OPERATOR'S MANUAL

SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION, TROUBLESHOOTING INCLUDE MANUALS: 66243-X-B LOWER PUMP END (PN 97999-828) & S-632 GENERAL INFORMATION MANUAL (PN 97999-624)

650891-X47-B

650891-X-B RELEASED: 4-12-99 REVISED: 6-4-10 (REV. 02)

8" AIR MOTOR 44:1 RATIO 6" STROKE

EXTRUSION PUMP

CARBON STEEL

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

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

SERVICE KITS

- Use only genuine ARO® replacement parts to assure compatible pressure rating and longest service life.
- <u>66614</u> for repair of Air Motor section. Service Note: The Air Motor Service / Parts Manual is not shipped with the pump but it is included with each service kit. If this Service / Parts Information is needed, request the Air Motor Operator's Manual from ARO (manual 66523, PN 97999-107).
- <u>637071-X43-B</u> for repair of Lower Pump section. Refer to the chart on page 2 for description of -X4X options.

SPECIFICATIONS

Model Series (Refer to option chart)6 Type	
Ratio	44:1
Air Motor	66523
Motor Repair Kit	66614
Motor Diameter	8" (20.3 cm)
Stroke 6	6" (15.2 cm)
Air Inlet 3	3/4 - 14 n.p.t.f 1(f)
Air Exhaust 1	1-1/4 - 11-1/2 n.p.t.f 1(f)
Lower Pump End Series	66243-X47-B
Lower Pump Repair Kit	637071-X43-B
Material Outlet	1 - 11-1/2 n.p.t.f 1(f)
Weight	

PERFORMANCE

Air Inlet Pressure Range	0 - 120 p.s.i. (0 - 8.3 bar)
Fluid Pressure Range	0 - 5964 p.s.i. (0 - 411.3 bar)
Max. Rec'd Cycles / Minute	60
Displacement In ³ Per Cycle	12.5
Volume / Cycle	6.9 oz. (204.6 ml)
Cycles Per Gallon	
Flow @ 60 Cycles / Minute	3.2 g.p.m. (12.3 l.p.m.)
Noise Level @ 60 Psi - 40 Cpm ①	88.0 db(A)

① Tested with 92460 silencer installed.

@ The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (L_{Aeq}) to meet the intent of ANSI S1. 13-1971, CAGI-PNEUROP S5.1 using four microphone locations.



PUMP DATA

IMPORTANT

This is one of the four documents which support the pump. Replacement copies of these forms are available upon request.

- GENERAL INFORMATION INDUSTRIAL PISTON PUMPS 66243-X-B LOWER PUMP END OPERATOR'S MANUAL
- 66523 AIR MOTOR OPERATOR'S MANUAL

 INGERSOLL RAND COMPANY LTD

 209 NORTH MAIN STREET – BRYAN, OHIO 43506

 ③ (800) 495-0276 • FAX(800) 892-6276

 www.ingersollrandproducts.com



PUMP OPTION DESCRIPTION CHART



- can be used with a gravity feed single post lift as a topper type assembly or with a two post lift as a force feed type assembly. The lower pump is designed for easy priming and the double acting feature is standard in all ARO industrial pumps. Material is delivered to the pump discharge outlet on both the up and down stroke. The motor is connected to the lower pump end by a spacer section.
- This allows for lubrication of the upper packing gland and prevents motor contamination because of normal wear and eventual leakage through the material packing gland. Be sure the solvent cup is adequately filled with lubricant to protect the upper packings and insure longest service life.

TROUBLE SHOOTING

Pump problems can occur in either the Air Motor Section or the Lower Pump End Section. Use these basic guidelines to help determine which section is affected.

If the pump will not cycle.

- Be certain to first check for non-pump problems including kinked, restrictive or plugged inlet / outlet hose or dispensing device. Depressurize the pump system and clean out any obstructions in the inlet / outlet material lines.
- Refer to the motor manual for trouble shooting if the pump does not cycle and / or air leaks from the air motor.

If the pump cycles but does not deliver material.

Refer to the lower pump end manual for further trouble shooting.

Glass Filled PTFE (Lower)

HD SS W / HD Chrome Plating

PUMP CONNECTION - UPPER / LOWER

- Remove the three nuts from the three spacer rods (figure 1).
- Pull the air motor from the lower pump end until motor piston rod is in the "down" position and lower pump end rod is in "up" position.
- Remove the cotter pins and unthread piston rods from the connector



REASSEMBLY

- 1. Thread the connector to the pump motor piston rod until the hole thru the connector is aligned with the hole thru the piston rod.
- Assemble the cotter pin thru the hole and bend the ends of the pin 2. into the groove of the connector.
- Thread the connector to the lower pump piston rod until the hole thru 3 the connector is aligned with the hole thru the piston rod.
- Assemble the cotter pin thru the hole and bend the ends of the pin 4 into the groove of the connector.
- 5 Note: Heads and ends of cotter pins must not extend more than .125" beyond o.d. of connector.
- Reinstall the spacer rods to the pump motor. 6
- Bring the motor and lower pump together and retain with the three 7. nuts.

