# AIR HYDRAULIC FOOT PUMP 10,000PSI

MODEL NO: **RE109**

**Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.**

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.

Refer to instruction manual

Wear eye protection

## 1. SAFETY

### 1.1. GENERAL SAFETY

❑ **WARNING!** The warnings, cautions and instructions in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied by the operator. Ensure a safe working space of at least a metre exists around the installed unit.

✓ Familiarise yourself with the applications, limitations, and hazards peculiar to the hydraulic foot pump.

✓ Maintain the hydraulic foot pump in good condition (use an authorised service agent).

✓ Replace or repair damaged parts. Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.

✓ Keep the hydraulic foot pump clean for best and safest performance.

✓ Locate the hydraulic foot pump in an adequate working area for its function, keep area clean and tidy and free from unrelated materials and ensure there is adequate lighting.

✓ The hydraulic equipment operator must be a qualified operator must have correct training and work experience with hydraulic equipment. Lack of knowledge in any of these areas can lead to equipment damage or personal injury

✓ Ensure the workpiece is correctly secured before operating the hydraulic foot pump.

✓ Ensure that all fittings are tight before each use.

✓ Keep hand and feet away from cylinder and workplace during operation to avoid personal injury.

✓ Cylinder is a load lifting device, not a load holding service. After the load has been raised or lowered, it must always be held mechanically, never work under a load supported by hydraulics.

✓ Keep the foot pump clean all the time.

✓ When the foot pump is not in use, release the valve, remove hose and use rubber cap to cover the port.

✓ Use hydraulic equipment in normal temperature, **DO NOT** use equipment in temperatures of 65ºC (150ºC) or higher. Overheating will soften seals and weakens hose materials, resulting in oil leaking or other equipment failure.

✓ Never lift a load more than the capacity of the cylinders, overloading causes equipment failure and serious personal injury.

✓ Carefully inspect cylinder(s), coupler(s), hose(s) and foot pump before using hydraulic equipment,

✓ To avoid personal injury, do not modify or weld hydraulic equipment without approved from the supplier.

✓ If you find any damage contact with you nearest Authorized Service stockist or Sales office. These damages can cause personal injury when you use the foot pumps.

✓ Remove ill fitting clothing. Remove ties, watches, rings, loose jewellery and contain long hair.

✓ Keep hands and body clear of the work table when operating the hydraulic foot pump.

✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip footwear.

✓ Keep children and unauthorised persons away from the working area.

✓ Check the hydraulic foot pump for loose or damaged parts before each operation. Replace damaged parts and tighten all bolts.

× **DO NOT** drop heavy duty items on hose.

× **DO NOT** put poor-balanced or off centre loads on cylinders. The incorrect load can result equipment failure and serious personal injury.

× **DO NOT** lift and carry hydraulic equipment by the hoses or couplers, use the handle or other safe way.

× **DO NOT** operate the hydraulic foot pump if any parts are missing as this may cause failure and/or possible personal injury.

× **DO NOT** use the hydraulic foot pump for a task it is not designed to perform.

× **DO NOT** make any modifications to the hydraulic foot pump.

× **DO NOT** adjust or tamper with the safety valve.

× **DO NOT** exceed the rated capacity of the hydraulic foot pump.

× **DO NOT** apply off-centre loads.

× **DO NOT** get the hydraulic foot pump wet or use in damp or wet locations or areas where there is condensation.

× **DO NOT** operate the hydraulic foot pump when you are tired or under the influence of alcohol, drugs or intoxicating medication.

× **DO NOT** allow untrained persons to operate the hydraulic foot pump.

× **DO NOT** use it for any other purpose it is not designed to perform.

× **DO NOT** exceed the ram stroke, so as not to damage the hydraulic foot pump.

× **DO NOT** expose the hydraulic foot pump to rain or any other kind of moisture.

❑ **WARNING!** Always wear approved eye or face protection when operating the hydraulic foot pump. A full range of personal safety equipment is available from your Sealey stockist.

❑ **WARNING!** Keep hands and feet away from working table area at all times.

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- × **DO NOT** top up hydraulic unit with brake fluid, or any other fluid other than a good quality hydraulic oil (Sealey Part Number: HJO500MLS/HJO5LS) as this may cause serious damage to the hydraulic unit and will invalidate the warranty.
- ❑ **WARNING!** Wear safety glasses, safety cap and other necessary personal protective equipment when operating hydraulic equipment.
- ❑ **WARNING!** Cylinder(s) used to lift load must have solid footing for correct support. Select steel or wood blocks that are capable of supporting the load.
- ❑ **WARNING!** Install pressure gauges in the system to monitor the operating pressure. The gauge must have the same pressure rating as the pump and cylinder(s). The wrong gauges may result in Personal injury.
- ❑ **WARNING!** The system operating pressure must lower than the lowest rated pressure in the system.
- ❑ **WARNING!** Carefully inspect the cylinder(s) and couplers before use cylinder(s). Never connect the cylinder(s) with damaged couplers or damaged port threads. The damaged coupler(s) or damaged port threads may cause equipment failure and possible personal injury.
- ❑ **WARNING!** Change coupler(s) in a clean environment. Prevent dirt or other debris from entering into cylinder(s) body or tube. Dirt or other debris will damage the cylinder(s) and result in equipment failure and possible personal injury.
- ❑ **WARNING!** Cylinder must be placed on a stable base, use cylinder base to improve stability.
- ❑ **WARNING!** Before removing or tightening hose(s) or coupler(s), release hydraulic pressure in system.
- ❑ **WARNING!** Never handle pressurised hoses; escaping oil under high pressure can penetrate the skin, causing serious injury. Seek medical aid immediately if injured.
- ❑ **WARNING!** Foot pump must use special hydraulic oil, use the supplier's or other approved hydraulic oil.

## 2. INTRODUCTION

Foot operated air hydraulic pump allows for hands-free operation, enhancing convenience. Utilizes compressed air to power the hydraulic system, providing efficient and reliable performance with minimal manual effort. Perfect for a wide range of hydraulic tasks, including use with hydraulic body repair kits, presses, and rams. Features a 1600ml oil reserve. Fitted with 3/8" outlet with hoses available to make it suitable for use with most hydraulic powered tools.

## 3. SPECIFICATION

| | |
|---|---|
| Model No | RE109 |
| Input Threads (NPT) | 1/4"-18 |
| Maximum Air Input | 101-145psi |
| Nett Weight | 8.62kg |
| Oil Capacity | 1600cc |
| Oil Delivery (cu .in/ min | No Load 49.5 Load 7.6 |
| Oil Pressure | 10000psi |
| Operational Manner | Foot Pedal |
| Output Threads (NPT) | 3/8"-18 |

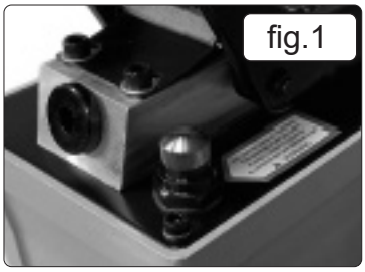
## 4. PREPARATION FOR USE

**NOTE:** Before using foot pump, visually check all units to make sure there are no damage on foot pump and other hydraulic equipment. No oil leaking and shortage of parts. If you find any problem contact with your supplier.

**NOTE:** Always secure threaded port connections with non-hardening pipe thread compound. Tighten securely to prevent accidental removal of components while in use. Take care not to introduce compound into port orifices. Familiarise yourself with the specifications and illustrations in this operator's manual. Know your pump,

4.1. To prevent oil leak during shipment, a metal knob is installed (fig.1) which is secured tightly to ensure the best sealing. Loosen it counter-clockwise before use. Its limitations and how it operates before attempting to use.

4.2. Refer to Specification chart on above for details of oil port thread size, usable oil capacity.




## 5. OPERATION

5.1. Connect the hose of the Air Hydraulic pump to the hydraulic coupling on the selected tool.

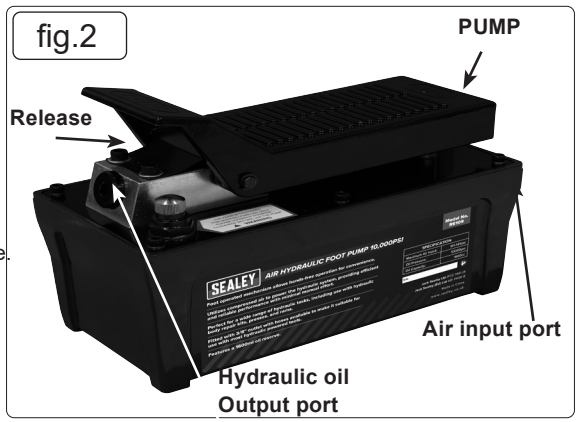
5.2. Connect the air supply line to the Air Hydraulic pump. Air supply should be 5-10 CFM at 100 PSI to obtain proper operating characteristics, in addition, the air line should be equipped with an air line filter.

**FOOT PEDAL OPERATE PUMPS:**

5.3. Depress the "Pump" end of pedal will pump hydraulic oil to the system.

5.4. Stop depressing the "Pump" or "Release" end will stop and hold the pressure.

5.5. Depress the "Release" end of pedal will release the pressure in the system.

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## 6. MAINTENANCE

**6.1. INSPECT THE CONNECTIONS**

Inspect hoses and connections and tighten connections as needed. Use non-hardening pipe thread compound when servicing connections.

**6.2. ADDING HYDRAULIC FLUID (FIG.2).**

6.2.1. De-pressurise and disconnect hydraulic hose from application.

6.2.2. With pump in its upright, horizontal position, remove the oil filler plug located on the top plate of the reservoir.

6.2.3. Use a small funnel to fill reservoir to within 3/4" (19mm) of the opening.

6.2.4. Wipe up any spilled fluid and reinstall the oil filler plug.

**NOTE:** Use only or other approved hydraulic oil. Never use brake fluid, transmission fluid, turbine oil, motor oil, alcohol, glycerin etc. Use of other than good quality hydraulic oil will void warranty and damage the pump, hose and application.

**6.3. CHANGING HYDRAULIC FLUID**

6.3.1. For best results, change fluid once a year.

6.3.2. Repeat step 6.2 above, and then pour used fluid into a sealable container.

6.3.3. Dispose of fluid in accordance with local regulations.

6.3.4. Fill with good quality hydraulic oil as recommended above. Reinstall vented oil filler plug.

**6.4. LUBRICATION**

6.4.1. Use a light machine oil to lubricate pivot points, hinges etc.

**6.5. STORAGE**

6.5.1. Depressurise and disconnect hydraulic hoses from application.

6.5.2. Clean the pump and hose and couplers.

6.5.3. Store in clean dry environment, avoid temperature extremes.

❑ **WARNING!** Repair foot pumps without special tools and knowledge may result in personal injury. Release pressure and disconnect hose(s) before making repair. Ensure that any faulty items should be repaired or replaced immediately by a Sealey qualified technician.

## 7. TROUBLESHOOTING

| Problem | Cause | Solution |
|---|---|---|
| Application will not extend, move or respond to pressurised fluid. | Overload condition<br>Release valve not closed. | Remedy overload condition.<br>Ensure release valve closed. |
| Application responds to pressurised fluid, but system does not maintain pressure. | Overload condition<br>Release valve not closed<br>Hydraulic unit malfunction. | Remedy overload condition.<br>Ensure release valve closed. |
| Application will not return fluid to pump (i.e. cylinder will not retract). | Malfunctioning coupler, damaged application.<br>Reservoir overfilled. | Secure load by other means.<br>Open release valve, depressurise pump and hose, remove coupler and/ or application, then renew or replace.<br>Secure load by other means. Open release valve, depressurise pump and hose, remove coupler and/ or application, then drain fluid to proper level |
| Application will not fully extend (cylinder or spreader). | Fluid level low. | Follow symptom 3 procedure for securing load, depressurising pump, remove application, then ensure proper fluid level. |
| Poor performance. | Air trapped in system. | Ensure proper fluid level Ensure vented oil filler plug let pressurised reservoir air<br>Escape (see **PREPARATION FOR USE**). |

**ENVIRONMENT PROTECTION**

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

REGISTER YOUR PURCHASE HERE

**Note**: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important**: No Liability is accepted for incorrect use of this product.

**Warranty**: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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