

6XL LIFE RAFT – SUBMARINE PACK

P/N 61003

APPLICATION

The life raft, complete with ancillary equipment, is vacuum packed to 1 atmosphere and stowed in a rip-strip valise container designed for stowage aboard the Victoria Class submarine. The vacuum packed system ensures the low volume will fit into confined spaces and is sized to fit easily through the submarine escape hatches or other restricted spaces on rotary/fixed wing aircraft. An added benefit of the vacuum packed system is that it provides an extended maintenance cycle of three years.



6XL Submarine Pack

DESCRIPTION

The 6XL life raft has a nominal capacity for 6 persons with overload capacity* of 9. The main structure consists of two tubular superimposed buoyancy chambers, each capable of supporting the full complement; an inflatable floor to provide thermal insulation to the occupants; and an adjustable self-erected canopy which is supported by an inflated arch structure. An inflated boarding ramp, located at the main chambers outer tangency point, constitutes the main boarding station. A secondary boarding station is provided in the form of a footstep ladder and hauling-in-line arrangement located opposite the boarding ramp. The raft is constructed mainly from 2-ply neoprene-coated nylon fabric, bonded with a self-vulcanizing neoprene cement solution.



6XL Life Raft

6XL - SUBMARINE PACK

TECHNICAL DATA

Service capacity	6 person
Overboard capacity	9 person
Outside diameter, lower chamber	7 ft. 3 7/8 in.
Inside diameter, lower chamber	5ft. 6 3/8 in.
O/A height of raft	46 in.
Freeboard of buoyancy tubes	1 ft 7 1/4 in.
Volume of upper tube – 8.21 Ft ³	525 lb. buoyancy
Volume of lower tube – 12.35 Ft ³	803 lb. buoyancy
Displacement of main tubes only	1328 lb.
Maximum effective displacement	4478 lb.
Raft Weight	54 lb.
Packed valise size	14.5" x 26" x 9"
Stowage Temperature Limit	-25°C to 50°C -13°F to 122°F
Service Life Limit	Indefinite; except aluminum cylinder: 15 years.
Service Cycle - Life Raft Assembly	three (3) years
Service Cycle – Inflation Valve	seven (7) years
Service Cycle - Compressed Gas Cylinder	five (5) years
EPIRB Type	EPIRB Not Included

INFLATION SYSTEM

The complete life raft, with the exception of the floor, is inflated by a charge of CO₂ and nitrogen, stored in a high pressure aluminum cylinder located on the underside of the floor. The cylinder is fitted with a Mirada 3000-series operating head. Excess pressure is discharged via pressure relief valves fitted to the buoyancy chambers. The floor is inflated manually via a flush valve by means of a pump supplied in the equipment bag.

STANDARD EQUIPMENT

The following items of standard equipment are fitted to the life raft: Lifelines, Righting Strap, Footstep Ladder, Hauling-in-Line, Sea lights, Floating Knife, Rescue Line and Quoit, Anchorage Patches, Drogue and Line, Equipment Bag c/w Repair Kit, Leak Stoppers, Repair Clamps, Hand Pump, Sponge, Handbook.

SURVIVAL EQUIPMENT

No survival equipment is provided in the life raft pack.