



RenQuip

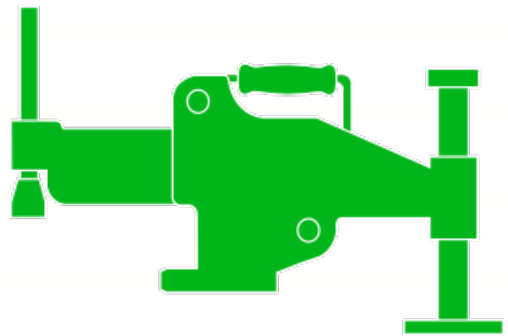
OPERATION MANUAL

PH300D

PH580D

PH1100D

Double Acting Sealed
Hydraulic Hand Pumps



Engineered Energy Equipment

www.renquip.com



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1.0 Introduction

The RenQuip PH range of hand pumps are of 2 speed design to give fast operation with low handle effort. All pumps are rated for all 10,000psi / 700Bar hydraulic equipment. The pumps are equipped with a flexible reservoir that contracts when oil is pumped from the reservoir into the system – this removes the requirement for an air vent and eliminates the possibility of accidental oil spillage from the reservoir.

The flexible reservoir enables the pump to be used in any orientation without the risk of air entering the hydraulic system. It also prevents contamination or debris entering the hydraulic system from the atmosphere making Renquip pumps ideal for use on site and in the workshop.

The PH***D range of pumps are designed for use with double acting tools and cylinders, they are equipped with a simple to operate 3 position valve to enable the operator to Advance and Retract double acting cylinders.

2.0 Safety Information

User Safety



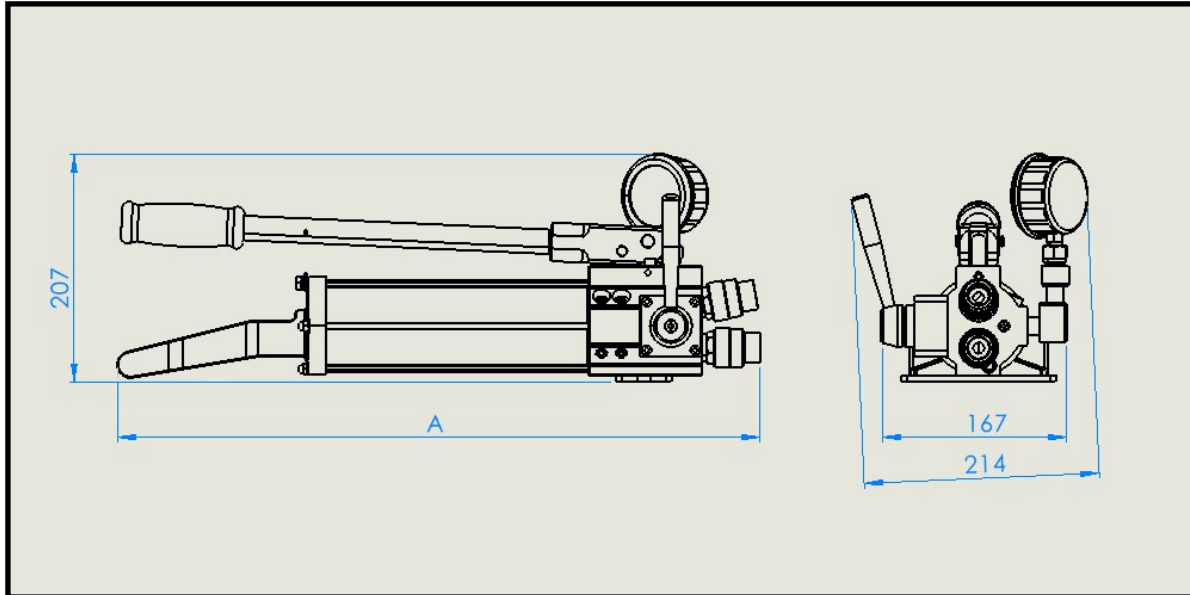
1. The User must be competent in Operating High Pressure Hydraulic Equipment.
2. The User must read and understand the relevant Instruction Manual for the Equipment.
3. The User must wear the correct Personal Protective Equipment .
4. Do not lift or hold pressurised equipment

Equipment Safety



1. Inspect all equipment prior to use for any signs of damage or wear.
2. Ensure all components have a safe working pressure of 10,000psi (700Bar).
3. Do not pressurise equipment over its safe working pressure.
4. Ensure all couplers are fully connected before pressurising the system.
5. Ensure system is fully depressurised before disconnecting couplers.
6. Ensure the working area is free from hazards to the equipment such as sharp objects, heat sources , moving machinery or vehicles.
7. Carry / transport equipment by the handles / cases provided.
8. Store Equipment in a cool dry environment .
9. Ensure the correct oil is used in the hydraulic system and maintenance procedures are followed.

3.0 Technical Specification



PUMP TYPE	OIL CAPACITY CC	LENGTH A mm	PUMP WEIGHT Kg
PH300D	300	480	5.5
PH580D	580	600	6.5
PH1100D	1100	810	7.5

Kit Contents : PH300D

- 1 x PH300D Sealed Double Acting Hand Pump
- 1 x Hydraulic Pressure Gauge
- 2 x 3/8" Female Half Couplers with dust caps
- 1 x Instruction Manual

Kit Contents : PH580D

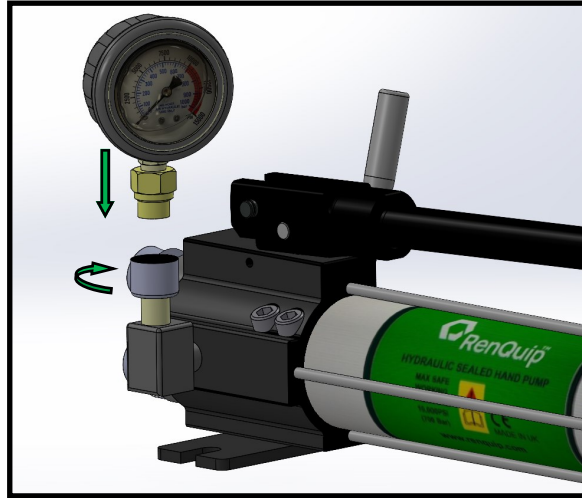
- 1 x PH580D Sealed Double Acting Hand Pump
- 1 x Hydraulic Pressure Gauge
- 2 x 3/8" Female Half Couplers with dust caps
- 1 x Instruction Manual

Kit Contents : PH1100D

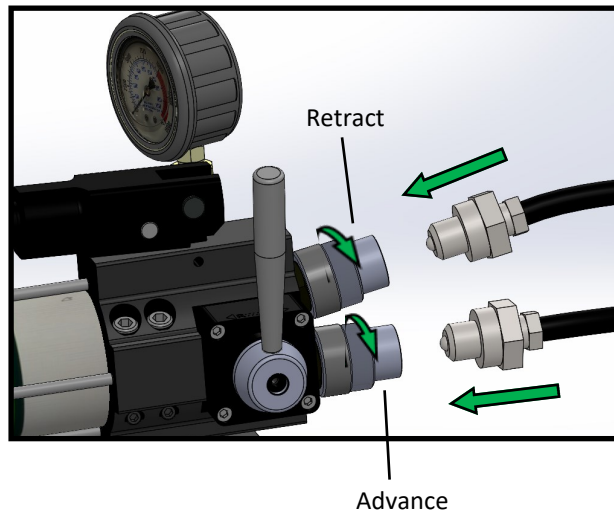
- 1 x PH1100D Sealed Double Acting Hand Pump
- 1 x Hydraulic Pressure Gauge
- 2 x 3/8" Female Half Couplers with dust caps
- 1 x Instruction Manual

4.0 Operation of the PH****D Pumps

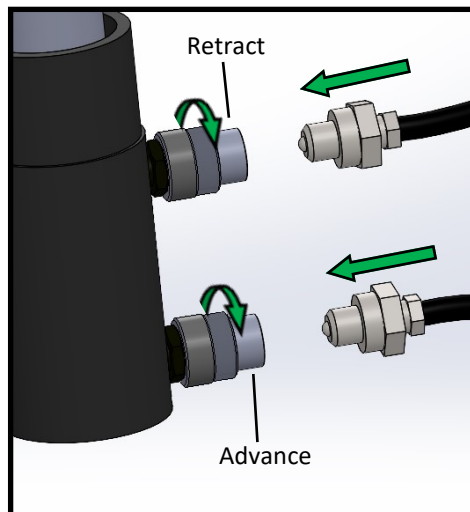
1. Connect the Gauge to the Pump.

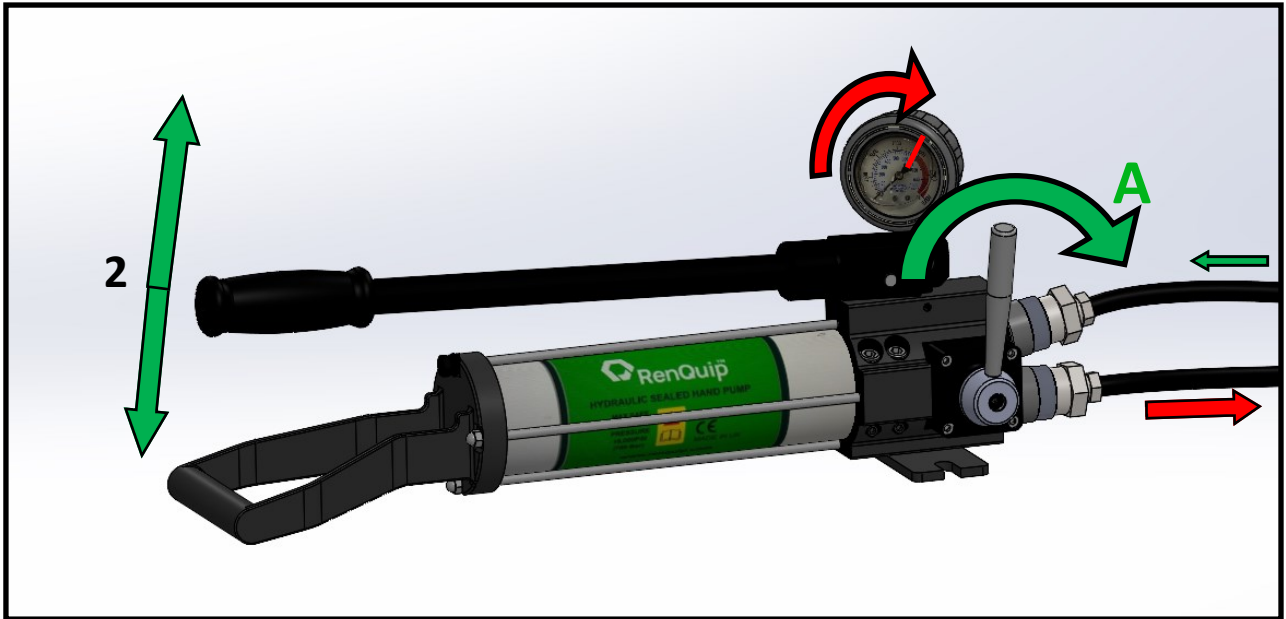


2. Connect the Hoses to the Pump. Connect the Advance hose to the Lower coupler, connect the Retract hose to the Upper coupler.

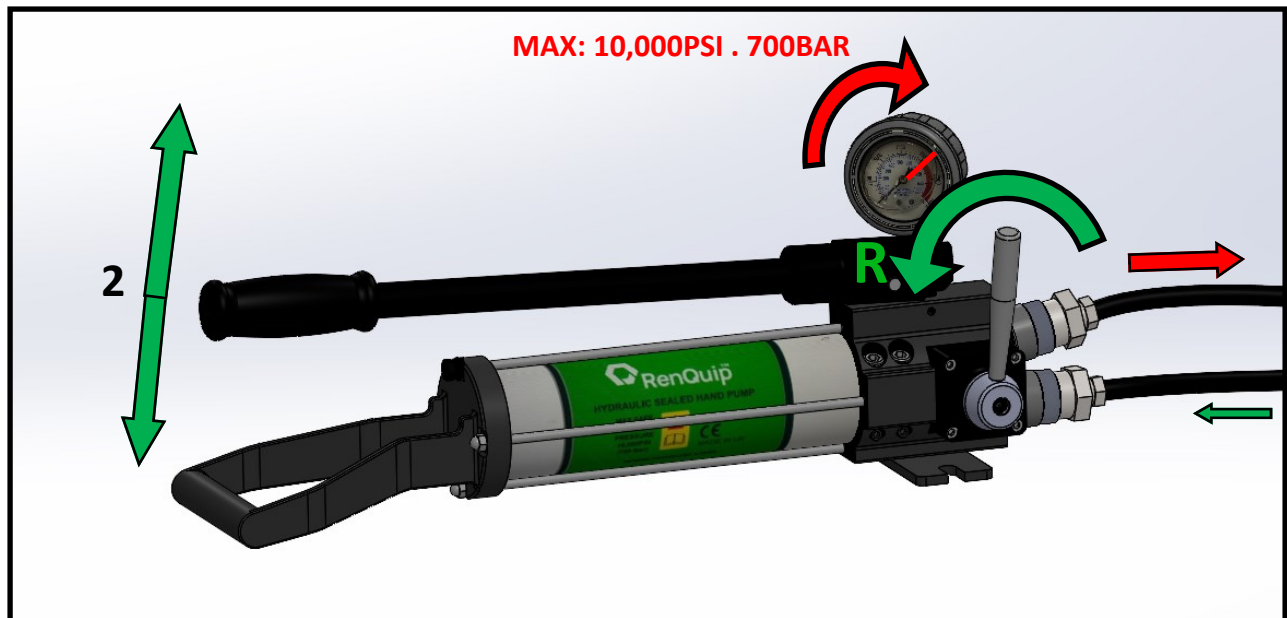


3. Connect the Hoses to the Tool. Ensure the Advance hose is connected to the Advance coupler.

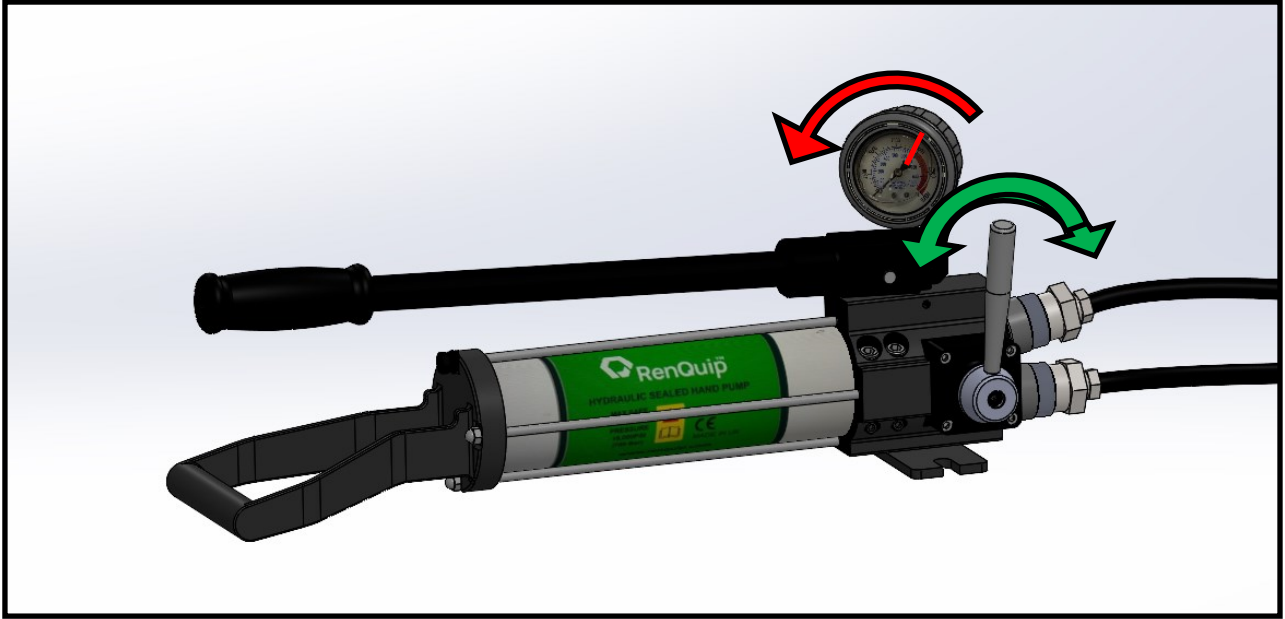




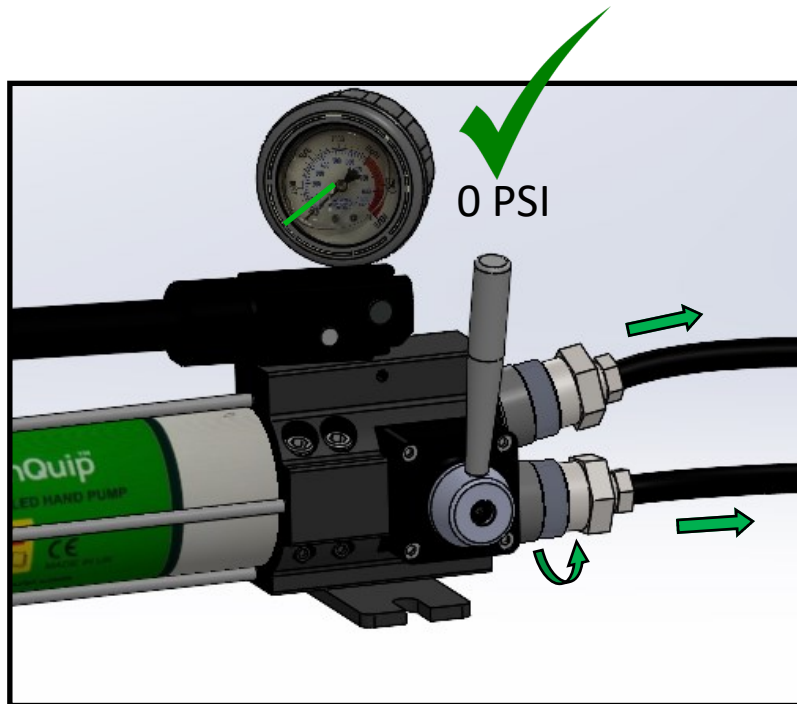
4. To Advance the Tool, first push the control lever to the Advance position **A** then operate the pump handle **2** to pump hydraulic oil in to the Advance hose.



5. To Retract the Tool, first push the control lever to the Retract position **R** then operate the pump handle **2** to pump hydraulic oil in to the Retract hose.



6. To Release the pressure in the system– move the control lever to the central position and allow the pressure on the gauge to drop to zero,



7. Once the pressure is zero the couplers can be unscrewed and the hoses removed.

8. Clean equipment and package for storage in a cool dry location.

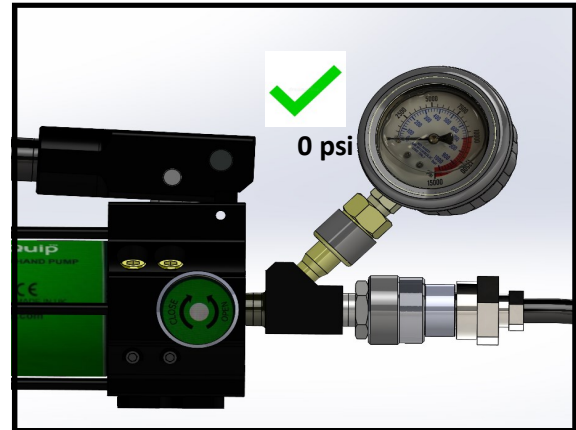


5.0 Maintenance

- Visually Inspect Pump, Gauges and couplers for any damage.
- Replace any worn or damaged parts.
- Clean and degrease surfaces , couplers and Gauges.
- Ensure protective caps are fitted to cleaned couplers.
- Lubricate all moving parts with light Oil.
- Top up hydraulic oil as required with a high quality 32cSt hydraulic oil.
- Store pumps in a cool, dry, and low humidity location.

6.0 How To Refill the Oil Reservoir

1. Ensure the system is fully depressurised and disconnect coupler.

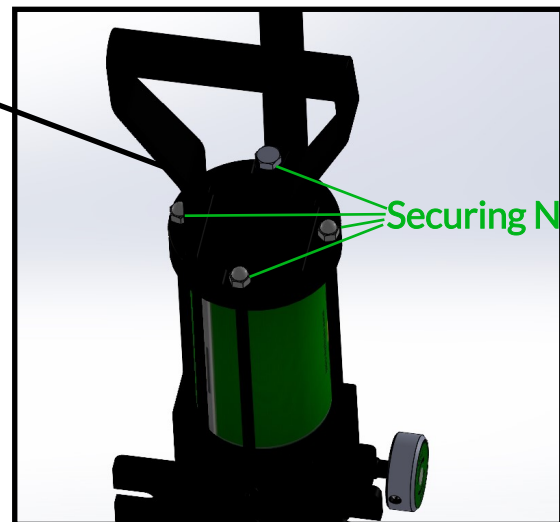


2. Grip the base plate of the pump in a vice ensuring that the reservoir is vertical



3. remove the 4 securing nuts and lift off the Main Handle

MAIN HANDLE

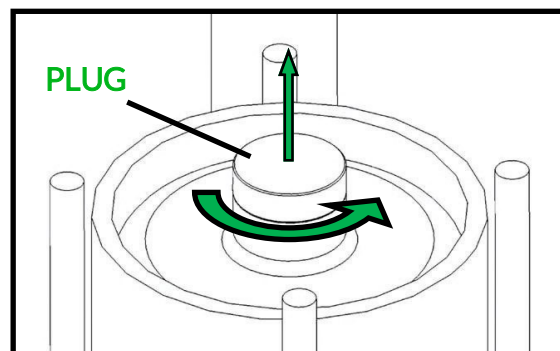


Securing Nuts

4. Twist and pull to remove the refill plug .

5. Top up with a high quality 32cSt hydraulic oil to just below the top of the reservoir.

Replace the plug and handle .



PLUG

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