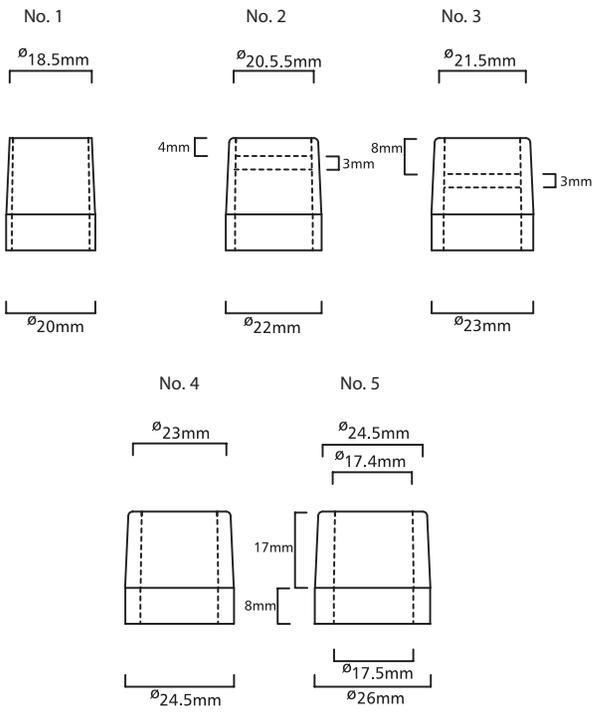
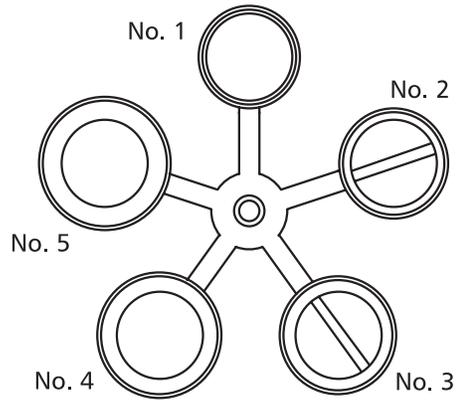




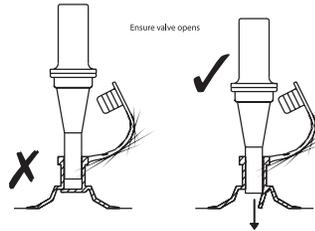
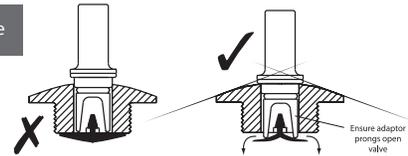
Nozzle Selection



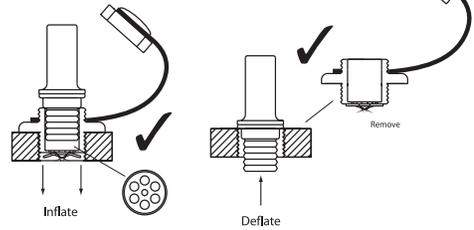
Valve Assemblies

Typical valve assemblies showing the correct use of the adaptor.

Thick section rubber valve

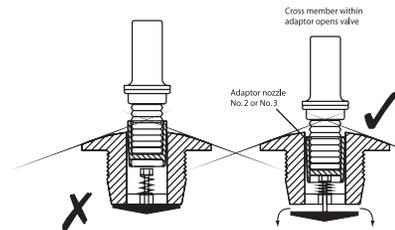


Plastic PVC valve

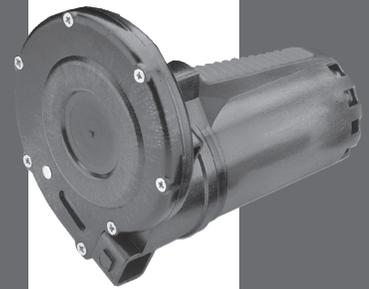
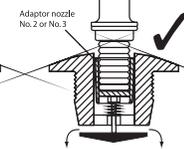


Thin section rubber valve

This type of valve is opened by the air flow of the High Speed Inflator



Sprung load valve



LVM 110 Hi-Speed Inflator/Deflator



Hi-Speed Inflator/Deflator

Features

- Rapid inflation and deflation of all inflatables.
- Inflates a four man dinghy in 1 to 2 minutes.
- Deflates, removing every last ounce of air for easy storage.
- Adjustable nozzles for all inflatables and valve types.
- Light weight and easy to use.
- Easier and faster than manual pumps.
- Temperature sensitive air release valve protects from overheating and over inflating.
- Robust long life construction.

Operating Instructions

If these simple instructions are followed then your Hi-Speed Inflator / Deflator will take the hassle out of inflating and deflating your dinghy for many years to come.

1. Make sure the correct adaptor is selected to suit your valve (see diagrams showing typical valve assemblies). Failure to use the correct adaptor will reduce performance and create back pressure which causes unwanted heat.
2. Insert adaptor into inflate / deflate port of the Hi-Speed Inflator.
3. Ensure your battery is in good condition and has a sufficient capacity of 45 AH minimum.
4. Uncoil cable, connect the red (+) battery clip to the positive terminal and the black (-) battery clip to the negative terminal.
5. Fully engage the adaptor into the dinghy valve and completely depress the switch.

Safety

If the inflator is connected to a circuit using connections other than the battery clips supplied the connecting fuses should be rated at 25 amps at 12 volts DC. Cigar lighter sockets are NOT suitable.

Do not try to over-inflate the dinghy. The Hi-Speed Inflator will give between 0.18 and 0.21 bar (2.6 and 3.0 p.s.i.), which is suitable in most instances. If extra pressure is required, top up with a manual pump.

When maximum inflation / deflation is reached you will note a change of tone. If the unit is left running after the tone change no more pressure will be achieved and the air retained in the pump chamber will heat rapidly. The temperature sensitive air release valve will open, releasing the hot air and protecting the unit from over heating. However, it will not protect the unit indefinitely and the unit should be switched off immediately the change of tone is heard and the release valve starts to vent air. On cooling the air release valve will reset.

The inflator should not be placed bottom down on a surface when operating as the air release valve will not function.

The lead can be extended to 20 ft (6 m) without significantly affecting performance. The minimal cross sectional area of the extending cable should be 10 AWG copper wire (2.5mm²). For longer extensions the cable should be 8 AWG copper wire (4.0mm²) minimum.

- Store away from excessive heat and direct sunlight to avoid external damage.
- If the pump fails to perform, check for blockages, air leaks and correct electrical and adaptor connections.
- Unwrap cables fully before use.
- Do NOT secure in 'ON' position - hand operation only.
- Do NOT immerse in water.



WARNING

When powering this product from a car or a boat battery do not switch 'on' and run the engine. The unit is designed to operate at 12 to 12.7 volts. If the engine is switched on the voltage could rise to 14 -15 volts, which will seriously damage the inflator and the warranty will be disclaimed. The leads could also entangle in the fan belt and cause personal and property damage.

Selecting the correct adaptor

Manufacturer	Valve Type	Diagram	Nozzle
Avon (very old type)	A7	A	
Avon (old type)	A7	C	2
Avon (new type)	B7	C	2
Bombard	Small valve 17.5mm I.D. (inflate)	H	
	Large recessed	D	3
Compass	Large Recessed valve	D	3
Delta	A7 or B7	C	2
Force Four		D	3
Humber	B7	C	2
Maxxon	Inflate	F	5
	Deflate	B	1
OMC Express	Old type valve	A	
	New type valve(recessed)	D	3
Quicksilver		A	
Ribcraft	A7 or B7	C	2
Ribtech	A7 or B7	C	2
Tornado	A7 or B7	C	2
Tinker	A5 old type valve	A	
	B7 or C7	C	2
Valiant		C	2
Zenith		G	
Zodiac	Small valve 17.5mm I.D. (Inflate)	A	
	Large recessed	D	3
Small PVC Inflatables and Airbeds etc.		J	

Note: When deflating dinghies with A7 or B7 valves the centre section of the valve can be locked in the open position by pushing fully in and turning anti-clockwise.

Specifications

Model	Airflow	Pressure	Amps	Volts	Weight
LVM110	20 ft/min ³	2.6 psi/min	25 max.	12	1.6lbs
	550 lpm	0.18 bar/min			750grms
Cable length 3 metres (10ft).			Fitted with battery clips.		



Valve Assemblies

