



## Models AC496 & AC497 AIR-OPERATED GREASE RATIO PUMP

### INSTRUCTIONS

Congratulations on your purchase of this premium Air-Operated Grease Pump which provides a continuous flow of grease at high pressure for fast, easy greasing.

Pump features a non-corroding 50:1 air motor and comes complete with a drum cover fitted with a plastic sleeve, rubber-lined follower plate, 7' (2.1m) of high pressure hose, Z-swivel and grease control valve as standard equipment.

**Available In:** 2 Models suitable for 25-50 lb/20 kg/5 gallon pails and larger model for use with 120 lb/50 kg/16 gallon grease pails.

**Delivery:** 1 lb/454 gms of NLGI No. 2 grease per minute.

#### SPECIFICATIONS:

Maximum Air Pressure: 125 PSI/8 BAR

Minimum Air Pressure: 60 PSI/4 BAR

Typical Air Consumption: 0.3 m<sup>3</sup> (9 CFM)/minute

Air Inlet: 1/4" NPT (Female)

Pump Ratio: 50:1 (grease discharge pressure is 50 times air pressure)

Grease Control valve/Threads: Up to 7500 PSI/517 BAR, 1/8" NPT (Female)

Hose Type/Threads: 1/4" NPT (Male)

Swivel Type/Threads: "Z" Type, 1/8" (Male) x 1/4" (Female) NPT

**Note:** This grease pump is recommended for use with grease up to and including NLGI No. 2. Heavy grade of grease or cold temperatures can result in operating difficulties.

#### ASSEMBLY:

**The unit contains air motor/suction tube assembly, drum cover fitted with a plastic sleeve by three 1/4" BSW screws, follower plate, high pressure hose fitted with Z-swivel & grease control valve.**

1. Slide the drum cover fitted with plastic sleeve over the suction tube.
2. Remove lid from grease container.
3. Place follower plate in grease container with follower handle facing upwards. Push follower down onto grease until some grease is forced through the rubber grommet.
4. Insert suction tube through rubber grommet of follower plate, and push drum cover/pump assembly down until drum cover seats firmly on top of grease container.
5. Screw in the 3 drum cover positioning thumb screws equally, by hand. The drum cover should be centrally located on the grease container.
6. Apply thread sealant on the end of the hose which is to be fitted on the pump outlet and screw into the pump outlet tightly. Screw the other end of the hose into the swivel of the inlet of grease control valve.
7. Connect the air-line to swivel type brass inlet. A quick connect auto shut-off type fitting is recommended.



8. Turn on your air supply and press reset button. Hold the grease control valve near waste container (to collect test grease) and squeeze trigger. The air motor will function and test grease will appear followed by air (in the high pressure grease hose), then start greasing. Let go of the trigger: the pump should stop. Check for any grease leaks at hose connections. Tighten the connections as required.

**Note:** A wire mesh strainer is located in the brass inlet. A micro-fine in-line air filter is recommended to ensure maximum efficiency of this pump.

## **OPERATION:**

**Observe all safety precautions and warnings when using this product.**

**a-** Before connecting the air supply check that all fittings have been tightly fastened and all hoses are checked for wear or damage.

**b-** Fully depress reset button, add air filter then connect air supply. The optimum air pressure range is 80 – 100 PSI/5.5-7.0 BAR

**c-** To grease, connect grease control valve to grease nipple and squeeze trigger. Air motor will operate and grease is pumped through the nipple. If the grease nipple is blocked, the air motor will stop. Do not remove the valve from the nipple, just squeeze the trigger on the gun three or four times.

**Note:** This unit pumps grease continuously at high pressure. Take care when lubricating grease points with seals or protective rubber covers. Too much grease can burst seals or rubber covers.

**d-** Remove coupler from grease nipple by first tilting (to release any pressure) then twist and pull motion

Note: Disconnect air supply then release grease pressure (squeeze the gun trigger till grease ceases to flow) at the end of the working day.

## **ROUTINE MAINTENANCE:**

**a-** Keep the pump, high pressure hose and air-line clean.

**b-** Every 2 weeks (or sooner if pump is used everyday)” apply a few drops of light oil to the air inlet of the pump.

**c-** Inspect your pump, high pressure hose and air-line weekly for any signs of deterioration or damage.

**d-** Check the top seal condition hole. Small quantity of grease indicates seal lubrication is O.K. A continuous “worm” of grease indicates a worn seal.

## **WARNING:**

- This is a high pressure grease pump. Because of the high working pressures developed by this pump, the possibility of fluid injection on the skin or an eye is a potential hazard.

- Never allow any part of the human body to come in front of or in direct contact with a material outlet. Never point the nozzle of the gun at yourself or anyone else.

- Most injections occur because of component rupture. Be certain that any and all system components will withstand the pressures being developed. Never exceed the pressure rating of any component in the system. Remember, fluid pressure generated is fifty times the air inlet pressure.

- Weak, worn or damaged hoses are also a hazard. Before each use check hoses for signs of wear, leaks or loose fittings. Tighten all fluid connections regularly and replace weak or damaged hose.

- If accidental injection should occur, seek immediate emergency medical attention. DO NOT try to treat the injury yourself. Be prepared to tell the doctor what fluid was accidentally injected.

- Do not use air pressure greater than 125 PSI/8 BAR

- Before attempting any maintenance or repairs of this product, disconnect air supply then squeeze gun trigger to release fluid pressure.