Conversion of L. Unit for use as Air Supplied Gear

Purpose of adapting L. Unit for air supply:

1. To permit deeper diving than is practical with oxygen (eliminate oxygen poisoning).

2. To make a single unit capable of doing work of both self-contained and air supplied shallow diving apparatus, thereby eliminating necessity for having two different sets of equipment.

Advantages:

1. No harm is done to self-contained unity by the conversion. Can be reverted for self-contained diving in few minutes.

2. Requires only one wrench and five minutes to carry out conversion.

3. Can conserve oxygen and soda lime supplies for tasks where self-contained equipment is required.

4. Full control over air supply is provided by delivering air to adaptor before needle valve, permitting unit needle valve to be used for adjusting air flow.

5. Delivery of controlled air supply into breathing bag permits bag to act as a reservoir, storing air for next inhalation. This provides maximum economy of air since none is wasted.

6. The weight of the heavy parts of the unit helps to hold the diver down. Nevertheless a lead belt may be useful for n.w. stability as in any static diving.

7. It may be possible to build a sufficiently strong check valve to permit switching from air supply to self-contained u.w.