Glass-Filled Nylon and Metal Breathers
IP65 Rated, Metal, Screw-on and Lockables
Reservoir Equipment

Compact and lightweight reservoir solutions

IP65 Co-polymer breathers and metal breathers

The IP65 rated range of moulded, non-corrodible, glass-filled nylon air breathers combine strength with a lightweight design. Single hole, 6-hole, 3-hole and screw-on options are available; plus metal air breather, filler breather and lockable options are a proven range of quality reservoir solutions.

Contact Information:

Parker Hannifin
Hydraulic Filter Division Europe

European Product Information Centre
Freephone: 00800 27 27 5374
(from AT, BE, CH, CZ, DE, EE, ES, FI, FR, IE, IT, PT, SE, SK, UK)
filtrationinfo@parker.com

www.parker.com/hfde

Product Features:

• Moulded in non-corrodible, glass-filled nylon – strong and light.
• Single hole, 6 hole and 3 hole installation.
• Screw-on breather range – G½ and G¾ options.
• Compact range – G¼, G¾, R½ and R¾ options.
• Metal filler breathers – pressurized threaded type.
• Metal filler breathers – unpressurized threaded type.
• Filter flange type.
• Lockable range for reservoir security and oil protection.
Specification for Single and 6 Hole Installation

Option 1

Construction:
Moulded in non-corrodible glass-filled nylon combining strength with a lightweight design.

Options:
(1) single (63mm dia) hole Filler breather installation that eliminates drilled and tapped holes using self-locking clamps.
(2) 6 hole Filler Breather Installation that uses 6 x No 10 thread forming screws.
(3) 3 hole filler breather utilises 3 x zinc and clear chromate plated steel screws.

Strainers:
Unique design diffuses oil flow into the reservoir.
(1) Single length in polypropylene (95mm length)
(2) 2-piece telescopic in polypropylene (195mm length max.)

Filtration element:
Expanded polyurethane foam, 10 micron Absolute.

Seals:
Nitrile.

Working temperature:
-30°C to +90°C.

Pressurised filler breathers:
Available in 3 pressure options to maintain a positive pressure in a reservoir.

Pressurisation options:
0.2, 0.35 and 0.7 bar crack pressure.

Pressurisation valve:
Nylon/Nitrile.

Dipstick:
Available for use with options 1 and 2. Dipsticks are available in 2 lengths and in packs of 10.

Dipstick material:
ABS.

Hi/Lo indicators:
Acetal. Adjustable Red/Green level indicators.

Dipstick lengths:
200mm and 400mm.

Breather weight:
0.2Kg.

Anti-splash feature:
The unique design anti-splash feature is standard on all options 1 and 2 and allows for a dipstick to be fitted if required.

Option 1 Filler Breathers (Single Hole Installation)

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supersedes</th>
<th>Description 10µ abs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB98212011</td>
<td>AB.98212011.UC</td>
<td>Pressurised 0.2bar with 95mm strainer</td>
</tr>
<tr>
<td>AB98213011</td>
<td>AB.98213011.UC</td>
<td>Pressurised 0.2bar without strainer</td>
</tr>
<tr>
<td>AB98212001</td>
<td>AB.98212001.UC</td>
<td>Pressurised 0.35bar with 95mm strainer</td>
</tr>
<tr>
<td>AB98212021</td>
<td>AB.98212021.UC</td>
<td>Pressurised 0.2bar with telescopic strainer</td>
</tr>
<tr>
<td>AB98213021</td>
<td>AB.98213021.UC</td>
<td>Pressurised 0.35bar with telescopic strainer</td>
</tr>
<tr>
<td>AB98217001</td>
<td>AB.98217001.UC</td>
<td>Pressurised 0.7bar without strainer</td>
</tr>
<tr>
<td>AB98217011</td>
<td>AB.98217011.UC</td>
<td>Pressurised 0.7bar with 95mm strainer</td>
</tr>
<tr>
<td>AB98217021</td>
<td>AB.98217021.UC</td>
<td>Pressurised 0.7bar with telescopic strainer</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Part number | Supersedes | Description 10µ abs. |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AB98210011</td>
<td>AB.98210011.UC</td>
<td>Filler breather with 95mm strainer</td>
</tr>
<tr>
<td>AB98210021</td>
<td>AB.98210021.UC</td>
<td>Filler breather with telescopic strainer</td>
</tr>
<tr>
<td>AB98210001</td>
<td>AB.98210001.UC</td>
<td>Filler breather without strainer</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Filler Breathers (6 Hole Installation)

Option 2

Note 1. Un-pressurised 6 hole fixing:
Form 6 off tank mounting holes between Ø4.0 and 4.4mm (dependent on the material and thickness – see guide below) equispaced on 70-73mm P.C.D. to suit supplied No.10 thread forming screws.

Note 2. Pressurised 6-hole fixing:
Form 6 off tank mounting holes between Ø4.0 and Ø4.4mm (dependent on the material and thickness – see guide below) equispaced on 73mm P.C.D. to suit supplied No.10 thread forming screws.

Note 3. Reservoir mounting guide

<table>
<thead>
<tr>
<th>Sheet thickness mm</th>
<th>Hole size mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>4.0</td>
</tr>
<tr>
<td>2.0</td>
<td>4.10</td>
</tr>
<tr>
<td>3.15</td>
<td>4.30</td>
</tr>
<tr>
<td>4.0</td>
<td>4.30</td>
</tr>
<tr>
<td>5.0</td>
<td>4.40</td>
</tr>
</tbody>
</table>

Telescopic Strainer
The telescopic strainer design is ideal, where reservoir depth allows, to increase the surface area of the strainer, improving still further its straining ability, oil flow-through and allowing for longer dipstick lengths.

Option 2. 6 Hole Filler Breather – Pressurised

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supersedes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB98817011</td>
<td>AB98817011.UC</td>
<td>Pressurised 0.7bar with 95mm strainer</td>
</tr>
<tr>
<td>AB98812001</td>
<td>AB98812001.UC</td>
<td>Pressurised 0.2bar without strainer</td>
</tr>
<tr>
<td>AB98812011</td>
<td>AB98812011.UC</td>
<td>Pressurised 0.2bar with 95mm strainer</td>
</tr>
<tr>
<td>AB98812021</td>
<td>AB98812021.UC</td>
<td>Pressurised 0.35bar with telescopic strainer</td>
</tr>
<tr>
<td>AB98813001</td>
<td>AB98813001.UC</td>
<td>Pressurised 0.35bar without strainer</td>
</tr>
<tr>
<td>AB98813011</td>
<td>AB98813011.UC</td>
<td>Pressurised 0.35bar with 95mm strainer</td>
</tr>
<tr>
<td>AB98813021</td>
<td>AB98813021.UC</td>
<td>Pressurised 0.35bar with telescopic strainer</td>
</tr>
<tr>
<td>AB98817001</td>
<td>AB98817001.UC</td>
<td>Pressurised 0.7bar without strainer</td>
</tr>
<tr>
<td>AB98817021</td>
<td>AB98817021.UC</td>
<td>Pressurised 0.7bar with telescopic strainer</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Option 2. 6 Hole Filler Breathers – Non-Pressurised

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supersedes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB98810011</td>
<td>AB98810011.UC</td>
<td>Filler breather with 95mm strainer</td>
</tr>
<tr>
<td>AB98810021</td>
<td>AB98810021.UC</td>
<td>Filler breather with telescopic strainer</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Filler Breathers
Reservoir Equipment

Option 3 Filler Breathers (3 Hole Installation)

New Options Fully Tested
As part of the design development programme for the new IP65 Filler Breathers, extensive performance and endurance testing was carried out to ensure durability and efficiency.

3-hole Filler Breathers (6-hole available)

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB68110</td>
<td>Filler breather without strainer</td>
</tr>
<tr>
<td>AB68118</td>
<td>Filler breather with 95mm strainer</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.  
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability. 
Note 3: Not suitable for use with B.68206/207  
Note 4: 6-hole AB.68910/AB.68918 option available.

Dipstick Options

Dipstick Ordering

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supersedes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS6206</td>
<td>DIP.206</td>
<td>10 x 200mm Dipsticks</td>
</tr>
<tr>
<td>BS6207</td>
<td>DIP.207</td>
<td>10 x 400mm Dipsticks</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection. 
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Dipsticks
The dipstick, available in 2 lengths – 200mm and 400mm, can be cut to the required length or left as it is and the Hi/Lo indicators moved and positioned on the dipstick itself by squeezing the sides of the indicator and repositioning along the dipstick.

Note:
Form 3 off tank mounting holes between Ø4.0 and Ø4.4mm (dependent on the material and thickness – see chart for guide) equispaced on 41.3 P.C.D. to suit No. 10 thread forming screws supplied.
Screw-On Type Air Breathers
Reservoir Equipment

Standard Screw-On Breathers - Specification

**Option 1 – G\(1/2\) and G\(3/4\) (Ø101)**

**Construction:**
Moulded in non-corrodible glass-filled nylon combining strength with a lightweight design.

**Option 1:**
2 screw on type air breathers are available – G\(1/2\) or G\(3/4\) threaded base models.

**Filtration element:**
Expanded polyurethane foam, 10 micron absolute.

**Seals:**
Nitrile.

**Working temperature:**
-30°C to +90°C.

**Pressurised air breathers:**
Available in 3 pressure options to maintain a positive pressure in a reservoir.

**Pressurisation options:**
0.2, 0.35 and 0.7 bar crack pressure.

**Pressurisation valve:**
Nylon/Nitrile.

**Dipstick:**
Available for use with all options. Dipsticks are available in 2 lengths and in packs of 10.

**Dipstick material:**
ABS.

**Hi/Lo indicators:**
Acetal. Adjustable red/green level indicators.

**Dipstick lengths:**
200mm and 400mm.

**Breather weight:**
0.2Kg.

**Anti-splash feature:**
The unique design anti-splash feature is standard on option 1 and allows for a dipstick to be fitted if required.

### Pressure Drop Flow Curve

**AB98XXX Screw-on Non-Pressurised Pressure Drop Curves**

![Pressure Drop Flow Curve Diagram]

Note: For pressure drop information on the Option 1. Pressurised consult Parker Filtration.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supersedes</th>
<th>Description 10µ nom Abs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB98610101</td>
<td>AB.98610101.UC</td>
<td>G(1/2) Un-pressurised</td>
</tr>
<tr>
<td>AB98612101</td>
<td>AB.98612101.UC</td>
<td>G(1/2) pressurised 0.2 bar</td>
</tr>
<tr>
<td>AB98613101</td>
<td>AB.98613101.UC</td>
<td>G(1/2) pressurised 0.35 bar</td>
</tr>
<tr>
<td>AB98617101</td>
<td>AB.98617101.UC</td>
<td>G(1/2) pressurised 0.7 bar</td>
</tr>
<tr>
<td>AB98410101</td>
<td>AB.98410101.UC</td>
<td>G(3/4) Un-pressurised</td>
</tr>
<tr>
<td>AB98413101</td>
<td>AB.98413101.UC</td>
<td>G(3/4) pressurised 0.2 bar</td>
</tr>
<tr>
<td>AB98413101</td>
<td>AB.98413101.UC</td>
<td>G(3/4) pressurised 0.35 bar</td>
</tr>
<tr>
<td>AB98417101</td>
<td>AB.98417101.UC</td>
<td>G(3/4) pressurised 0.7 bar</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Screw-On Type Air Breathers
Reservoir Equipment

Compact Screw-On Breathers - Specification

**Option 2 – G\(^{1/4}\), G\(^{3/8}\), R\(^{1/2}\) and R\(^{3/4}\) (Ø40)**

**Construction:**
G\(^{1/4}\), G\(^{3/8}\), R\(^{1/2}\) and R\(^{3/4}\) cap and base plate mouldings in nylon 66.

**Element:**
Expanded Polyurethane foam, 10 micron absolute.

**Dipstick:**
Available for use with R\(^{1/2}\) and R\(^{3/4}\).

**Dipstick material:**
ABS.

**Hi/Lo indicators:**
Acetal adjustable red/green level indicators.

**Dipstick lengths:**
200mm and 400mm (packs of 10).

**Breather weights:**
0.028Kg

**Pressure Drop Flow Curve**

Note: For pressure drop information on G\(^{3/8}\), R\(^{1/2}\) and R\(^{3/4}\), consult Parker Filtration.

**Ordering Information**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supersedes</th>
<th>Description 10p abs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB663101</td>
<td>AB.663101.UC</td>
<td>G(^{1/4}) Un-pressurised</td>
</tr>
<tr>
<td>AB66X101</td>
<td>AB.66X101.UC</td>
<td>G(^{3/8}) Un-pressurised</td>
</tr>
<tr>
<td>AB66Y101</td>
<td>AB.66Y101.UC</td>
<td>R(^{1/2}) Un-pressurised</td>
</tr>
<tr>
<td>AB66Z101</td>
<td>AB.66Z101.UC</td>
<td>R(^{3/4}) Un-pressurised</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Screw-On Type Air Breathers - Specification

Option 3 – G\(\frac{3}{8}\), G\(\frac{1}{2}\) and G\(\frac{3}{4}\) (Ø70)

Construction:
Mouldings in glass-filled nylon and glass coupled polypropylene.

Element:
Expanded Polyurethane foam, 10 micron absolute.

Seals:
Nitrile.

Pressurised air breathers:
Available G\(\frac{3}{8}\), G\(\frac{1}{2}\) and G\(\frac{3}{4}\),
3 pressure options to maintain a positive pressure in a reservoir.

Pressurisation options:
0.2, 0.35 and 0.7 bar crack pressure.

Pressurisation valve:
Nylon.

Dipstick:
Available for use with G\(\frac{3}{8}\), G\(\frac{1}{2}\) and G\(\frac{3}{4}\).

Dipstick material:
Mini-series in brass.

Hi/Lo indicators:
Acetal adjustable red/green level indicators.

Dipstick lengths:
200mm and 400mm (packs of 10).

Breather weights:
0.075Kg, Mini-series – 0.019Kg.

Ordering Information

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supersedes</th>
<th>Description 10µ abs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB665101</td>
<td>SAB.5101</td>
<td>G(\frac{3}{8}) Un-pressurised</td>
</tr>
<tr>
<td>AB667101</td>
<td>SAB.7101</td>
<td>G(\frac{1}{2}) Un-pressurised</td>
</tr>
<tr>
<td>AB668101</td>
<td>SAB.6101</td>
<td>G(\frac{3}{4}) Un-pressurised</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
## Filler Breathers (Metal)

### Reservoir Equipment

**Metal Airbreather/Filler breather Specification**

![Diagram of Filler Breathers (Metal)]

**Locking lug option (5661)**

For added security, certain Parker Filtration Metal Filler Breather Filters can be specified with a locking lug option.

### Ordering Information

#### Standard products table

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supersedes</th>
<th>Replacement cap</th>
<th>Supersedes</th>
<th>Displacement l/min</th>
<th>Crack pressure</th>
<th>Micron rating</th>
<th>Air flow m³/min</th>
<th>Thread</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAB156210</td>
<td>SAB.1562.10</td>
<td>N/A</td>
<td>N/A</td>
<td>430</td>
<td>10 g abs</td>
<td>0.45</td>
<td>6/4</td>
<td>0.20kg</td>
<td></td>
</tr>
<tr>
<td>SAB156310</td>
<td>SAB.1563.10</td>
<td>N/A</td>
<td>N/A</td>
<td>430</td>
<td>10 g abs</td>
<td>0.15</td>
<td>6/4</td>
<td>0.08kg</td>
<td></td>
</tr>
<tr>
<td>AB116310</td>
<td>AB.1163.10</td>
<td>CAP116310</td>
<td>CAP1163.10</td>
<td>430</td>
<td>10 g abs</td>
<td>0.45</td>
<td>N/A</td>
<td>0.24kg</td>
<td></td>
</tr>
<tr>
<td>AB138010</td>
<td>AB.1380.10</td>
<td>CAP138010</td>
<td>CAP1380.10</td>
<td>135</td>
<td>10 g abs</td>
<td>0.15</td>
<td>N/A</td>
<td>0.08kg</td>
<td></td>
</tr>
<tr>
<td>5561</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>430</td>
<td>10 g abs</td>
<td>0.45</td>
<td>6/4</td>
<td>0.24kg</td>
<td></td>
</tr>
<tr>
<td>PAB1730105</td>
<td>PAB.1730.10.5</td>
<td>CAP1730105</td>
<td>CAP1730.10.5</td>
<td>430</td>
<td>0.35 bar</td>
<td>10 g abs</td>
<td>0.45</td>
<td>N/A</td>
<td>0.27kg</td>
</tr>
<tr>
<td>PAB17301010</td>
<td>PAB.1730.10.10</td>
<td>CAP17301010</td>
<td>CAP1730.10.10</td>
<td>430</td>
<td>0.35 bar</td>
<td>10 g abs</td>
<td>0.45</td>
<td>N/A</td>
<td>0.27kg</td>
</tr>
<tr>
<td>SPA1731105</td>
<td>SPA.1731.10.5</td>
<td>N/A</td>
<td>N/A</td>
<td>430</td>
<td>0.35 bar</td>
<td>10 g abs</td>
<td>0.45</td>
<td>6/4</td>
<td>0.20kg</td>
</tr>
<tr>
<td>SPA17311010</td>
<td>SPA.1731.10.10</td>
<td>N/A</td>
<td>N/A</td>
<td>430</td>
<td>0.35 bar</td>
<td>10 g abs</td>
<td>0.45</td>
<td>6/4</td>
<td>0.20kg</td>
</tr>
</tbody>
</table>

**Note 1:** Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.

**Note 2:** Alternate displayed part number selection will require you to contact Parker Filtration for availability.

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**Note:** Dimensions relate to 1163 and 1730 options.  
**Note:** Max. operating temperature = +90°C.
Breather Units

**Small Breather Specification**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Supersedes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H00279001</td>
<td>H00279-001</td>
<td>Small breather 1/4&quot; BSPT thread</td>
</tr>
<tr>
<td>H00279002</td>
<td>H00279-002</td>
<td>Small breather 3/8&quot; BSPT thread</td>
</tr>
<tr>
<td>H00279003</td>
<td>H00279-003</td>
<td>Small breather 1/2&quot; BSPT thread</td>
</tr>
</tbody>
</table>

**Tank installation notes**

1. **Un-pressurised 6 hole fixing (Type 1163)**
   - Form off tank mounting holes between Ø4.0 and Ø4.4 (dependant on the material and thickness, consult Parker Filtration) equispaced on 70.0-73.0 P.C.D. to suit No. 10 thread forming screws supplied.

2. **Pressurised 6 hole fixing (Type 1730)**
   - Form 6 off mounting holes between Ø4.0 and Ø4.4 equispaced on 73.0 P.C.D. to suit No. 10 thread forming screws supplied.

3. **Un-pressurised 3 hole fixing (Type 1380)**
   - Form 3 off tank mounting holes between Ø5.25 – 5.35 mm equispaced on 41.3 P.C.D. to suit No. 10 thread forming screws supplied.
Lockable Filler Breather
Reservoir Equipment

Installation Details

Tank Mounting

Stand Pipe Mounting

Lockable Filler Breather Selection

Total assembly pressure drop flow curve – 10µ elements

Ordering Information

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFC622142</td>
<td>Non-breathing (No element) Clamp mounting with strainer</td>
</tr>
<tr>
<td>LFC622212</td>
<td>10µ nom element, G2 thread with strainer</td>
</tr>
<tr>
<td>LFC622242</td>
<td>10µ nom element, clamp mounting with strainer</td>
</tr>
<tr>
<td>LFC622432</td>
<td>10µ nom vented (air in) push on mounting with strainer</td>
</tr>
<tr>
<td>LFC622122</td>
<td>Non-breathing (No element) 2&quot; BSF thread with strainer</td>
</tr>
<tr>
<td>LFC622222</td>
<td>10µ nom element, G2/1 thread with strainer</td>
</tr>
<tr>
<td>LFC622411</td>
<td>10µ nom vented (air in) G2 thread without strainer</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.