Poseidon EBS Manual
VERSION 1.3
The Poseidon EBS

This Poseidon EBS (Emergency Breathing System) is a Category A Escape device Compressed air system.

Before use always check position 10-12 on page 5 and 6 in this manual.

Complete service of the Poseidon EBS should be made every 24th month or if the EBS is used in training purpose the complete service should be made every 6th month by Poseidon Diving System AB or approved service station/person.

The Poseidon EBS is intended for use only as an emergency device to assist aircrew members or passengers in making an emergency egress from a submerged aircraft. Due to its limited air volume, it is not intended egressing from depths greater than 10 meters.


All part in the EBS are individually tested according to EN250 Cold Water. The EBS unit is tested and approved according to CAP1034.


WARNING:
Retain this manual for your reference. Review this manual periodically. Improper use, or misuse, of this device could result in serious injury or even death.
Functional overview

Cylinder valve in position OPEN

Serial number and date
1st stage regulator
Cylinder valve
Pressure gauge
Cylinder, 0.4 liter bottle
Purge button
2nd stage regulator
Nose Clip
Nose Clip Holder
Mouthpiece
Low Pressure Hose
Nose Clip Holder
Cylinder valve in position OPEN
Assembly

Inspect the o-ring on the 1st stage tank thread and make sure that sealing surfaces are clean and that the o-ring is lubricated with approved Poseidon product (art no 8516).

Mount the 1st stage on the 0.4 liter bottle tight and firmly (rec. 60 Nm).

WARNING:
Before assembly, make sure all components are intact and without any visible damage. Do not use if there is any sign of damage to the equipment. Repair of any component should only be performed by a service technician that is authorized to service/repair the equipment. Do not try to repair any component without proper training.
Filling instructions

If the pressure is **150 bar or more** - go to position 11 on page 6. Recommended filling pressure is **200 bar/ 2900 psi**. **Maximum** filling pressure is **232 bar/ 3364 psi**. Use Poseidon filling adapter art no 0800-015.

1. **Close** the cylinder valve. **Press** the purge-button on the 2nd stage to ensure that the breathing apparatus is **depressurized** before the filling process begins.

2. **Remove the blanking plug** from the 1st stage. Inspect the O-ring and attach the filling adapter to the 7/16” HP port where the blanking plug was mounted. Make sure the filling adapter is **firmly attached**. Attach the filling hose to the G5/8” thread on the filling adapter.

3. When the filling hose is **firmly attached** to the filling adapter, slowly **open** the valve on the 1st stage by turning the valve handle **counter clockwise**.

4. Slowly open the filling source valve and make sure there are **no leakage**. Fill the Poseidon EBS to **200 bar/ 2900 psi**. **Maximum filling pressure is 232 bar/ 3364 psi**.

5. When the Poseidon EBS if filled, **close** the valve on the filling source.

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**WARNING:**

Before you start filling the bottle, make sure you are well familiarized with these instructions. Maximum pressure of 232 bar/ 3364 psi. **Failure to follow these instructions may lead to injury or death.**
6. Close the valve on the Poseidon EBS

7. Release the pressure by using the purge button on the 2nd stage.

8. Unscrew the filling adapter/hose from the Poseidon EBS.

9. Mount the blanking plug in to the 7/16" HP port of the 1st stage and make sure it’s firmly attached. Before mounting the blanking plug, inspect the o-ring to make sure it’s without any flaws, make sure the o-ring is lubricated and that all sealing surfaces are clean and undamaged.

10. Open the valve [1] on the EBS and check the pressure. If pressure is 150 bar/2176 psi [2] it’s OK to use. If the pressure is below 150 bar / 2176 psi, start the filling procedure from pos 1 on page 4.
11. Attach the Nose Clip in **correct position** on Nose Clip Holder.

12. Spray the mouthpiece with **GUARDIAN SUPERIOR™** disinfection (or other Poseidon approved product). Use **2-3 sprays** and wipe with a cloth or piece of paper.

13. The **Poseidon EBS** is now **ready for use**.

**WARNING:**

Before use, make sure all components are intact and without any visible damage. Do not use if there is any sign of damage to the equipment. Repair of any component should only be performed by a service technician that is authorized to service/repair the equipment. Do not try to repair any component without proper training.
Components

Xstream EBS 1st stage regulator

Cyklon 2nd stage regulator

Nose Clip Holder

Nose Clip

Cylinder, capacity 0.4 liter
Working pressure 200 bar / 2900 psi.

Low Pressure Hose

Spare parts list

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0131-001</td>
<td>Filling hose, 300-200 bar incl safety valve 225 bar</td>
</tr>
<tr>
<td>0400-117</td>
<td>Cylinder, Black 0.4 Liter, M18x1.5, 200 bar/ 2900 psi</td>
</tr>
<tr>
<td>001-95</td>
<td>Pressure gauge</td>
</tr>
<tr>
<td>0130-029</td>
<td>Low Pressure Hose 24”</td>
</tr>
<tr>
<td>0005-009</td>
<td>Mouthpiece</td>
</tr>
<tr>
<td>0050-127</td>
<td>Desinfection, Guardian Superior 100 ml</td>
</tr>
<tr>
<td>0009-013</td>
<td>Nose clip</td>
</tr>
<tr>
<td>0800-015</td>
<td>Filling adapter Poseidon EBS 7/16” - G5/8”</td>
</tr>
<tr>
<td>8516</td>
<td>Lubricant, tube 10 grams</td>
</tr>
<tr>
<td>0013-165</td>
<td>O-ring HP port, Pressure gauge and blanking plug</td>
</tr>
<tr>
<td>0013-395</td>
<td>O-ring 1:st stage tank thread</td>
</tr>
<tr>
<td>0013-164</td>
<td>O-ring LP port (hose connection)</td>
</tr>
<tr>
<td>0010-112</td>
<td>O-ring, Nose Clip Holder</td>
</tr>
</tbody>
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