

# OPERATOR'S MANUAL

# 612722

INCLUDING: SERVICE KITS, GENERAL DESCRIPTION & TROUBLESHOOTING  
ALSO INCLUDE MANUALS: 662410-B BASIC PUMP MANUAL & S-636 GENERAL INFORMATION MANUAL (PN 97999-624).

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(REV. E) IPP/PSE

4-1/4" AIR MOTOR  
9:1 RATIO  
4" STROKE

## OIL SUPPLY PUMP 55 GALLON DRUM

**IMPORTANT: READ THIS MANUAL CAREFULLY BEFORE INSTALLING,  
OPERATING OR SERVICING THIS EQUIPMENT.**

### SERVICE KITS

- 61268 for repair of Air Motor section.
- 61053 for repair of entire pump.
- 65823 for repair of Base Packing.
- Use only genuine ARO® replacement parts to assure compatible pressure rating and longest service life.

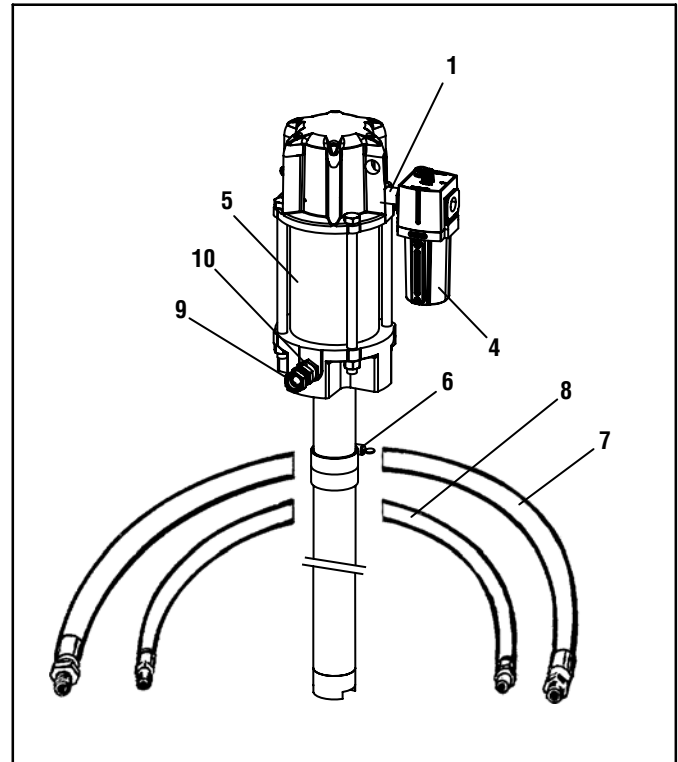
### GENERAL DESCRIPTION

This model is designed for high volume delivery of low viscosity fluids from standard containers. The model covered by this manual includes an outlet swivel, material supply hoses and airline lubricator. Material dispensing accessories and supply lines and fittings must be capable of withstanding pressures developed by the pump.

- The ARO® 9:1 ratio basic pump assembly consists of 4-1/4" air motor and two ball lower pump end.

**RATIO x REGULATED AIR PRESSURE TO AIR MOTOR = MAXIMUM FLUID PRESSURE.**

- The 9:1 ratio is an expression of the relationship between the air motor area and the lower pump end area. When 150 PSI (10 Bar) air pressure is supplied to the air motor, the lower pump end will develop a maximum of 1350 PSI (93 Bar) fluid pressure (at no flow) as the fluid control is opened, the flow rate will increase as the air motor cycle rate increases to keep up with the demand.



### AIR AND LUBE REQUIREMENTS

**⚠ WARNING HAZARDOUS PRESSURE.** Do not exceed maximum inlet air pressure of 150 psi (10 bar). Operating pump at higher pressure may cause pump damage and/or personal injury and/or property damage.

**⚠ WARNING** Refer to general information sheet for additional safety precautions and important information.

- Excessive air pressure will shorten the life of the pump.
- For maximum operating efficiency, the following air supply specifications should be maintained to this pump.
  - AIR PRESSURE - Up to 150 P.S.I. (10 Bar)
  - AIR FILTRATION - 50 micron
  - LUBRICATED AIR SUPPLY
  - AIR INLET SIZE - 1/2" NPTF

### ACCESSORIES LIST

Item	Description	Qty	Part No.
1	Nipple (1/2 x 1-1/8)	1	Y27-154-C
4	Lubricator ★	1	L36341-110
5	Basic Pump ★	1	662410-B
6	Bung Adapter Asm.	1	60870
(Wing Screw Y197-158-C, Adapter 60869)			
7	Material Hose	1	623501-8
8	Air Hose	1	621501-5
9	Swivel	1	75366
10	Bushing (Connects Swivel / Hose)	1	Y45-109-C

★ SEE OPERATOR'S MANUAL

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## AIR AND LUBRICATION CONT'D

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- Filtered and oiled air will allow the pump to operate more efficiently and yield a longer life to operating parts and mechanisms.
- Lack of or an excessive amount of lubrication will affect the performance and life of this pump. Use only recommended lubricants.
- Daily fill the air line lubricator reservoir with a good grade of S.A.E. No. 90W non-detergent gear oil, adjust to 1 to 2 drops per minute.
- If the pump is to be inoperative for more than a few hours at a time, disconnect the air supply and relieve all pressure from the system.

It is recommended that an oiler be installed in the air line as close as possible to the pump. This increases the service life of the pump by reducing wear of the motor internal parts.

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## TROUBLE SHOOTING

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### Pump operates but but dispenses little or no material.

- Check for adequate material supply.
- Check the 77006 foot valve assembly, look for an obstruction which would prevent the material from feeding into the suction tube.
- Look for foreign matter in the foot valve which may be preventing it from closing on downstroke of the piston.

### Pump does not operate.

- Check air pressure at the pump to insure the air line is not obstructed and air is not being supplied to the pump. Be careful and take safety precautions to avoid injury.
- Check for material flow at the pump outlet. Disconnect the air supply to the pump and detach the material hose at the swivel. **Remove slowly as pressure may be built up in pump.** Hold a rag at this point and apply air to the pump. If the pump now operates, there is an obstruction in the material line, reel, or control handle. If the pump will still not operate contact qualified service personnel or consult local dealer.