

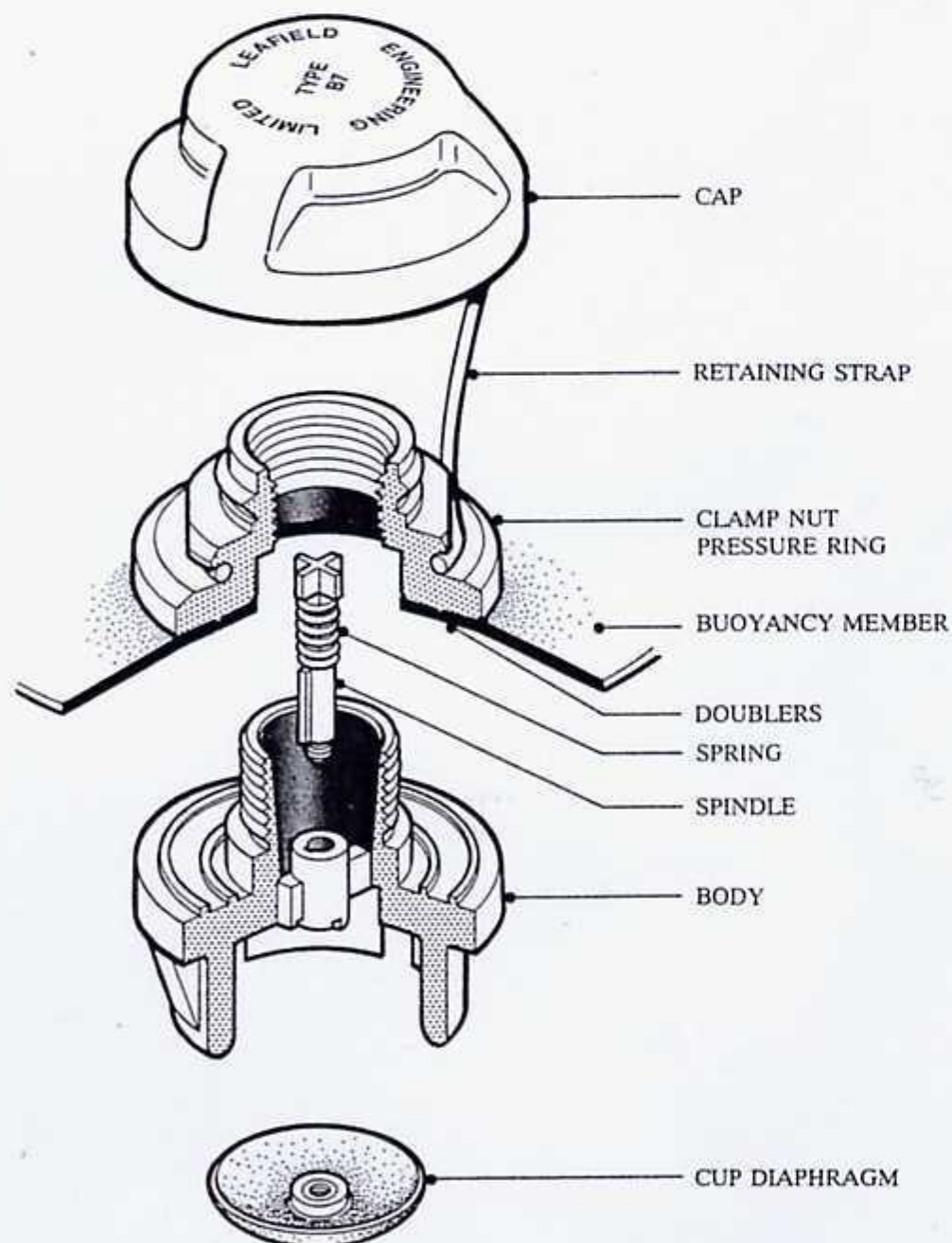
## B7 INFLATION/DEFLATION VALVES

### Introduction

The B7 valve is a development of the A7 valve. It offers all the advantages of the A7 valve but also gives a smooth snag free and attractive profile. It is for use in inflatable boats and large inflatable structures where a smooth profile is an advantage. The valve gives a high rate of inflation due to its free flowing characteristics. They are available in black or grey.

The valve incorporates a cup diaphragm mounted on a spindle. A stainless steel spring holds the diaphragm lightly against its seating. Internal air pressure tends to force the diaphragm on to its seat, resulting in a wiping or cleaning action between diaphragm and seating, ensuring a positive seal.

Deflation is achieved by pressing down the spindle and locking it by turning through 90°. After deflation, the spindle is turned back to its original position to let the diaphragm reseal. Rate of deflation is high for its size, though less than that for the A5 valve.



The B7 valve is clamped to the inflatable structure, the fabric being gripped between the valve body and the clamp ring. A 32.5mm dia. hole is required in the structure. Doublers must be bonded or welded on the inside and outside of the hole in the fabric to give enough strength to prevent overstressing. The inner doubler should be natural rubber or Neoprene, 40° to 50° Shore hardness, approximately 1mm thick and compounded for a low permanent compression set. The doublers must be larger in diameter than the valve and should provide a total thickness of between 2.5mm and 4.0mm.

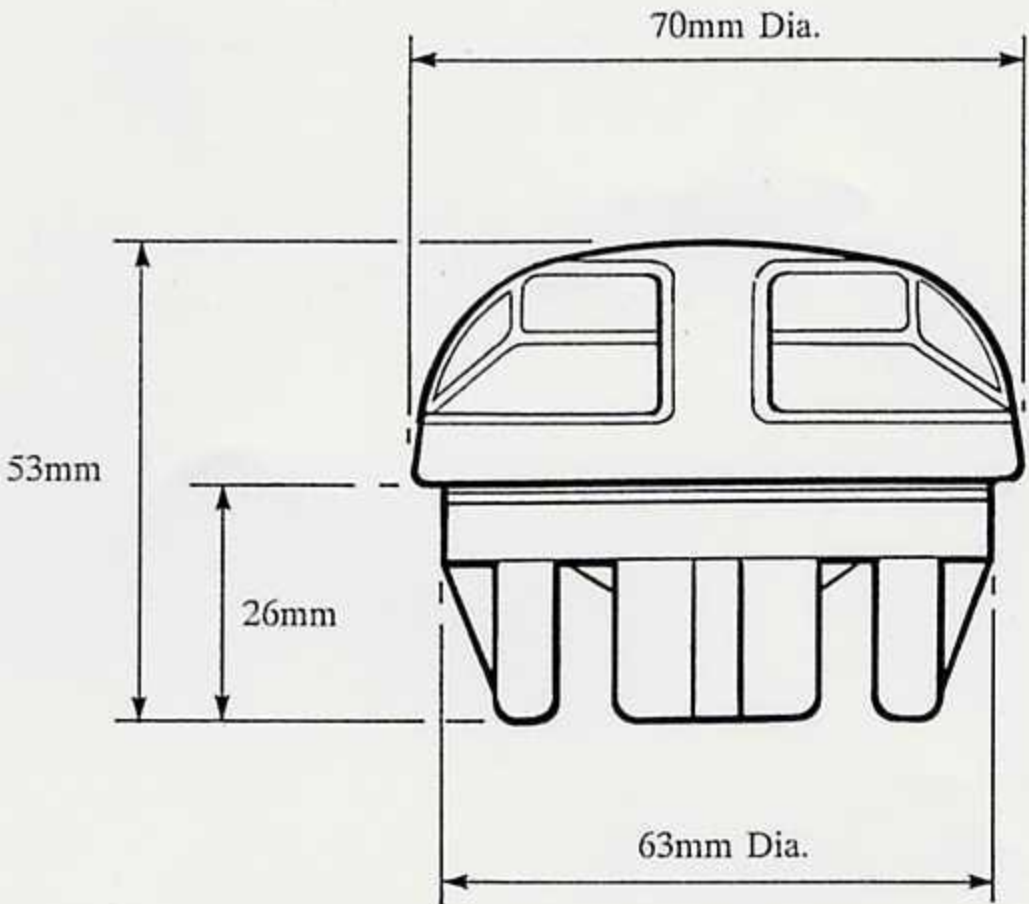
Full installation instructions are given on the installation drawing.

The valve is rugged and requires no routine maintenance.



Materials	Cap	: Acetal copolymer
	Cap seal	: Neoprene
	Retaining strap	: Nylon (modified)
	Clamp nut	: Acetal copolymer
	Spring	: Austenitic stainless steel
	Spindle	: Acetal copolymer
	Body	: Acetal copolymer
	Cup diaphragm	: Neoprene and marine grade aluminium alloy

Dimensions



Ordering Details

Accessories  
(see accessories  
section)

- When ordering, specify valve type, version and colour, e.g. B7 inflation/deflation valve, black.
- Bellows end fitting – for topping up.
  - Manometer and vacuum probes – for monitoring pressures during manufacture and for deflation and vacuum packing.
  - Pressure gauge adaptor.
  - Socket spanner for torquing up during assembly.