

## SINGLE-PERSON LIFE RAFT

1XL P/N 6152

### DESCRIPTION

The Tulmar 1XL, a lightweight inflatable life raft, has a nominal capacity for one person; with sufficient additional buoyancy reserves to sustain an extra occupant, under emergency conditions. The hull design consists of a single, boat-shaped buoyancy chamber offering greater buoyancy at the bow to achieve optimum stability when laden with an occupant. A manually inflated floor, cemented to the underside of the hull center line, offers thermal insulation; while weather protection is provided by a hooded canopy/ shield cemented to the upper center-line of the hull. Directional stability is provided by a trailing sea anchor which maintains the bow into the wind. Additional stability is afforded by water ballast pockets located at the bow on the underside of the floor. Four hand grips are located on the upper side of the hull to facilitate boarding.

### INFLATABLE FLOOR

The floor consists of two fabric diaphragms cemented together at their periphery and connected internally by a number of dimple spacer reeds to control the inflated thickness. Floor inflation is achieved manually with the hand pump provided in the kit or via an oral tube and valve located on the upper tube surface inside the raft. The floor is designed to offer a 5-inch drop at the seating area to lower the raft center of gravity.

### GAS INFLATION SYSTEM

The hull/buoyancy chamber is inflated by a 0.50 lb CO2 gas charge stored in a high pressure cylinder located on the hull. The cylinder is fitted with a poppet type valve, held in check with a ball type flexible stainless steel pull cable.

### APPLICATION

The individual life raft was primarily designed for use in jet fighter aircraft and is normally stowed, along with ancillary survival equipment, into a specifically designed seat pack suitable to various aircraft configurations; however, it may be used in small aircraft, boats, helicopters and the like. Specific applications would dictate appropriate container design requirements.



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**TECHNICAL  
DATA**

Service Capacity	1 Person
Overall Length	66.00 inches
Overall Width (Across the Bow)	37.00 Inches
Tube Diameter (Across the Bow Center Line)	9.75 inches
Tube Diameter (Across the Stern Center Line)	5.25 inches
Volume of Buoyancy Tube	4.25 cubic feet
Buoyancy Tube Displacement	266.00 lbs
Maximum Effective Displacement	487.00 lbs
Weight of Raft (Less Inflation & Ancillary Equipment)	5.50 lbs
Gas Inflation Equipment:	
Approx. CO2 Cylinder (Tare)	1.50 lb
Gas Charge (Net)	0.50 lb
Approx. Gross Weight	2.00 lb

**SURVIVAL EQUIPMENT**

Survival Equipment can be provided according to individual customer requirements. The check list for ancillary equipment usually constitutes the following: Pump, Leak Stoppers, Repair Kit, Repair Clamps, Handbook, Water Storage Bag, Fishing Kit, Sponge, Glove-Type Paddles, Mirror/Signaling Devices, Drinking Water and Edible Rations.

**SEAT PACK CONTAINER**

Seat pack containers can be provided, varying in size and shape to suit applicable configurations, to carry the packed life raft along with ancillary equipment.

**MAINTENANCE INTERVAL**

The recommended period to overhaul is 12 months if stowed in a container inside the passenger cabin of an aircraft. For stowage in other transport such as Hovercraft, the 12 months between overhauls applies only if the life raft is stowed with the passenger cabin or if the life raft's container is waterproof. Otherwise the overhaul period is 6 months on receipt of evidence of satisfactory stowage conditions during the first 12 months of operation.