

## Technical/Safety Data Sheet SeaAir EBS II 0,25l Composite

Compressed air emergency breathing system (CA EBS);

- similar in function to SCUBA gear, it consists of a small cylinder pressurized with atmospheric air and first stage regulator worn in a pouch on the user's lifejacket or survival suit, a pressure gauge, an air hose and a second-stage regulator. The regulator is on-demand, it only delivers air, when the user inhales.



SeaAir EBS II – 0.25l Composite  
cylinder HP artno 21081-1

General	
Maximum Operational depth	Certified to 10m (33ft)
Maximum working pressure	300bar (3002psi)
Cold water performance	EN 4856:2023
Cleaned to hydrocarbon levels <50mg/m <sup>2</sup> & particle level X	No
O-ring materials	Nitrile, EPDM
Lubricants	Poseidon R, Poseidon Oxygen compatible, silicone oil
Warranty	12 months
System length	27cm / 10.63"
Total weight	800g / 1.76lb
2nd stage regulator	
Regulator weight (light version)	151g
Flow Rate	1250 l/min (44 cuft/min)
Technique	Downstream
Safety valve opening pressure	15 +/- 1bar (217 +/- 14psi)
Swiveling	Around axis, can be used either side
Material	ASA, Brass, TPU, Silicone, PU
Venturi assist	Automatic
Inhalation control	Automatic
Anatomic mouthpiece	4532 Poseidon AIR
1st stage regulator	
Flowrate (l/min)	>1700 l/min / 60 cuft/min
Nominal inter-stage pressure	11.5bar (167psi)
Cold water performance	>4 °C
Technique	Diaphragm

Valve technique	Piston Valve
Seat material	Polyetereterketon (PEEK)
Test pressure	450bar (6526psi)
Ports	1 LP (UNF 3/8") / 2 HP (UNF 7/16")
Connection	UNF 5/8" (optional m18)
Built in OPV	In 2:nd Stage
Built in OPV opening pressure	N/A
Material	Brass, plastics, stainless steel and aluminum
Weight	272g/0.60lb
<b>Hose</b>	
Standard hose length	50cm / 20" (alt lengths 60 and 70cm / 24 and 27")
Burst pressure	>100bar (1450psi)
Pull strength	>1000 Newton (225lbs)
Oxygen cleaned	N/A
<b>Cylinder</b>	
Cylinder Material	Carbon Composite
Cylinder Volume / Weight	0.25l / 270g (15.26in <sup>3</sup> / 0.60lb)
Cylinder Dimensions	∅: 51mm / 2.00" L: 221mm / 8.70"
Rated Cylinder Pressure	300bar (4351psi)
Volume of breathable air	75l (2.65cuft - volume of free air)
Cylinder Approval	CE
<b>Compatibility</b>	
Integration 1	SeaLion Europe / Halo Crew & Passenger LJ (WIP)
Approval Integration 1	EASA ETSO 2C504/EN 4856:2023
Integration 2	SeaAir1/SeaAir Barents Helicopter Passenger Suit
Approval Integration 2	EASA ETSO 2C502/ EN 4856:2023
Integration 3	SeaAir Canada Helicopter Passenger suit (WIP)
Accepted Integration 3	TC CAN
<b>Transportation</b>	
Carry-on luggage	Allowed to be transported as personal cabin-luggage on board all airlines (one piece per person)
Checked-in luggage	Allowed to be transported as checked-in luggage (normally two pcs per person)
Note	The above relates to filled systems/under pressure Non-filled systems may be sent in larger quantities
<b>Health &amp; Safety *</b>	
Education	User training is critical for correct operation of the system
Air quality	The unit must be filled with air according to EN 12021:2014 – Compressed gas for respiratory devices
Diving	The system is intended for escape of a ditched and submersed helicopter cabin, not regular diving

\*) This type of equipment does not require a specific MSDS, as this is relevant for chemical substances only