

EMERGENCY ESCAPE BREATHING DEVICES

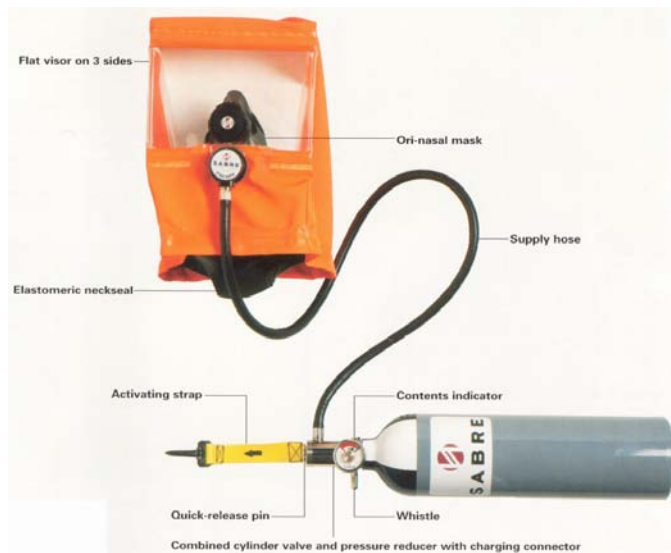
Since July 2002 emergency escape breathing devices EEBD's are mandatory on board of seagoing vessels. The Sabre ELSA breathing device is meeting this requirement.

The number of EEBD's depends on the size of the crew and the layout of the ship. The basics of the regulation are as follows:

1. at least two EEBD's within the crew accommodation spaces
2. EEBD's in the machinery spaces. The number depends on the number of people working in the spaces and the layout
3. a number of spare EEBD's taking into account the total number onboard and the requirement for EEBD's to be used for training purposes.



The ELSA device comprises a compressed air cylinder with pressure reducing valve, supply hose to air hood and a stowage bag.



The air hood has a 3 sided flat visor for excellent peripheral vision.

The neck seal is made from ozone resistant elastomeric material.



The bag and the hood are made from a high visibility PVC coated material. The bag allows for quick donning, can be comfortably carried in two orientations and may be used with an optional waistbelt. Velcro strips secure the opening with tamperproof tags supplied to prevent unauthorised access. A transparent window is provided to allow the cylinder contents gauge and activation pin to be inspected without opening the bag. The stowage bag also features an adjustable webbing strap with dual point fixing for versatility.

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Detail of bag with cylinder contents gauge

**Activation**

The ELSA device is activated when opening the bag. A quick release pin is fitted to the pressure reducing valve and attached to the bag via a strap. The valve incorporates a pressure indicator and a warning whistle which sounds when the designated duration is reached and the CO₂ level within the hood exceeds the performance specification.

Technical specifications**15 minute ELSA**

3.0 liter, 200 bar aluminium alloy cylinder, gives 600 litre free air, nominal airflow of 38 litres per minute. Weight 6.15 kg

**Approvals**

The ELSA is CE marked to EN1146 in accordance with EC/686/86 and has Lloyd's Register, MED, approval.