<td>40  (68)</td>
<td>105  (178)</td>
<td>176  (299)</td>
<td>528  (897)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Connection Type**
- Threaded
- Flanged
- Threaded / Flanged

**Connection Size(s)**
- ½” NPT, SAE-12
- ¾” NPT, SAE-12
- ¾” NPT, SAE-type flange
- 1.25” NPT

**Element Media**
- 3 µm paper
- 3 µm synthetic

**Replacement Element**
- No
- Yes

**Cap Material**
- Polyamide

**Strainer Material**
- Polyamide
- Polyamide
- #24 Wire Mesh

**Clogging Indicator**
- N/A
- Optional*

**OPTIONS**

- Relief Valve
- Anti-Splash
- Dipstick
- Custom Cap

**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).
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### Specifications

- **Model**: PAB1, PABS1, PAB3, PABS3, PABRT, ABF, MBF, SAB23, SAB26, SAB35, SAB36, SAB70
- **GPM (L/min)**: 100 (303), 100 (303), 230 (871), 230 (871), 550 (2,082), 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)
- **CFM (meter^3/hr)**: 13 (22), 13 (22), 31 (53), 31 (53), 74 (126), 40 (68), 200 (340), 105 (178), 105 (178), 176 (299), 176 (299), 528 (897)
- **Connection Type**: Threaded, Flanged, Threaded / Flanged
- **Connection Size(s)**: 
  - ½" NPT, SAE-12
  - ¾" NPT, SAE-16
  - 1.25" NPT G 2 ½"
- **Element Media**: 3µ paper, 3µ paper, 3µ paper, 3µ paper, 3µ paper, 3µ paper, 3µ paper, 3µ paper, 3µ paper, 3µ paper, 2µ synthetic
- **Replacement Element**: Yes
- **Cap Material**: Polyamide, Polyamide
- **Strainer Material**: Polyamide, Polyamide
- **Clogging Indicator**: Optional
- **Options**: Relief Valve, Anti-Splash, Dipstick, Custom Cap

### Recommendations

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For more information, please contact sales@schroederindustries.com