



Dixon Marine Consulting Ltd

Marine Consultants & Specialist Brokers

ESO-147 – 2x Hydratight Air Driven Pumps – Unused



GENERAL

The air operated pump unit consists of the following main components:

PUMP

An air operated reciprocating piston type pump, which operates on the principle of pressure intensification via differential areas, i.e. a large, low pressure air piston drives a much smaller hydraulic piston to provide oil flow at high pressure.

AIR FILTER/REGULATOR

A combined unit consisting of an air filter, air pressure gauge and air pressure regulator assembly. The air filter removes water and foreign particles from the inlet air supply, and should be periodically cleaned and drained. The air regulator is used to regulate the incoming air pressure and can be used to set the pump to stall when a predetermined hydraulic pressure is attained.

The inlet air supply is connected directly to the air filter/regulator unit via a quick disconnect coupling.

AIR LUBRICATOR

Connected directly onto the air filter/regulator unit, it is used to lubricate the incoming air supply and hence lubricate the pump unit.

PUMP START/STOP VALVE

A simple manual on/off valve to start and stop the air supply to the pump. The speed of operation of the pump can be finely regulated using this valve.

HYDRAULIC OIL RETURN VALVE

A high pressure valve allowing hydraulic pressure to be built up when closed, and released when opened, diverting the hydraulic oil back to the reservoir.

PUMP EXHAUST/SILENCER

A muffle/filter connected to the pump exhaust port to reduce the operating noise level.

PRESSURE GAUGE

A Budenberg 0-25000 psi hydraulic oil pressure gauge positioned behind a protective wire guard.

HYDRAULIC RESERVOIR

A tank of approximately 9 litres (2 gallons) capacity incorporating an external transparent tube type level indicator. Filters are fitted into the filler neck and the oil outlet port.

