

		AHP2 SERIES AIR DRIVEN HIGH PRESSURE HYDRAULIC POWER PACK OPERATING INSTRUCTIONS		TDS:- 1337
Prepared by:-	Mark Dalley	Approved by:-	Matthew Hughes	Date: 18/10/12
REV NO:- 002				
ECO:- 3942				

Before operating your Hi-Force Hydraulic Power Pack, please ensure that the following instructions are carried out

1. Check that there is sufficient fluid in the reservoir. If not, top up with mains water or suitable hydraulic oil.
2. Check that the "Pressure Let Down Valve" is in the open position (Turn anti-clockwise).
3. Close off the "Air Stop Valve". (Turn anti-clockwise).
4. Turn the "Air pressure Regulator" anti-clockwise until the handle becomes free and easy.
5. Connect a suitable air supply to the "Air Supply connection" (3/8" BSP Female).

Please note that the maximum air pressure supplied to the Power Pack should never exceed 100 PSI.

6. Connect a suitable hydraulic hose (rigid piping with screwed and coned connections in case of very high pressure Power Packs) to the outlet connection. Please note that the hydraulic hose or piping together with adapters and couplings should have a rated working pressure equal to the maximum output pressure of the Power Pack.

Hoses are available from Hi-Force Ltd or your Hi-Force Distributor suitable for working pressures up to 30,000 PSI. Above this pressure, stainless steel piping together with high-pressure fittings should be used. These are also available from Hi-Force.

Once the above instructions have been completed the Power Pack is ready for use and the following operating procedure can be followed.

1. Open the Air Stop Valve (2). (Turn clockwise) **SEE FIGURE 1.**
2. Turn the Air Pressure Regulator (1) slowly clockwise until the pump begins to reciprocate. The pump should start on 10 to 15 PSI of air under normal conditions.
3. Turn the Air Pressure Regulator (1) clockwise further until 30 to 40 PSI is reached on the Air Pressure Gauge (4), and then allow the pump to run until all air has been purged from the circuit. Please note that when pressure testing large vessels and pipes, care should be taken to bleed off any air within the object being tested.
4. Turn the Air Pressure Regulator (1) anti-clockwise until zero pressure is reached on the Air Pressure Gauge (4).
5. Close the Pressure Let Down Valve (3). (Turn clockwise).
6. Close any further "Air Vent" valves, external to the Power Pack once all air has been purged from the total system.
7. Turn the Air Pressure Regulator (1) slowly clockwise until the desired hydraulic pressure is reached on the High Pressure Gauge (5)

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Note

If the object being tested is large it will take a while before the pressure builds up in the system and registers on the high pressure gauge. Care should be taken not to set the air driving pressure too high whilst being unattended as this may lead to the object under test being over pressurised.

The air drive pressure can be pre-set if desired by closing off the air stop valve prior to use and winding the air pressure regulating valve clockwise until the required air pressure is registered on the air pressure gauge.

The air pressure should ideally be set slightly below that desired so that it can be raised to the correct amount once the output pressure has built up and the pump has stalled out. The pump can then be started and stopped by using the air stop valve only if preferred.

Once set the pump will maintain the set pressure indefinitely and make up any fluid losses within the hydraulic system automatically.

To let down pressure

1. Close off the Air Stop Valve (2) (Turn anti-clockwise).
2. Turn the Air Pressure Regulator (1) anti-clockwise until the Air Pressure Gauge (4) is reading zero pressure.
3. Open slowly the Pressure Let Down Valve (3). (Turn anti-clockwise) until the high-pressure gauge reads zero.
4. Disconnect the hydraulic hose from the high-pressure outlet connection.
5. Disconnect the air supply from the "Air Supply Connection".

Figure 1



		AHP2 SERIES AIR DRIVEN HIGH PRESSURE HYDRAULIC POWER PACK OPERATING INSTRUCTIONS		TDS:- 1337
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NOTE(S):-

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