

Emergency Life Support Stores (ELSS)

The Perry Slingsby Systems Emergency Life Support Stores (ELSS) containers are pressure tight pods used by Navies as part of a distressed submarine rescue system. In the event that a submarine becomes stranded on the sea bed, ELSS containers are posted into the submarine's hatches to deliver life preserving stores to the crew until a full rescue can be mounted.

The ELSS pod is designed to be nominally neutrally buoyant in seawater, which enables it to be delivered to the Submarine by a swimmer, an Atmospheric Diving Suit (ADS), a Remotely Operated Vehicle (ROV) or the Rescue Submersible itself.

Each ELSS container comprises a cylindrical pressure vessel with a removable end cap fitted with a lifting handle. The payload of the container can be varied using a combination of ballast weights, which keep the weight in water of the container constant.

The cylindrical pressure vessel is manufactured from a GRP composite material, which is both tough and resilient to impact during deck handling and deployment. Aluminium alloy or titanium construction is available as an option.

The removable end cap is manufactured from aluminium alloy and is fitted with a stainless steel lifting handle. A pressure equalising valve ensures that the cylinder is not under or over-pressurised before being opened.





Specification

Maximum Overall Diameter:	360 mm
Overall Length-Including lifting handle:	1263 mm (to be determined according to Submarine)
Internal diameter of Main Stores Volume:	300 mm
Length of Main Stores Volume:	960 mm
Typical buoyancy of empty container:	51 kg (in seawater)
Typical weight of container assembly:	58 kg
Working depth:	500 m
	Depth rating can be varied according to Customer requirement

Each container is supplied with three plastic coated ballast weights:

- 1 off 2.25 kg (5 lb)
- 1 off 4.5 kg (10 lb)
- 1 off 15.9 kg (35 lb)

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The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.